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API 文档

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Funds Management APIs
DescribeAccountBalance

最近更新时间：2024-05-16 15:10:22

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to check the Tencent Cloud account balance.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeAccountBalance.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.

3. Output Parameters

Parameter Name	Type	Description
Balance	Integer	Available account balance in cents, which takes the same calculation rules as `RealBalance` , `CreditBalance` , and

		`RealCreditBalance` .
Uin	Integer	The UIN to query.
RealBalance	Float	Available account balance in cents, which takes the same calculation rules as `Balance` , `CreditBalance` , and `RealCreditBalance` .
CashAccountBalance	Float	Cash account balance in cents. Currently, this field is not applied.
IncomeIntoAccountBalance	Float	Income account balance in cents. Currently, this field is not applied.
PresentAccountBalance	Float	Present account balance in cents. Currently, this field is not applied.
FreezeAmount	Float	Frozen amount in cents.
OweAmount	Float	Overdue amount in cents, which is when the available credit balance is negative.
IsAllowArrears	Boolean	Whether overdue payments are allowed. Currently, this field is not applied.
IsCreditLimited	Boolean	Whether you have a credit limit. Currently, this field is not applied.
CreditAmount	Float	Credit limit in cents. Credit limit—available credit balance = consumption amount
CreditBalance	Float	Available credit balance in cents, which takes the same calculation rules as `Balance` , `RealBalance` , and `RealCreditBalance` .
RealCreditBalance	Float	Available account balance in cents, which takes the same calculation rules as `Balance` , `RealBalance` , and `CreditBalance` .
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Checking the account balance

Input Example

```
https://billing.tencentcloudapi.com/?Action=DescribeAccountBalance
&<Common request parameters>
```

Output Example


```
{
"Response": {
"Uin": "90961",
"RealBalance": 9647442,
"CashAccountBalance": 1299806668,
"IncomeIntoAccountBalance": 0,
"PresentAccountBalance": 209512,
"FreezeAmount": 1290368738,
"OweAmount": 0,
"RequestId": "1323",
"IsAllowArrears": true,
"IsCreditLimited": true,
"Balance": -6188426,
"CreditAmount": 200,
"CreditBalance": -6188226,
"RealCreditBalance": -6188226
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation	Operation failed.
FailedOperation.PayPriceError	Payment failed. Please contact Tencent Cloud to resolve this issue.
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
UnauthorizedOperation.CamNoAuth	The account does not have CAM permission.
UnsupportedOperation	Operation unsupported.

Order Management APIs
DescribeVoucherInfo

最近更新时间：2024-05-16 15:10:21

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to query vouchers.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeVoucherInfo.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Limit	Yes	Integer	The number of records per page. The default is 20, and the maximum is 1,000.
Offset	Yes	Integer	The page number the records start from. The default is 1.
Status	No	String	The voucher status. Valid values: `unUsed` , `used` , `delivered` , `cancel` , `overdue` .
VoucherId	No	String	The voucher ID.

CodeId	No	String	The voucher order ID.
ProductCode	No	String	The product code.
ActivityId	No	String	The campaign ID.
VoucherName	No	String	The voucher name.
TimeFrom	No	String	The start date of the voucher issuance, such as `2021-01-01` .
TimeTo	No	String	The end date of the voucher issuance, such as `2021-01-01` .
SortField	No	String	The field used to sort the records. Valid values: BeginTime, EndTime, CreateTime.
SortOrder	No	String	Whether to sort the records in ascending or descending order. Valid values: desc, asc.
PayMode	No	String	The payment mode. Valid values: `postPay` : pay-as-you-go; `prePay` : prepaid; `riPay` : reserved instance; empty or `*` : all. If this parameter is empty or `*` , `productCode` and `subProductCode` must also be empty.
PayScene	No	String	If `PayMode` is `postPay` , this parameter may be `spotpay` (spot instance) or `settle account` (regular pay-as-you-go). If `PayMode` is `prePay` , this parameter may be `purchase` , `renew` , or `modify` (downgrade/upgrade). If `PayMode` is `riPay` , this parameter may be `oneOffFee` (prepayment of reserved instance) or `hourlyFee` (hourly billing of reserved instance). `*` means to query vouchers that support all billing scenarios.
Operator	No	String	The operator. The default is the UIN of the current user.
VoucherMainType	No	String	The primary types of vouchers are has_price and no_price, which represent the cash voucher with a price and the cash voucher without a price respectively.
VoucherSubType	No	String	Voucher subtype: Discount is a discount voucher, and deduct is a deduction voucher.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The total number of vouchers.
TotalBalance	Integer	The total voucher balance. The value of this parameter is the total balance (USD, rounded to 8 decimal places) multiplied by 100,000,000.
VoucherInfos	Array of VoucherInfos	The voucher information. Note: This field may return `null`, indicating that no valid value was found.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying vouchers

This example shows you how to query vouchers.

Input Example

```
https://billing.tencentcloudapi.com/?Action=DescribeVoucherInfo
&Limit=10
&Offset=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "9988deda-d6b4-4c74-9bbf-b3f0cd4f5dba",
"TotalBalance": 42000000000,
"TotalCount": 2,
"VoucherInfos": [
{
"ApplicableProducts": {
"GoodsName": "All",
"PayMode": "*"
},
"Balance": 12000000000,
"BeginTime": "2023-01-10 14:42:17",
"EndTime": "2023-04-10 14:42:17",
```

```
"ExcludedProducts": [
{
"GoodsName": "Domains",
"PayMode": "*"
},
{
-
"PayMode": "*"
},
{
-
"PayMode": "*"
},
{
-
"PayMode": "*"
},
{
"GoodsName": "Savings Plan",
"PayMode": "*"
}
],
"NominalValue": 30000000000,
"OwnerUin": "100026601318",
"PayMode": "*",
"PayScene": "settle account",
"Status": "unUsed",
"VoucherId": "OZRCGNAV5AB9H9ECMP1VVP"
},
{
"ApplicableProducts": {
"GoodsName": "All",
"PayMode": "*"
},
"Balance": 30000000000,
"BeginTime": "2023-02-07 16:40:45",
"EndTime": "2023-05-08 16:40:45",
"ExcludedProducts": [
{
"GoodsName": "Domains",
"PayMode": "*"
},
{
-
"PayMode": "*"
},
{
```

```
-
"PayMode": "*"
},
{
-
"PayMode": "*"
},
{
"GoodsName": "Savings Plan",
"PayMode": "*"
}
],
"NominalValue": 30000000000,
"OwnerUin": "100026601318",
"PayMode": "*",
"PayScene": "settle account",
"Status": "unUsed",
"VoucherId": "OZRCGNAV8D9BMI9KMG1FIQ"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.InvalidAppId	Invalid App ID.
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InvalidParameter	Invalid parameter.
UnauthorizedOperation.CamNoAuth	The account does not have CAM permission.

DescribeVoucherUsageDetails

最近更新时间：2024-05-16 15:10:20

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to query voucher usage details.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeVoucherUsageDetails.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Limit	Yes	Integer	The number of records per page. The default is 20, and the maximum is 1,000.
Offset	Yes	Integer	The page number the records start from. The default is 1.
VoucherId	No	String	The voucher ID.
Operator	No	String	The operator. The default is the UIN of the current.

3. Output Parameters

Parameter Name	Type	Description
TotalCount	Integer	The total number of vouchers.
TotalUsedAmount	Integer	The total amount used. The value of this parameter is the total amount used (USD, rounded to 8 decimal places) multiplied by 100,000,000.
UsageRecords	Array of UsageRecords	The usage details. Note: This field may return `null` , indicating that no valid value was found.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying voucher usage details

This example shows you how to query voucher usage details.

Input Example

```
https://billing.tencentcloudapi.com/?Action=DescribeVoucherUsageDetails
&Limit=10
&Offset=1
&VoucherId="abc"
&Operator="abc"
&<Common request parameters>
```

Output Example

```
{
"Response": {
"TotalCount": "1",
"TotalUsedAmount": 18000000000,
"UsageRecords": [
{
"UsedAmount": 18000000000,
"UsedTime": "2021-01-01 00:00:00",
```

```
"UsageDetails": [
{
"ProductName": "Lighthouse",
"SubProductName": "Lighthouse (General - 2-core 2 GB - 50 GB - 500 GB)"
}
]
}
],
"RequestId": "76cf663e-f683-41b9-b44d-849123783bf4"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.InvalidAppId	Invalid App ID.
InternalError	Internal error.

InternalError.GatewayError	Gateway error.
InvalidParameter	Invalid parameter.
UnauthorizedOperation.CamNoAuth	The account does not have CAM permission.

Cost Management APIs
DescribeCostDetail

最近更新时间：2024-05-28 17:27:13

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to query consumption details.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeCostDetail.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
Limit	Yes	Integer	The number of entries returned at a time. The maximum value is `100`.
Offset	Yes	Integer	Offset
BeginTime	No	Timestamp	Cycle start time in the format of yyyy-mm-dd hh:ii:ss. Either Month or BeginTime&EndTime must be entered, and if this field is present, Month becomes invalid. BeginTime and EndTime must be entered together, and must be in the same month. Cross-month retrieval is not currently supported. Data

			retrievable is the data after cost analysis is activated and within the past 24 months.
EndTime	No	Timestamp	Cycle end time in the format of yyyy-mm-dd hh:ii:ss. Either Month or BeginTime&EndTime must be entered, and if this field is present, Month becomes invalid. BeginTime and EndTime must be entered together, and must be in the same month. Cross-month retrieval is not currently supported. Data retrievable is the data after cost analysis is activated and within the past 24 months.
NeedRecordNum	No	Integer	Whether the total number of records in the list is needed, for frontend pagination1: needed, 0: not needed
Month	No	String	Month, in the format of yyyy-mm. Either Month or BeginTime&EndTime must be entered, and if BeginTime&EndTime is entered, Month becomes invalid. It cannot be earlier than the month when cost analysis is activated. Data of up to 24 months can be retrieved.
ProductCode	No	String	Used to query information of a specified product (currently not available)
PayMode	No	String	Payment mode. Options include prePay and postPay.
ResourceId	No	String	Used to query information of a specified resource

3. Output Parameters

Parameter Name	Type	Description
DetailSet	Array of CostDetail	Consumption details Note: This field may return null, indicating that no valid values can be obtained.
Total	Integer	Record countNote: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying consumption details

Input Example

```
https://billing.tencentcloudapi.com/?Action=DescribeCostDetail
&Offset=0
&Limit=10
&BeginTime=2018-11-01 00:00:00
&EndTime=2018-11-01 23:59:59
&NeedRecordNum=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"DetailSet": [
{
"PayerUin": "abc",
"BusinessCodeName": "abc",
"ProductCodeName": "abc",
"PayModeName": "abc",
"ProjectName": "abc",
"RegionName": "abc",
"ZoneName": "abc",
"ResourceId": "abc",
"ResourceName": "abc",
"ActionTypeName": "abc",
"OrderId": "abc",
"BillId": "abc",
"FeeBeginTime": "abc",
"FeeEndTime": "abc",
"ComponentSet": [
{
"ComponentCodeName": "abc",
"ItemCodeName": "abc",
"SinglePrice": "abc",
"PriceUnit": "abc",
"UsedAmount": "abc",
"UsedAmountUnit": "abc",
"Cost": "abc",
"Discount": "abc",
"RealCost": "abc",
"VoucherPayAmount": "abc",
"CashPayAmount": "abc",
"IncentivePayAmount": "abc"
```

```
}
],
"ProductCode": "abc"
}
],
"Total": 1,
"RequestId": "abc"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.

DescribeCostSummaryByProduct

最近更新时间：2024-05-28 17:27:12

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to obtain consumption details summarized by product.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeCostSummaryByProduct.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as `EndTime`. The query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as `BeginTime`. The query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.

Limit	Yes	Integer	Data quantity per fetch. The maximum value is 100.
Offset	Yes	Integer	Offset, which starts from 0 by default
PayerUin	No	String	UIN of the user querying the bill data
NeedRecordNum	No	Integer	Whether to return the record count. 0 for no, 1 for yes. Default is no.

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Data readiness, 0 for not ready, 1 for ready
Total	ConsumptionSummaryTotal	Consumption details
Data	Array of ConsumptionBusinessSummaryDataItem	Consumption details summarized by productNote: This field may return null, indicating that no valid values can be obtained.
RecordNum	Integer	Record count. The system returns null when NeedRecordNum is 0.Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Obtaining consumption details summarized by product

This example shows you how to obtain consumption details summarized by product.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
```

```
Content-Type: application/json
X-TC-Action: DescribeCostSummaryByProduct
<Common request parameters>

{
"NeedRecordNum": "1",
"EndTime": "2018-11",
"Limit": "1",
"BeginTime": "2018-11",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"Ready": 1,
"RecordNum": 2,
"Total": {
"RealTotalCost": "220.67"
},
"Data": [
{
"BusinessCode": "p_cvm",
"BusinessCodeName": " Cloud Virtual Machine ",
"RealTotalCost": "220.67",
"Trend": {
"Type": "postPay",
"Value": "test"
}
}
],
"RequestId": "59a408bc-5d95-4d40-bf21-58e5e8d48dd0"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError.GatewayError	Gateway error.

DescribeCostSummaryByProject

最近更新时间：2024-05-28 17:27:12

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to obtain consumption details summarized by project.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeCostSummaryByProject.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as `EndTime`. The query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as `BeginTime`. The query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.

Limit	Yes	Integer	Data quantity per fetch. The maximum value is `100`.
Offset	Yes	Integer	Offset, which starts from 0 by default
PayerUin	No	String	UIN of the user querying the bill data
NeedRecordNum	No	Integer	Whether to return the record count. 0 for no, 1 for yes. Default is no.

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Data readiness, 0 for not ready, 1 for ready
Total	ConsumptionSummaryTotal	Consumption details
Data	Array of ConsumptionProjectSummaryDataItem	Consumption details summarized by business
RecordNum	Integer	Record count. The system returns null when NeedRecordNum is 0.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Obtaining consumption details summarized by project

This example shows you how to obtain consumption details summarized by project.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCostSummaryByProject
<Common request parameters>
```

```
{
"NeedRecordNum": "1",
"EndTime": "2018-11",
"Limit": "1",
"BeginTime": "2018-11",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"Ready": 1,
"Total": {
"RealTotalCost": "abc"
},
"Data": [
{
"ProjectId": "abc",
"ProjectName": "abc",
"RealTotalCost": "abc",
"Trend": {
"Type": "abc",
"Value": "abc"
},
"Business": [
{
"BusinessCode": "abc",
"BusinessCodeName": "abc",
"RealTotalCost": "abc",
"Trend": {
"Type": "abc",
"Value": "abc"
},
"CashPayAmount": "abc",
"IncentivePayAmount": "abc",
"VoucherPayAmount": "abc",
"TransferPayAmount": "abc"
}
],
"CashPayAmount": "abc",
"IncentivePayAmount": "abc",
"VoucherPayAmount": "abc",
"TransferPayAmount": "abc"
}
```

```
],
"RecordNum": 1,
"RequestId": "abc"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

DescribeCostSummaryByRegion

最近更新时间：2024-05-28 17:27:11

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to obtain consumption details summarized by region.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeCostSummaryByRegion.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as `EndTime`. The query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as `BeginTime`. The query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.

Limit	Yes	Integer	Data quantity per fetch. The maximum value is `100`.
Offset	Yes	Integer	Offset, which starts from 0 by default
PayerUin	No	String	UIN of the user querying the bill data
NeedRecordNum	No	Integer	Whether to return the record count. 0 for no, 1 for yes. Default is no.

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Data readiness, 0 for not ready, 1 for ready
Total	ConsumptionSummaryTotal	Consumption details
Data	Array of ConsumptionRegionSummaryDataItem	Consumption details summarized by region
RecordNum	Integer	Record count. The system returns null when NeedRecordNum is 0.Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Obtaining consumption details summarized by region

This example shows you how to obtain consumption details summarized by region.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCostSummaryByRegion
```

```
<Common request parameters>

{
"NeedRecordNum": "1",
"EndTime": "2018-11",
"Limit": "1",
"BeginTime": "2018-11",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"Ready": 1,
"RecordNum": 0,
"Total": {
"RealTotalCost": "91.04"
},
"Data": [
{
"RegionId": "18",
"RegionName": "Asia Pacific (Seoul)",
"RealTotalCost": "67.00",
"CashPayAmount": "66.99654091",
"VoucherPayAmount": "0.00000000",
"IncentivePayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"Trend": {
"Type": "none",
"Value": null
},
"Business": [
{
"BusinessCode": "p_cos",
"BusinessCodeName": "Cloud Object Storage",
"RegionName": "Asia Pacific (Seoul)",
"RealTotalCost": "66.99654091",
"CashPayAmount": "66.99654091",
"IncentivePayAmount": "0.00000000",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"Trend": {
"Type": "none",
"Value": null
}
```

```
}
]
}
],
"RequestId": "cdf3ef28-5ec7-4915-9cc8-a07210dc1f28"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

DescribeCostSummaryByResource

最近更新时间：2024-05-28 17:27:10

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to obtain consumption details summarized by resource.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeCostSummaryByResource.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as EndTime. The query period must start and end on the same month and the query result returned will be of the entire month. For example, if both BeginTime and EndTime are 2018-09, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as BeginTime. The query period must start and end on the same month and the query result returned will be of the entire month. For example, if both BeginTime and EndTime are 2018-09, the

			data returned will be for the entire month of September 2018.
Limit	Yes	Integer	Data quantity per fetch. The maximum value is 100.
Offset	Yes	Integer	Offset, which starts from 0 by default
PayerUin	No	String	UIN of the user querying the bill data
NeedRecordNum	No	Integer	Whether to return the record count. 0 for no, 1 for yes. Default is no.
NeedConditionValue	No	Integer	Whether to return filter criteria. 0 for no, 1 for yes. Default is no.
Conditions	No	Conditions	Filter criteria. It only supports ResourceKeyword (resource keyword, which supports fuzzy query by resource ID or resource name), ProjectIds (project ID), RegionIds (region ID), PayModes (payment mode, prePay or postPay), HideFreeCost (whether to hide zero-amount transactions, 0 or 1), and OrderByCost (sorting rule by fees, desc or asc).

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Data readiness, 0 for not ready, 1 for ready
Total	ConsumptionSummaryTotal	Consumption detailsNote: This field may return null, indicating that no valid values can be obtained.
ConditionValue	ConsumptionResourceSummaryConditionValue	Filter criteria Note: This field may return null, indicating that no valid values can be obtained.
RecordNum	Integer	Record countNote: This field may return null, indicating that no valid values can be obtained.
Data	Array of	Resource consumption detailsNote: This

	ConsumptionResourceSummaryDataItem	field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Obtaining consumption details summarized by resource

This example shows you how to obtain consumption details summarized by resource.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCostSummaryByResource
<Common request parameters>

{
"EndTime": "2018-11",
"Limit": "1",
"BeginTime": "2018-11",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"Ready": 1,
"Total": {
"RealTotalCost": "abc"
},
"ConditionValue": {
"Business": [
{
"BusinessCode": "abc",
"BusinessCodeName": "abc"
```

```
}
],
"Project": [
{
"ProjectId": "abc",
"ProjectName": "abc"
}
],
"Region": [
{
"RegionId": "abc",
"RegionName": "abc"
}
],
"PayMode": [
{
"PayMode": "abc",
"PayModeName": "abc"
}
]
},
"RecordNum": 1,
"Data": [
{
"ResourceId": "abc",
"ResourceName": "abc",
"RealTotalCost": "abc",
"CashPayAmount": "abc",
"ProjectId": "abc",
"ProjectName": "abc",
"RegionId": "abc",
"RegionName": "abc",
"PayMode": "abc",
"PayModeName": "abc",
"BusinessCode": "abc",
"BusinessCodeName": "abc",
"ConsumptionTypeName": "abc",
"RealCost": "abc",
"FeeBeginTime": "abc",
"FeeEndTime": "abc",
"DayDiff": "abc",
"DailyTotalCost": "abc",
"OrderId": "abc",
"VoucherPayAmount": "abc",
"IncentivePayAmount": "abc",
"TransferPayAmount": "abc",
"PayerUin": "abc",
```

```
"OwnerUin": "abc",
"OperateUin": "abc",
"ProductCode": "abc",
"ProductCodeName": "abc",
"RegionType": "abc",
"RegionTypeName": "abc",
"Extend1": "abc",
"Extend2": "abc",
"Extend3": "abc",
"Extend4": "abc",
"Extend5": "abc",
"InstanceType": "abc",
"InstanceTypeName": "abc",
"PayTime": "abc",
"ZoneName": "abc",
"ComponentConfig": "abc"
}
],
"RequestId": "abc"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError.GatewayError	Gateway error.

DescribeCostExplorerSummary

最近更新时间：2024-05-16 15:10:23

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to view cost analysis details.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeCostExplorerSummary.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The start time of the period in the format of yyyy-mm-dd hh:ii:ss.
EndTime	Yes	String	The end time of the period in the format of yyyy-mm-dd hh:ii:ss.
BillType	Yes	String	Bill type: 1-cost bill, 2-consumption bill
PeriodType	Yes	String	Statistical period: day-day, month-month;
Dimensions	Yes	String	Classification dimension (data aggregation

			dimension). Query classification dimension. (Use classification dimension code input parameter.) Input parameter enumeration value:default = Total only feeType = Fee typebillType = Bill typebusiness = Product product = Sub-productregion=Region zone = Availability zoneactionType = Transaction typepayMode = Billing modetags = Tagproject = ProjectpayerUin = Payer accountownerUin = User account
FeeType	Yes	String	Fee type: cost-total cost, totalCost-original price cost
PageSize	Yes	Integer	Quantity. The maximum value per page is 100.
PageNo	Yes	Integer	Starting page, where PageNo=1 indicates the first page, PageNo=2 indicates the second page, and so on.
TagKeyStr	No	String	Cost allocation tag value
NeedConditionValue	No	String	Whether the filter box is needed: 1- indicates it is needed, 0- indicates it is not needed. If it is not specified, it is not required by default.
Conditions	No	AnalyseConditions	Filter parameters

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Number of data entries Note: This field may return null, indicating that no valid values can be obtained.
Header	AnalyseHeaderDetail	Header informationNote: This field may return null, indicating that no valid values can be obtained.
Detail	Array of AnalyseDetail	Data detailsNote: This field may return null, indicating that no valid values can be obtained.
TotalDetail	AnalyseDetail	Data amountNote: This field may return null, indicating that no

		valid values can be obtained.
ConditionValue	AnalyseConditionDetail	Filter boxNote: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Monthly query cost analysis APIs

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeCostExplorerSummary
<Common request parameters>{
"Dimensions": "business",
"PeriodType": "month",
"FeeType": "cost",
"BillType": "1",
"BeginTime": "2023-12-31 00:00:00",
"EndTime": "2024-01-07 23:00:00",
"PageSize": 100,
"PageNo": 1
}
```

Output Example

```
{
"Response": {
"Total": 21,
"Header": {
"Name": "Product",
"Total": "Total",
"HeadDetail": [
{
"Name": "2023-12-01 00:00:00"
},
{
```

```
"Name": "2023-12-02 00:00:00"
}
]
},
"ConditionValue": {},
"Detail": [
{
"Name": "Cloud Virtual Machine CVM",
"Total": "211.52000096",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "211.52000048"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "0.00000048"
}
]
},
{
"Name": "Elastic MapReduce",
"Total": "169.55291616",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "84.77645808"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "84.77645808"
}
]
},
{
"Name": "T-Sec-Cloud Workload Protection (CWP)",
"Total": "104.40081600",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "52.20040800"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "52.20040800"
}
]
```

```
},
{
"Name": "Billing test product",
"Total": "100.00000000",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "100.00000000"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "0"
}
]
},
{
"Name": "TencentDB for MySQL",
"Total": "38.77000000",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "0.00000000"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "38.77000000"
}
]
},
{
"Name": "Face recognition",
"Total": "36.00000000",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "0"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "36.00000000"
}
]
},
{
"Name": "Tencent Kubernetes Engine (TKE)",
"Total": "19.00184160",
"TimeDetail": [
```

```
{
"Time": "2023-12-01 00:00:00",
"Money": "9.50092080"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "9.50092080"
}
]
},
{
"Name": "NAT gateway",
"Total": "16.28275200",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "8.14137600"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "8.14137600"
}
]
},
{
"Name": "BM EIP",
"Total": "9.60076800",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "4.80038400"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "4.80038400"
}
]
},
{
"Name": "Saving plan",
"Total": "7.20000000",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "3.60000000"
},
{
```

```
"Time": "2023-12-02 00:00:00",
"Money": "3.60000000"
}
]
}
],
"TotalDetail": {
"Name": "Total",
"Total": "724.5825514",
"TimeDetail": [
{
"Time": "2023-12-01 00:00:00",
"Money": "480.64255140"
},
{
"Time": "2023-12-02 00:00:00",
"Money": "243.94000000"
}
]
},
"RequestId": "18619d53-8b77-45f2-a685-ac4490e74c06"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

There is no error code related to the API business logic. For other error codes, please see Common Error Codes.

Making API Requests
Request Structure

最近更新时间：2024-05-16 15:09:51

1. Service Address

The API supports access from either a nearby region (at billing.tencentcloudapi.com) or a specified region (at billing.ap-guangzhou.tencentcloudapi.com for Guangzhou, for example).

We recommend using the domain name to access the nearest server. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, the result is the same as that of specifying the region in the domain like "billing.ap-guangzhou.tencentcloudapi.com".

Note: For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

Hosted region	Domain name
Local access region (recommended, only for non-financial availability zones)	billing.tencentcloudapi.com
South China (Guangzhou)	billing.ap-guangzhou.tencentcloudapi.com
East China (Shanghai)	billing.ap-shanghai.tencentcloudapi.com
North China (Beijing)	billing.ap-beijing.tencentcloudapi.com
Southwest China (Chengdu)	billing.ap-chengdu.tencentcloudapi.com
Southwest China (Chongqing)	billing.ap-chongqing.tencentcloudapi.com
Hong Kong, Macao, Taiwan (Hong Kong, China)	billing.ap-hongkong.tencentcloudapi.com
Southeast Asia (Singapore)	billing.ap-singapore.tencentcloudapi.com

Southeast Asia (Bangkok)	billing.ap-bangkok.tencentcloudapi.com
South Asia (Mumbai)	billing.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	billing.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	billing.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	billing.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	billing.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	billing.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	billing.eu-frankfurt.tencentcloudapi.com
Europe (Moscow)	billing.eu-moscow.tencentcloudapi.com

2. Communications Protocol

All the Tencent Cloud APIs communicate via HTTPS, providing highly secure communication tunnels.

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

- application/json (recommended). The TC3-HMAC-SHA256 signature algorithm must be used.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature algorithm must be used.
- multipart/form-data (only supported by certain APIs). You must use TC3-HMAC-SHA256 to calculate the signature.

The size of a GET request packet is up to 32 KB. The size of a POST request is up to 1 MB when the HmacSHA1 or HmacSHA256 signature algorithm is used, and up to 10 MB when TC3-HMAC-SHA256 is used.

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

最近更新时间：2024-05-16 15:09:51

Common parameters are used for all APIs authenticating requestors. Common parameters must be included in all API requests, and they will not be described in individual API documents.

The exact contents of the common parameters will vary depending on the version of the signature method you use.

Common parameters for Signature Algorithm v3

When the TC3-HMAC-SHA256 algorithm is used, the common parameters should be uniformly placed in the HTTP request header, as shown below:

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter `Action` in the input parameters in r documentation. For example, the API for querying the CVM instance list i `DescribeInstances` .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data y work with belongs. For values supported for an API, see the description c parameter `Region` in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relate documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request for example, 1529223702. Note: If the difference between the UNIX times server time is greater than 5 minutes, a signature expiration error may oc
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the c parameter `Version` in the API documentation. For example, the versi 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date i UTC time, and this value must match the value of X-TC-Timestamp (a co

			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencen refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication informatic type and host are the required headers; - Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a tempor can obtain the temporary key and token by calling a CAM API. No token i a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/20
18-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993
f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
```

The following example shows you how to structure an HTTP POST (application/json) request:

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

{"Offset":0,"Limit":10}
```

Example of an HTTP POST (multipart/form-data) request structure (only supported by specific APIs):

```
https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
Content-Type: multipart/form-data; boundary=58731222010402
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

--58731222010402
Content-Disposition: form-data; name="Offset"

0
--58731222010402
Content-Disposition: form-data; name="Limit"

10
--58731222010402--
```

Common parameters for Signature Algorithm v1

To adopt the HmacSHA1 and HmacSHA256 signature methods, common parameters must be put into the request string, as shown below:

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter `Action` in the input parameters in related API documentation. For example, the API for querying the CVM instance list is `DescribeInstances`.
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter `Region` in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.

Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with `Timestamp` to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).
Signature	String	Yes	Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.
Version	String	Yes	API version of the action. For the valid values, see the description of the common input parameter `Version` in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE

Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded
```

Example of an HTTP POST request structure:

```
https://cvm.tencentcloudapi.com/

Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded

Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=
1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Region List

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

Region	Value
Southeast Asia (Singapore)	ap-singapore

Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the Tencent Cloud Console.
2. Go to the TencentCloud API Key console page.
3. On the TencentCloud API Key page, click **Create** to create a SecretId/SecretKey pair.

Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including Python, Java, PHP, Go, NodeJS and .NET. In addition, it provides API Explorer which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats,

Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information. The POST method is recommended, as there is no difference in the results of both the methods, but the GET method only supports request packets up to 32 KB.

The following uses querying the list of CVM instances in the Guangzhou region as an example to describe the steps of signature splicing. We chose this API because:

1. CVM is activated by default, and this API is often used;
2. It is read-only and does not change the status of existing resources;
3. It covers many types of parameters, which allows it to be used to demonstrate how to use arrays containing data structures.

In the example, we try to choose common parameters and API parameters that are prone to mistakes. When you actually call an API, please use parameters based on the actual conditions. The parameters vary by API. Do not copy the parameters and values in this example.

Assuming that your SecretId and SecretKey are `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******` and `Gu5t9xGARNpq86cd98joQYCN3*******`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3******
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e4
1437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

Concatenate the canonical request string (CanonicalRequest) in the following pseudocode format:

```
CanonicalRequest =
HTTPRequestMethod + '\n' +
CanonicalURI + '\n' +
```

```
CanonicalQueryString + '\n' +
CanonicalHeaders + '\n' +
SignedHeaders + '\n' +
HashedRequestPayload
```

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses `POST` .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty st “” for POST requests, and is the string after the question mark (?) for GET requests. Fo example: Limit=10&Offset=0。 Note: `CanonicalQueryString` must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All speci characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of `host` `content-type` . Custom headers can be added to participate in the signature proce improve the uniqueness and security of the request. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase with the lead and trailing spaces removed, so they are concatenated in the format of key:value\n format; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` . Note: `content-type` must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the sever will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the heac in CanonicalHeaders). `Content-type` and `host` are required headers. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is `content-type;host`

Field Name	Explanation
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as `{"Limit": 1, "Filter` `[{"Values": ["unnamed"], "Name": "instance-name"}]}` in this exampl The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the pay of the HTTP request, performing hexadecimal encoding, and finally converting the enco string to lowercase letters. For GET requests, `RequestPayload` is always an empt string. The calculation result in this example is `99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4`

According to the rules above, the `CanonicalRequest` string obtained in the example is as follows:

```
POST
/
content-type:application/json; charset=utf-8
host:cvm.tencentcloudapi.com
content-type;host
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
```

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

```
StringToSign =
Algorithm + \n +
RequestTimestamp + \n +
CredentialScope + \n +
HashedCanonicalRequest
```

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always `TC3-HMAC-SHA256` .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter `X-TC-Timestamp` ir request header, which is the UNIX timestamp of the current time in seconds, such as `1551113065` in this example.

Field Name	Explanation
CredentialScope	Scope of the credential in the format of `Date/service/tc3_request`, including date, requested service and termination string (tc3_request). **`Date` is a date in UTC time, whose value should match the UTC date converted by the common parameter `X-TC-Timestamp`;** `service` is the product name, which should match the domain name of the product called. The calculation result in this example is `2019-02-25/cvm/tc3_request`.
HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequ The calculation result in this example is `2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad`

Note:

1. Date has to be calculated from the timestamp "X-TC-Timestamp" and the time zone is UTC+0. If you add the system's local time zone information (such as UTC+8), calls can succeed both day and night but will definitely fail at 00:00. For example, if the timestamp is 1551113065 and the time in UTC+8 is 2019-02-26 00:44:25, the UTC+0 date in the calculated Date value should be 2019-02-25 instead of 2019-02-26.
2. Timestamp must be the same as your current system time, and your system time and standard time must be synced; if the difference between Timestamp and your current system time is larger than five minutes, the request will fail. If your system time is out of sync with the standard time for a while, the request will fail and return a signature expiration error.

According to the preceding rules, the string to be signed obtained in the example is as follows:

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

1) Calculate the derived signature key with the following pseudocode:

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3*******"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
```

```
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

Field Name	Explanation
SecretKey	The original SecretKey, i.e., `Gu5t9xGARNpq86cd98joQYCN3*******` .
Date	The Date field information in `Credential` , such as `2019-02-25` in this example.
Service	Value in the Service field in `Credential` , such as `cvm` in this example.

2) Calculate the signature with the following pseudocode:

```
Signature = HexEncode(HMAC_SHA256(SecretSigning, StringToSign))
```

4. Concatenating the Authorization

The Authorization is concatenated as follows:

```
Authorization =
Algorithm + ' ' +
'Credential=' + SecretId + '/' + CredentialScope + ', ' +
'SignedHeaders=' + SignedHeaders + ', ' +
'Signature=' + Signature
```

Field Name	Explanation
Algorithm	Signature algorithm, which is always `TC3-HMAC-SHA256` .
SecretId	The SecretId in the key pair, i.e., `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******` .
CredentialScope	Credential scope (see above). The calculation result in this example is `2019-02-25/cvm/tc3_request` .
SignedHeaders	Header information for signature calculation (see above), such as `content-type;host` in this example.
Signature	Signature value. The calculation result in this example is `c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff` .

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc
3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301
```

```
bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou
{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See SDK Center for more information. Currently, the following programming languages are supported:

- Python
- Java
- PHP
- Go
- NodeJS
- .NET

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGeI%3D&Timestamp=1465185768&Version=2017-03-12.

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.security.MessageDigest;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;
public class TencentCloudAPITC3Demo {
private final static Charset UTF8 = StandardCharsets.UTF_8;
private final static String SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
private final static String CT_JSON = "application/json; charset=utf-8";
public static byte[] hmac256(byte[] key, String msg) throws Exception {
Mac mac = Mac.getInstance("HmacSHA256");
SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
mac.init(secretKeySpec);
return mac.doFinal(msg.getBytes(UTF8));
}
public static String sha256Hex(String s) throws Exception {
MessageDigest md = MessageDigest.getInstance("SHA-256");
byte[] d = md.digest(s.getBytes(UTF8));
return DatatypeConverter.printHexBinary(d).toLowerCase();
}
public static void main(String[] args) throws Exception {
String service = "cvm";
String host = "cvm.tencentcloudapi.com";
String region = "ap-guangzhou";
String action = "DescribeInstances";
String version = "2017-03-12";
String algorithm = "TC3-HMAC-SHA256";
String timestamp = "1551113065";
//String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
```

```
// Pay attention to the time zone; otherwise, errors may occur
sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));
// ************* Step 1: Concatenate the CanonicalRequest string *************
String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + host + "\n";
String signedHeaders = "content-type;host";
String payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}";
String hashedRequestPayload = sha256Hex(payload);
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canoni
calQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);
// ************* Step 2: Concatenate the string to sign *************
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = sha256Hex(canonicalRequest);
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope +
"\n" + hashedCanonicalRequest;
System.out.println(stringToSign);
// ************* Step 3: Calculate the signature *************
byte[] secretDate = hmac256(("TC3" + SECRET_KEY).getBytes(UTF8), date);
byte[] secretService = hmac256(secretDate, service);
byte[] secretSigning = hmac256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(hmac256(secretSigning, string
ToSign)).toLowerCase();
System.out.println(signature);
// ************* Step 4: Concatenate the Authorization *************
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
System.out.println(authorization);
TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);
headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);
StringBuilder sb = new StringBuilder();
sb.append("curl -X POST https://").append(host)
.append(" -H \"Authorization: ").append(authorization).append("\"")
.append(" -H \"Content-Type: application/json; charset=utf-8\"")
```

```
.append(" -H \"Host: ").append(host).append("\"")
.append(" -H \"X-TC-Action: ").append(action).append("\"")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\"")
.append(" -H \"X-TC-Version: ").append(version).append("\"")
.append(" -H \"X-TC-Region: ").append(region).append("\"")
.append(" -d '").append(payload).append("'");
System.out.println(sb.toString());
}
}
```

Python

```
# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime
# Key Parameters
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcfromtimestamp(timestamp).strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Name": "instance-name", "Values": ["unnamed"
]}]}
# ************* Step 1: Concatenate the CanonicalRequest string *************
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +
canonical_querystring + "\n" +
canonical_headers + "\n" +
signed_headers + "\n" +
hashed_request_payload)
print(canonical_request)
```

```
# ************* Step 2: Concatenate the string to sign *************
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).hexd
igest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)
# ************* Step 3: Calculate the Signature *************
# Function for computing signature digest
def sign(key, msg):
return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha2
56).hexdigest()
print(signature)
# ************* Step 4: Concatenate the Authorization *************
authorization = (algorithm + " " +
"Credential=" + secret_id + "/" + credential_scope + ", " +
"SignedHeaders=" + signed_headers + ", " +
"Signature=" + signature)
print(authorization)
print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + host + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + "'")
```

Golang

```
package main
import (
"crypto/hmac"
"crypto/sha256"
"encoding/hex"
"fmt"
"time"
)
func sha256hex(s string) string {
```

```
b := sha256.Sum256([]byte(s))
return hex.EncodeToString(b[:])
}
func hmacsha256(s, key string) string {
hashed := hmac.New(sha256.New, []byte(key))
hashed.Write([]byte(s))
return string(hashed.Sum(nil))
}
func main() {
secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
host := "cvm.tencentcloudapi.com"
algorithm := "TC3-HMAC-SHA256"
service := "cvm"
version := "2017-03-12"
action := "DescribeInstances"
region := "ap-guangzhou"
//var timestamp int64 = time.Now().Unix()
var timestamp int64 = 1551113065
// step 1: build canonical request string
httpRequestMethod := "POST"
canonicalURI := "/"
canonicalQueryString := ""
canonicalHeaders := "content-type:application/json; charset=utf-8\n" + "host:" +
host + "\n"
signedHeaders := "content-type;host"
payload := `{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}`
hashedRequestPayload := sha256hex(payload)
canonicalRequest := fmt.Sprintf("%s\n%s\n%s\n%s\n%s\n%s",
httpRequestMethod,
canonicalURI,
canonicalQueryString,
canonicalHeaders,
signedHeaders,
hashedRequestPayload)
fmt.Println(canonicalRequest)
// step 2: build string to sign
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)
hashedCanonicalRequest := sha256hex(canonicalRequest)
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",
algorithm,
timestamp,
credentialScope,
hashedCanonicalRequest)
fmt.Println(string2sign)
```

```
// step 3: sign string
secretDate := hmacsha256(date, "TC3"+secretKey)
secretService := hmacsha256(service, secretDate)
secretSigning := hmacsha256("tc3_request", secretService)
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))
fmt.Println(signature)
// step 4: build authorization
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%
s",
algorithm,
secretId,
credentialScope,
signedHeaders,
signature)
fmt.Println(authorization)
curl := fmt.Sprintf(`curl -X POST https://%s\
-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"\
-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}
```

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";
// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:".$hos
t."\n";
$signedHeaders = "content-type;host";
```

```
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod."\n"
.$canonicalUri."\n"
.$canonicalQueryString."\n"
.$canonicalHeaders."\n"
.$signedHeaders."\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;
// step 2: build string to sign
$date = gmdate("Y-m-d", $timestamp);
$credentialScope = $date."/".$service."/tc3_request";
$hashedCanonicalRequest = hash("SHA256", $canonicalRequest);
$stringToSign = $algorithm."\n"
.$timestamp."\n"
.$credentialScope."\n"
.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;
// step 3: sign string
$secretDate = hash_hmac("SHA256", $date, "TC3".$secretKey, true);
$secretService = hash_hmac("SHA256", $service, $secretDate, true);
$secretSigning = hash_hmac("SHA256", "tc3_request", $secretService, true);
$signature = hash_hmac("SHA256", $stringToSign, $secretSigning);
echo $signature.PHP_EOL;
// step 4: build authorization
$authorization = $algorithm
." Credential=".$secretId."/".$credentialScope
.", SignedHeaders=content-type;host, Signature=".$signature;
echo $authorization.PHP_EOL;
$curl = "curl -X POST https://".$host
.' -H "Authorization: '.$authorization.'"'
.' -H "Content-Type: application/json; charset=utf-8"'
.' -H "Host: '.$host.'"'
.' -H "X-TC-Action: '.$action.'"'
.' -H "X-TC-Timestamp: '.$timestamp.'"'
.' -H "X-TC-Version: '.$version.'"'
.' -H "X-TC-Region: '.$region.'"'
." -d '".$payload."'";
echo $curl.PHP_EOL;
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'digest'
```

```
require 'json'
require 'time'
require 'openssl'
# Key Parameters
secret_id = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*******'
service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host
region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')
# ************* Step 1: Concatenate the CanonicalRequest string *************
http_request_method = 'POST'
canonical_uri = '/'
canonical_querystring = ''
canonical_headers = "content-type:application/json; charset=utf-8\nhost:#{host}
\n"
signed_headers = 'content-type;host'
# params = { 'Limit' => 1, 'Filters' => [{ 'Name' => 'instance-name', 'Values' =>
['unnamed'] }] }
# payload = JSON.generate(params, { 'ascii_only' => true, 'space' => ' ' })
# json will generate in random order, to get specified result in example, we hard
-code it here.
payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-nam
e"}]}'
hashed_request_payload = Digest::SHA256.hexdigest(payload)
canonical_request = [
http_request_method,
canonical_uri,
canonical_querystring,
canonical_headers,
signed_headers,
hashed_request_payload,
].join("\n")
puts canonical_request
# ************* Step 2: Concatenate the string to sign *************
credential_scope = date + '/' + service + '/' + 'tc3_request'
hashed_request_payload = Digest::SHA256.hexdigest(canonical_request)
string_to_sign = [
algorithm,
timestamp.to_s,
credential_scope,
```

```
hashed_request_payload,
].join("\n")
puts string_to_sign
# ************* Step 3: Calculate the Signature *************
digest = OpenSSL::Digest.new('sha256')
secret_date = OpenSSL::HMAC.digest(digest, 'TC3' + secret_key, date)
secret_service = OpenSSL::HMAC.digest(digest, secret_date, service)
secret_signing = OpenSSL::HMAC.digest(digest, secret_service, 'tc3_request')
signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature
# ************* Step 4: Concatenate the Authorization *************
authorization = "#{algorithm} Credential=#{secret_id}/#{credential_scope}, Signed
Headers=#{signed_headers}, Signature=#{signature}"
puts authorization
puts 'curl -X POST ' + endpoint \
+ ' -H "Authorization: ' + authorization + '"' \
+ ' -H "Content-Type: application/json; charset=utf-8"' \
+ ' -H "Host: ' + host + '"' \
+ ' -H "X-TC-Action: ' + action + '"' \
+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + '"' \
+ ' -H "X-TC-Version: ' + version + '"' \
+ ' -H "X-TC-Region: ' + region + '"' \
+ " -d '" + payload + "'"
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.Text;
public class Application
{
public static string SHA256Hex(string s)
{
using (SHA256 algo = SHA256.Create())
{
byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
StringBuilder builder = new StringBuilder();
for (int i = 0; i < hashbytes.Length; ++i)
{
builder.Append(hashbytes[i].ToString("x2"));
}
return builder.ToString();
}
}
public static byte[] HmacSHA256(byte[] key, byte[] msg)
```

```
{
using (HMACSHA256 mac = new HMACSHA256(key))
{
return mac.ComputeHash(msg);
}
}
public static Dictionary<String, String> BuildHeaders(string secretid,
string secretkey, string service, string endpoint, string region,
string action, string version, DateTime date, string requestPayload)
{
string datestr = date.ToString("yyyy-MM-dd");
DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, Mi
dpointRounding.AwayFromZero) / 1000;
// ************* Step 1: Concatenate the CanonicalRequest string *************
string algorithm = "TC3-HMAC-SHA256";
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string contentType = "application/json";
string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
string signedHeaders = "content-type;host";
string hashedRequestPayload = SHA256Hex(requestPayload);
string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
Console.WriteLine(canonicalRequest);
Console.WriteLine("-----------------------------------");
// ************* Step 2: Concatenate the string to sign *************
string credentialScope = datestr + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = SHA256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + requestTimestamp.ToString() + "\n" + cre
dentialScope + "\n" + hashedCanonicalRequest;
Console.WriteLine(stringToSign);
Console.WriteLine("-----------------------------------");
// ************* Step 3: Calculate the signature *************
byte[] tc3SecretKey = Encoding.UTF8.GetBytes("TC3" + secretkey);
byte[] secretDate = HmacSHA256(tc3SecretKey, Encoding.UTF8.GetBytes(datestr));
byte[] secretService = HmacSHA256(secretDate, Encoding.UTF8.GetBytes(service));
byte[] secretSigning = HmacSHA256(secretService, Encoding.UTF8.GetBytes("tc3_requ
est"));
byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringTo
Sign));
```

```
string signature = BitConverter.ToString(signatureBytes).Replace("-", "").ToLower
();
Console.WriteLine(signature);
Console.WriteLine("-----------------------------------");
// ************* Step 4: Concatenate the Authorization *************
string authorization = algorithm + " "
+ "Credential=" + secretid + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", "
+ "Signature=" + signature;
Console.WriteLine(authorization);
Console.WriteLine("-----------------------------------");
Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}
public static void Main(string[] args)
{
// SecretID and SecretKey
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
string service = "cvm";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
// The timestamp `2019-02-26 00:44:25` used here is only for reference. In a proj
ect, use the following parameter:
// DateTime date = DateTime.UtcNow;
// Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds
(1551113065);
string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\u672a\\u5
47d\\u540d\"], \"Name\": \"instance-name\"}]}";
Dictionary<string, string> headers = BuildHeaders(SECRET_ID, SECRET_KEY, service
, endpoint, region, action, version, date, requestPayload);
Console.WriteLine("POST https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine();
```

```
Console.WriteLine(requestPayload);
}
}
```

NodeJS

```
const crypto = require('crypto');
function sha256(message, secret = '', encoding) {
const hmac = crypto.createHmac('sha256', secret)
return hmac.update(message).digest(encoding)
}
function getHash(message, encoding = 'hex') {
const hash = crypto.createHash('sha256')
return hash.update(message).digest(encoding)
}
function getDate(timestamp) {
const date = new Date(timestamp * 1000)
const year = date.getUTCFullYear()
const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
const day = ('0' + date.getUTCDate()).slice(-2)
return `${year}-${month}-${day}`
}
function main(){
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******"
const endpoint = "cvm.tencentcloudapi.com"
const service = "cvm"
const region = "ap-guangzhou"
const action = "DescribeInstances"
const version = "2017-03-12"
//const timestamp = getTime()
const timestamp = 1551113065
const date = getDate(timestamp)
// ************* Step 1: Concatenate the CanonicalRequest string *************
const signedHeaders = "content-type;host"
const payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}"
const hashedRequestPayload = getHash(payload);
const httpRequestMethod = "POST"
const canonicalUri = "/"
const canonicalQueryString = ""
const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + endpoint + "\n"
const canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
```

```
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload
console.log(canonicalRequest)
console.log("----------------------------")
// ************* Step 2: Concatenate the string to sign *************
const algorithm = "TC3-HMAC-SHA256"
const hashedCanonicalRequest = getHash(canonicalRequest);
const credentialScope = date + "/" + service + "/" + "tc3_request"
const stringToSign = algorithm + "\n" +
timestamp + "\n" +
credentialScope + "\n" +
hashedCanonicalRequest
console.log(stringToSign)
console.log("----------------------------")
// ************* Step 3: Calculate the signature *************
const kDate = sha256(date, 'TC3' + SECRET_KEY)
const kService = sha256(service, kDate)
const kSigning = sha256('tc3_request', kService)
const signature = sha256(stringToSign, kSigning, 'hex')
console.log(signature)
console.log("----------------------------")
// ************* Step 4: Concatenate the Authorization *************
const authorization = algorithm + " " +
"Credential=" + SECRET_ID + "/" + credentialScope + ", " +
"SignedHeaders=" + signedHeaders + ", " +
"Signature=" + signature
console.log(authorization)
console.log("----------------------------")
const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + endpoint + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + timestamp.toString() + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + "'"
console.log(Call_Information)
}
main()
```

C++

```
#include <iostream>
#include <iomanip>
```

```
#include <sstream>
#include <string>
#include <stdio.h>
#include <time.h>
#include <openssl/sha.h>
#include <openssl/hmac.h>
using namespace std;
string get_data(int64_t &timestamp)
{
string utcDate;
char buff[20] = {0};
// time_t timenow;
struct tm sttime;
sttime = *gmtime(&timestamp);
strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
utcDate = string(buff);
return utcDate;
}
string int2str(int64_t n)
{
std::stringstream ss;
ss << n;
return ss.str();
}
string sha256Hex(const string &str)
{
char buf[3];
unsigned char hash[SHA256_DIGEST_LENGTH];
SHA256_CTX sha256;
SHA256_Init(&sha256);
SHA256_Update(&sha256, str.c_str(), str.size());
SHA256_Final(hash, &sha256);
std::string NewString = "";
for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
{
snprintf(buf, sizeof(buf), "%02x", hash[i]);
NewString = NewString + buf;
}
return NewString;
}
string HmacSha256(const string &key, const string &input)
{
unsigned char hash[32];
HMAC_CTX *h;
#if OPENSSL_VERSION_NUMBER < 0x10100000L
HMAC_CTX hmac;
HMAC_CTX_init(&hmac);
```

```
h = &hmac;
#else
h = HMAC_CTX_new();
#endif
HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);
HMAC_Update(h, ( unsigned char* )&input[0], input.length());
unsigned int len = 32;
HMAC_Final(h, hash, &len);
#if OPENSSL_VERSION_NUMBER < 0x10100000L
HMAC_CTX_cleanup(h);
#else
HMAC_CTX_free(h);
#endif
std::stringstream ss;
ss << std::setfill('0');
for (int i = 0; i < len; i++)
{
ss << hash[i];
}
return (ss.str());
}
string HexEncode(const string &input)
{
static const char* const lut = "0123456789abcdef";
size_t len = input.length();
string output;
output.reserve(2 * len);
for (size_t i = 0; i < len; ++i)
{
const unsigned char c = input[i];
output.push_back(lut[c >> 4]);
output.push_back(lut[c & 15]);
}
return output;
}
int main()
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
string service = "cvm";
string host = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
int64_t timestamp = 1551113065;
string date = get_data(timestamp);
// ************* Step 1: Concatenate the CanonicalRequest string *************
```

```
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string canonicalHeaders = "content-type:application/json; charset=utf-8\nhost:" +
host + "\n";
string signedHeaders = "content-type;host";
string payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name
\": \"instance-name\"}]}";
string hashedRequestPayload = sha256Hex(payload);
string canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canoni
calQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
cout << canonicalRequest << endl;
cout << "-----------------------" << endl;
// ************* Step 2: Concatenate the string to sign *************
string algorithm = "TC3-HMAC-SHA256";
string RequestTimestamp = int2str(timestamp);
string credentialScope = date + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = sha256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScop
e + "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----------------------" << endl;
// ************* Step 3: Calculate the signature ***************
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");
string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "-----------------------" << endl;
// ************* Step 4: Concatenate the Authorization *************
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
cout << authorization << endl;
cout << "-----------------------" << endl;
string headers = "curl -X POST https://" + host + "\n"
+ " -H \"Authorization: " + authorization + "\n"
+ " -H \"Content-Type: application/json; charset=utf-8\"" + "\n"
+ " -H \"Host: " + host + "\n"
+ " -H \"X-TC-Action: " + action + "\n"
+ " -H \"X-TC-Timestamp: " + RequestTimestamp + "\n"
+ " -H \"X-TC-Version: " + version + "\n"
+ " -H \"X-TC-Region: " + region + "\n"
+ " -d '" + payload;
cout << headers << endl;
```

```
return 0;
};
```

Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes.
AuthFailure.SecretIdNotFound	The key does not exist. Please go to the console to check whether it is disabled or you copied fewer or more characters.
AuthFailure.SignatureFailure	Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect.
AuthFailure.TokenFailure	Temporary certificate token error.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).

Signature

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Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.
The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the TencentCloud API Key page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the TencentCloud API Key page to apply for security credentials.
Security credentials consist of SecretId and SecretKey:

- SecretId is used to identify the API requester.
- SecretKey is used to encrypt the signature string and verify it on the server.
- **You must keep your security credentials private and avoid disclosure.**

You can apply for the security credentials through the following steps:

1. Log in to the Tencent Cloud Console.
2. Go to the TencentCloud API Key page.
3. On the API Key Management page, click **Create Key** to create a SecretId/SecretKey pair.

Note: Each account can have up to two pairs of SecretId/SecretKey.

2. Generating a Signature

With the SecretId and SecretKey, a signature can be generated. The following describes how to generate a signature:

Assume that the SecretId and SecretKey are:

- SecretId: `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`
- SecretKey: `Gu5t9xGARNpq86cd98joQYCN3*******`

Note: This is just an example. For actual operations, please use your own SecretId and SecretKey.

Take the Cloud Virtual Machine's request to view the instance list (DescribeInstances) as an example. When you invoke this API, the request parameters may be as follows:

Parameter name	Description	Parameter value
Action	Method name	DescribeInstances
SecretId	Key ID	`AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Region where the instance is located	ap-guangzhou
InstanceIds.0	ID of the instance to query	ins-09dx96dg
Offset	Offset	0
Limit	Allowed maximum output	20
Version	API version number	2017-03-12

2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names. Notes: (1) Parameters are sorted by their names instead of their values; (2) The parameters are sorted based on ASCII code, not in an alphabetical order or by values. For example, InstanceIds.2 should be arranged after InstanceIds.12. You can complete the sorting process using a sorting function in a programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
'Action' : 'DescribeInstances',
'InstanceIds.0' : 'ins-09dx96dg',
'Limit' : 20,
'Nonce' : 11886,
'Offset' : 0,
'Region' : 'ap-guangzhou',
'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******',
'Timestamp' : 1465185768,
'Version': '2017-03-12',
}
```

When developing in another programming language, you can sort these sample parameters and it will work as long as you obtain the same results.

2.2. Concatenating a Request String

This step generates a request string.

Format the request parameters sorted in the previous step into the form of "parameter name"="parameter value". For example, for the Action parameter, its parameter name is "Action" and its parameter value is "DescribeInstances", so it will become Action=DescribeInstances after formatted.

Note: The "parameter value" is the original value but not the value after URL encoding.

Then, concatenate the formatted parameters with "&". The resulting request string is as follows:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Timestamp=1465
185768&Version=2017-03-12
```

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

1. HTTP method: POST and GET modes are supported, and GET is used here for the request. Please note that the method name should be in all capital letters.
2. Request server: the domain name of the request to view the list of instances (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies by the module to which the API belongs. For more information, see the instructions of the specific API.
3. Request path: The request path in the current version of TencentCloud API is fixed to /.
4. Request string: the request string generated in the previous step.

The concatenation rule of the signature original string is: Request method + request host + request path + ? + request string

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WF
kmLPx3*******&Timestamp=1465185768&Version=2017-03-12
```

2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and then

encode the generated signature using Base64 to obtain the final signature.

The specific code is as follows with the PHP language being used as an example:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*******';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

When developing in another programming language, you can sign and verify the original in the example above and it works as long as you get the same results.

3. Encoding a Signature String

The generated signature string cannot be directly used as a request parameter and must be URL encoded.

For example, if the signature string generated in the previous step is zmmjn35mikh6pM3V7sUEuX4wyYM=, the final signature string request parameter (Signature) is zmmjn35mikh6pM3V7sUEuX4wyYM%3D, which will be used to generate the final request URL.

Note: If your request method is GET, or the request method is POST and the Content-Type is application/x-www-form-urlencoded, then all the request parameter values need to be URL encoded (except the parameter key and the symbol of =) when sending the request. Non-ASCII characters need to be encoded with UTF-8 before URL encoding.

Note: The network libraries of some programming languages automatically URL encode all parameters, in which case there is no need to URL encode the signature string; otherwise, two rounds of URL encoding will cause the signature to fail.

Note: Other parameter values also need to be encoded using RFC 3986. Use %XY in percent-encoding for special characters such as Chinese characters, where "X" and "Y" are hexadecimal characters (0-9 and uppercase A-F), and using lowercase will cause an error.

4. Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error code	Error description
AuthFailure.SignatureExpire	The signature is expired
AuthFailure.SecretIdNotFound	The key does not exist
AuthFailure.SignatureFailure	Signature error
AuthFailure.TokenFailure	Token error
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type)

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See SDK Center for more information. Currently, the following programming languages are supported:

- Python
- Java
- PHP
- Go
- NodeJS
- .NET

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%3D&Timestamp=1465185768&Version=2017-03-12` .

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;
public class TencentCloudAPIDemo {
private final static String CHARSET = "UTF-8";
public static String sign(String s, String key, String method) throws Exception {
Mac mac = Mac.getInstance(method);
SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlg
orithm());
mac.init(secretKeySpec);
byte[] hash = mac.doFinal(s.getBytes(CHARSET));
return DatatypeConverter.printBase64Binary(hash);
}
public static String getStringToSign(TreeMap<String, Object> params) {
StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
// When signing, the parameters need to be sorted in lexicographical order. TreeM
ap is used here to guarantee the correct order.
for (String k : params.keySet()) {
s2s.append(k).append("=").append(params.get(k).toString()).append("&");
}
return s2s.toString().substring(0, s2s.length() - 1);
}
public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEnc
odingException {
StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
// There is no requirement for the order of the parameters in the actual request
URL.
for (String k : params.keySet()) {
// The request string needs to be URL encoded. As the Key is all in English lette
rs, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHAR
SET)).append("&");
```

```
}
return url.toString().substring(0, url.length() - 1);
}
public static void main(String[] args) throws Exception {
TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap enable
s automatic sorting
// A random number should be used when actually calling, for example: params.put
("Nonce", new Random().nextInt(java.lang.Integer.MAX_VALUE));
params.put("Nonce", 11886); // Common parameter
// The current time of the system should be used when actually calling, for examp
le: params.put("Timestamp", System.currentTimeMillis() / 1000);
params.put("Timestamp", 1465185768); // Common parameter
params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"); // Common paramet
er
params.put("Action", "DescribeInstances"); // Common parameter
params.put("Version", "2017-03-12"); // Common parameter
params.put("Region", "ap-guangzhou"); // Common parameter
params.put("Limit", 20); // Business parameter
params.put("Offset", 0); // Business parameter
params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpq86cd98joQYCN3*
******", "HmacSHA1")); // Common parameter
System.out.println(getUrl(params));
}
}
```

Python

Note: If running in a Python 2 environment, the following requests dependency package must be installed first: `pip install requests`.

```
# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time
import requests
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
def get_string_to_sign(method, endpoint, params):
s = method + endpoint + "/?"
query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
return s + query_str
def sign_str(key, s, method):
hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
return base64.b64encode(hmac_str)
```

```
if __name__ == '__main__':
endpoint = "cvm.tencentcloudapi.com"
data = {
'Action' : 'DescribeInstances',
'InstanceIds.0' : 'ins-09dx96dg',
'Limit' : 20,
'Nonce' : 11886,
'Offset' : 0,
'Region' : 'ap-guangzhou',
'SecretId' : secret_id,
'Timestamp' : 1465185768, # int(time.time())
'Version': '2017-03-12'
}
s = get_string_to_sign("GET", endpoint, data)
data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
print(data["Signature"])
# An actual invocation would occur here, which may incur fees after success
# resp = requests.get("https://" + endpoint, params=data)
# print(resp.url)
```

Golang

```
package main
import (
"bytes"
"crypto/hmac"
"crypto/sha1"
"encoding/base64"
"fmt"
"sort"
)
func main() {
secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secretKey := "Gu5t9xGARNpq86cd98joQYCN3*******"
params := map[string]string{
"Nonce": "11886",
"Timestamp": "1465185768",
"Region": "ap-guangzhou",
"SecretId": secretId,
"Version": "2017-03-12",
"Action": "DescribeInstances",
"InstanceIds.0": "ins-09dx96dg",
"Limit": "20",
"Offset": "0",
}
var buf bytes.Buffer
```

```
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")
// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
keys = append(keys, k)
}
sort.Strings(keys)
for i := range keys {
k := keys[i]
buf.WriteString(k)
buf.WriteString("=")
buf.WriteString(params[k])
buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)
hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())
fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*******";
$param["Nonce"] = 11886;//rand();
$param["Timestamp"] = 1465185768;//time();
$param["Region"] = "ap-guangzhou";
$param["SecretId"] = $secretId;
$param["Version"] = "2017-03-12";
$param["Action"] = "DescribeInstances";
$param["InstanceIds.0"] = "ins-09dx96dg";
$param["Limit"] = 20;
$param["Offset"] = 0;
ksort($param);
$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ( $param as $key => $value ) {
$signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);
$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
```

```
// $param["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*******"
method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
'Action' => 'DescribeInstances',
'InstanceIds.0' => 'ins-09dx96dg',
'Limit' => 20,
'Nonce' => 11886,
'Offset' => 0,
'Region' => 'ap-guangzhou',
'SecretId' => secret_id,
'Timestamp' => 1465185768, # Time.now.to_i
'Version' => '2017-03-12',
}
sign = method + endpoint + '/?'
params = []
data.sort.each do |item|
params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, sig
n))
puts data['Signature']
# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
```

```
# res = Net::HTTP.get_response(uri)
# puts res.body
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Net;
using System.Security.Cryptography;
using System.Text;
public class Application {
public static string Sign(string signKey, string secret)
{
string signRet = string.Empty;
using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
{
byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
signRet = Convert.ToBase64String(hash);
}
return signRet;
}
public static string MakeSignPlainText(SortedDictionary<string, string> requestPa
rams, string requestMethod, string requestHost, string requestPath)
{
string retStr = "";
retStr += requestMethod;
retStr += requestHost;
retStr += requestPath;
retStr += "?";
string v = "";
foreach (string key in requestParams.Keys)
{
v += string.Format("{0}={1}&", key, requestParams[key]);
}
retStr += v.TrimEnd('&');
return retStr;
}
public static void Main(string[] args)
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******";
string endpoint = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
double RequestTimestamp = 1465185768;
```

```
// long timestamp = ToTimestamp() / 1000;
// string requestTimestamp = timestamp.ToString();
Dictionary<string, string> param = new Dictionary<string, string>();
param.Add("Limit", "20");
param.Add("Offset", "0");
param.Add("InstanceIds.0", "ins-09dx96dg");
param.Add("Action", action);
param.Add("Nonce", "11886");
// param.Add("Nonce", Math.Abs(new Random().Next()).ToString());
param.Add("Timestamp", RequestTimestamp.ToString());
param.Add("Version", version);
param.Add("SecretId", SECRET_ID);
param.Add("Region", region);
SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();
string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}
```

NodeJS

```
const crypto = require('crypto');
function get_req_url(params, endpoint){
params['Signature'] = escape(params['Signature']);
const url_strParam = sort_params(params)
return "https://" + endpoint + "/?" + url_strParam.slice(1);
}
function formatSignString(reqMethod, endpoint, path, strParam){
```

```
let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
return strSign;
}
function sha1(secretKey, strsign){
let signMethodMap = {'HmacSHA1': "sha1"};
let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}
function sort_params(params){
let strParam = "";
let keys = Object.keys(params);
keys.sort();
for (let k in keys) {
//k = k.replace(/_/g, '.');
strParam += ("&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}
function main(){
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*******"
const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)
let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;
strParam = sort_params(params)
const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----------------------")
params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
```

```
console.log("-----------------------")
const req_url = get_req_url(params, endpoint)
console.log(params['Signature'])
console.log("-----------------------")
console.log(req_url)
}
main()
```

Responses

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Response for Successful Requests

For example, when calling CAM API (version: 2017-03-12) to view the status of instances (DescribeInstancesStatus), if the request has succeeded, you may see the response as shown below:

```
{
"Response": {
"TotalCount": 0,
"InstanceStatusSet": [],
"RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
}
}
```

- The API will return `Response`, which contains `RequestId`, as long as it processes the request. It does not matter if the request is successful or not.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.
- Except for the fixed fields, all fields are action-specified. For the definitions of action-specified fields, see the corresponding API documentation. In this example, `TotalCount` and `InstanceStatusSet` are the fields specified by the API `DescribeInstancesStatus`. 0 `TotalCount` means that the requester owns 0 CVM instance so the `InstanceStatusSet` is empty.

Response for Failed Requests

If the request has failed, you may see the response as shown below:

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please ensure your s
ignature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error`, `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

Common Error Codes

If there is an Error field in the response, it means that the API call failed. The Code field in Error indicates the error code. The following table lists the common error codes that all actions can return.

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	The key does not exist.
AuthFailure.SignatureExpire	Signature expired.
AuthFailure.SignatureFailure	Signature error.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request does not have CAM authorization.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	Quota limit exceeded.

Error Code	Description
MissingParameter	A parameter is missing.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTPS request method error. Only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Bill Management APIs
DescribeBillSummary

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1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get bill details by product, project, region, billing mode, and tag by passing in parameters.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillSummary.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
Month	Yes	String	Bill month in the format of "yyyy-mm"
GroupType	Yes	String	Bill dimension. Valid values: `business`, `project`, `region`, `payMode`, and `tag`
TagKey.N	No	Array of String	Tag key, which is used when `GroupType` is `tag`.

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Indicates whether the data is ready. `0` : Not ready. `1` : Ready. If `Ready` is `0` , it indicates that the current UIN is initializing billing for the first time. Wait for 5-10 minutes and try again.
SummaryDetail	Array of SummaryDetail	Detailed summary of costs by multiple dimensions
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting bill details by region

This example shows you how to get bill details by region.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
"Month": "2023-04",
"GroupType": "region"
}
```

Output Example

```
{
"Response": {
"Ready": 1,
"RequestId": "a93087e2-c03a-4058-b09b-0ecc8dd493cb",
"SummaryDetail": [
```

```
{
"Business": [
{
"BusinessCode": "p_rav",
"BusinessCodeName": "Tencent Real-Time Communication (TRTC)",
"CashPayAmount": "5661.16",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5661.16",
"TotalCost": "24600.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cdh",
"BusinessCodeName": "CVM Dedicated Host (CDH)CDH",
"CashPayAmount": "4254.21",
"IncentivePayAmount": "0.00",
"RealTotalCost": "4254.21",
"TotalCost": "10920.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "9915.37",
"GroupKey": "1",
"GroupValue": "South China (Guangzhou)",
"IncentivePayAmount": "0.00",
"RealTotalCost": "9915.37",
"TotalCost": "35520.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine (CVM)CVM",
"CashPayAmount": "3231.21",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3359.21",
"TotalCost": "9809.48",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "128.00"
}
],
"CashPayAmount": "3231.21",
"GroupKey": "25",
```

```
"GroupValue": "Asia Pacific (Japan)",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3359.21",
"TotalCost": "9809.48",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "128.00"
},
{
"Business": [
{
"BusinessCode": "p_dcdb",
"BusinessCodeName": "TDSQL for MySQL",
"CashPayAmount": "2094.29",
"IncentivePayAmount": "0.00",
"RealTotalCost": "2094.29",
"TotalCost": "4915.20",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "2094.29",
"GroupKey": "11",
"GroupValue": "South China (Shenzhen Finance)",
"IncentivePayAmount": "0.00",
"RealTotalCost": "2094.29",
"TotalCost": "4915.20",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
]
}
}
```


Example2 Getting bill details by project

This example shows you how to get bill details by project.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
```

```
"Month": "2023-04",
"GroupType": "project"
}
```

Output Example

```
{
"Response": {
"Ready": 1,
"RequestId": "8e0a185f-a64c-4dca-ba23-ba8778d5ef6f",
"SummaryDetail": [
{
"Business": [
{
"BusinessCode": "p_rav",
"BusinessCodeName": "Tencent Real-Time Communication (TRTC)",
"CashPayAmount": "5661.16",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5661.16",
"TotalCost": "24600.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cdh",
"BusinessCodeName": "CVM Dedicated Host (CDH)CDH",
"CashPayAmount": "4254.20",
"IncentivePayAmount": "0.00",
"RealTotalCost": "4254.20",
"TotalCost": "10919.99",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "9915.36",
"GroupKey": "0",
"GroupValue": "Default project",
"IncentivePayAmount": "0.00",
"RealTotalCost": "9915.36",
"TotalCost": "35520.62",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
```

```
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine (CVM)CVM",
"CashPayAmount": "689.87",
"IncentivePayAmount": "0.00",
"RealTotalCost": "847.87",
"TotalCost": "1667.57",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "158.00"
},
{
"BusinessCode": "p_eip",
"BusinessCodeName": "Public IP IP",
"CashPayAmount": "9.69",
"IncentivePayAmount": "0.01",
"RealTotalCost": "9.71",
"TotalCost": "263.25",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cbs",
"BusinessCodeName": "Cloud Block Storage (CBS)CBS",
"CashPayAmount": "3.15",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3.15",
"TotalCost": "6.83",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "702.71",
"GroupKey": "1279809",
"GroupValue": "PCPC game",
"IncentivePayAmount": "0.01",
"RealTotalCost": "860.72",
"TotalCost": "1937.65",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "158.00"
}
]
}
}
```


Example3 Getting bill details by product

This example shows you how to get bill details by product.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
"Month": "2023-04",
"GroupType": "business"
}
```

Output Example


```
{
"Response": {
"Ready": 1,
"RequestId": "db6f4a8c-c8b3-4d86-836a-b0897e772b22",
"SummaryDetail": [
{
"Business": null,
"CashPayAmount": "5661.16",
"GroupKey": "p_rav",
"GroupValue": "Tencent Real-Time Communication (TRTC)",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5661.16",
"TotalCost": "24600.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": null,
"CashPayAmount": "4783.65",
"GroupKey": "p_cvm",
"GroupValue": "Cloud Virtual Machine (CVM)CVM",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5069.65",
"TotalCost": "13178.28",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "286.00"
}
]
}
}
```

Example4 Getting bill details by tag

This example shows you how to get bill details by tag.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
"Month": "2023-05",
"GroupType": "tag",
"TagKey": [
"Test key",
"Department category"
]
}
```

Output Example


```
{
"Response": {
"Ready": 1,
"RequestId": "fdb44563-4a70-4c41-88a4-68b628a221a8",
"SummaryDetail": [
{
"Business": [
{
"BusinessCode": "p_tencentmeeting_saas",
"BusinessCodeName": "Tencent Meeting (SaaS)",
"CashPayAmount": "3284.27",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3284.27",
"TotalCost": "7308.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cbs",
"BusinessCodeName": "Cloud Block Storage (CBS)CBS",
"CashPayAmount": "2583.11",
"IncentivePayAmount": "0.00",
"RealTotalCost": "2583.43",
```

```
"TotalCost": "6383.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.32"
}
],
"CashPayAmount": "5867.38",
"GroupKey": "Test key",
"GroupValue": "",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5867.70",
"TotalCost": "13691.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.32"
},
{
"Business": [
{
"BusinessCode": "p_nat",
"BusinessCodeName": "NATNAT Gateway",
"CashPayAmount": "127.44",
"IncentivePayAmount": "0.00",
"RealTotalCost": "127.44",
"TotalCost": "188.93",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cls",
"BusinessCodeName": "Cloud Log Service (CLS)CLS",
"CashPayAmount": "0.71",
"IncentivePayAmount": "0.00",
"RealTotalCost": "0.71",
"TotalCost": "1.08",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "128.15",
"GroupKey": "Test key",
"GroupValue": "123456",
"IncentivePayAmount": "0.00",
"RealTotalCost": "128.15",
"TotalCost": "190.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
```

```
"Business": [
{
"BusinessCode": "p_tencentmeeting_saas",
"BusinessCodeName": "Tencent Meeting (SaaS)",
"CashPayAmount": "3284.27",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3284.27",
"TotalCost": "7308.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cbs",
"BusinessCodeName": "Cloud Block Storage (CBS)CBS",
"CashPayAmount": "2583.11",
"IncentivePayAmount": "0.00",
"RealTotalCost": "2583.43",
"TotalCost": "6383.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.32"
}
],
"CashPayAmount": "5867.38",
"GroupKey": "Department category",
"GroupValue": "",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5867.70",
"TotalCost": "13691.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.32"
},
{
"Business": [
{
"BusinessCode": "p_ckafka",
"BusinessCodeName": "TDMQCKafka",
"CashPayAmount": "1076.00",
"IncentivePayAmount": "0.00",
"RealTotalCost": "1076.00",
"TotalCost": "1076.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "1076.00",
"GroupKey": "Department category",
"GroupValue": "Purchase department",
```

```
"IncentivePayAmount": "0.00",
"RealTotalCost": "1076.00",
"TotalCost": "1076.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
"BusinessCode": "p_yunjing",
"BusinessCodeName": "T-Sec-Cloud Workload Protection Platform (CWPP)",
"CashPayAmount": "123.18",
"IncentivePayAmount": "0.00",
"RealTotalCost": "123.18",
"TotalCost": "180.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "123.18",
"GroupKey": "Department category",
"GroupValue": "Logistics department",
"IncentivePayAmount": "0.00",
"RealTotalCost": "123.18",
"TotalCost": "180.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
"BusinessCode": "p_clb",
"BusinessCodeName": "Cloud Load Balancer (CLB)CLB",
"CashPayAmount": "38.31",
"IncentivePayAmount": "0.00",
"RealTotalCost": "38.31",
"TotalCost": "112.20",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cos",
"BusinessCodeName": "COS Cloud Object Storage (COS)",
"CashPayAmount": "0.00",
"IncentivePayAmount": "0.00",
"RealTotalCost": "0.00",
"TotalCost": "0.00",
```

```
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "38.31",
"GroupKey": "Department category",
"GroupValue": "Business department",
"IncentivePayAmount": "0.00",
"RealTotalCost": "38.31",
"TotalCost": "112.20",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine (CVM)CVM",
"CashPayAmount": "-43.67",
"IncentivePayAmount": "0.00",
"RealTotalCost": "-43.67",
"TotalCost": "-43.67",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "-43.67",
"GroupKey": "Department category",
"GroupValue": "Finance department",
"IncentivePayAmount": "0.00",
"RealTotalCost": "-43.67",
"TotalCost": "-43.67",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
]
}
}
```


Example5 Getting bill details by billing mode

This example shows you how to get bill details by billing mode.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
"Month": "2023-04",
"GroupType": "payMode"
}
```

Output Example


```
{
"Response": {
"Ready": 1,
"RequestId": "9ddf63cd-89ce-4a0e-9332-7402926fe1a1",
"SummaryDetail": [
{
"Business": [
{
"BusinessCode": "p_rav",
"BusinessCodeName": "Tencent Real-Time Communication (TRTC)",
"CashPayAmount": "5661.16",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5661.16",
"TotalCost": "24600.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine (CVM)CVM",
"CashPayAmount": "4780.18",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5066.18",
"TotalCost": "13111.78",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "286.00"
}
],
"CashPayAmount": "10441.34",
"GroupKey": "prePay",
"GroupValue": "Monthly subscription",
"IncentivePayAmount": "0.00",
```

```
"RealTotalCost": "10727.34",
"TotalCost": "37712.41",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "286.00"
},
{
"Business": [
{
"BusinessCode": "p_edgeone",
"BusinessCodeName": "Tencent Cloud EdgeOne",
"CashPayAmount": "1205.63",
"IncentivePayAmount": "0.00",
"RealTotalCost": "1205.63",
"TotalCost": "2706.77",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_nat",
"BusinessCodeName": "NATNAT Gateway",
"CashPayAmount": "1145.13",
"IncentivePayAmount": "1.72",
"RealTotalCost": "1146.85",
"TotalCost": "1700.27",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "2350.76",
"GroupKey": "postPay",
"GroupValue": "Pay-as-you-go",
"IncentivePayAmount": "1.72",
"RealTotalCost": "2352.48",
"TotalCost": "4407.04",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
]
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.TagKeyNotExist	This cost allocation tag key does not exist.
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.

DescribeBillResourceSummary

最近更新时间：2024-05-16 15:10:04

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get the bill summarized by instance.

A maximum of 5 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillResourceSummary.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
Offset	Yes	Integer	Pagination offset. If `Offset` is `0`, it indicates the first page. If `Limit` is `100`, "`Offset` = `100`" indicates the second page, then "`Offset` = `200`" indicates the third page, and so on.
Limit	Yes	Integer	Quantity, maximum is 1000
Month	Yes	String	Bill month in the format of "yyyy-mm". This value must be no earlier than March 2019, when Bill 2.0 was launched.
PeriodType	No	String	The period type. byUsedTime: By usage period; byPayTime: by payment period. Must be the same as the period of the current

			monthly bill of the Billing Center. You can check your bill statistics period type at the top of the Bill Overview page.
NeedRecordNum	No	Integer	Indicates whether or not the total number of records of accessing the list is required, used for frontend pages. 1 = yes, 0 = no
ActionType	No	String	Action type to query. Valid values: Purchase Renewal Modify Refund Deduction Hourly settlement Daily settlement Monthly settlement Offline project deduction Offline deduction adjust-CR adjust-DR One-off RI Fee Spot Hourly RI fee New monthly subscription Monthly subscription renewal Monthly subscription specification adjustment Monthly subscription refund
ResourceId	No	String	ID of the instance to be queried
PayMode	No	String	Billing mode. Valid values: `prePay` (prepaid), `postPay` (postpaid)
BusinessCode	No	String	Product code Note: To query the product codes used in the current month, call DescribeBillSummaryByProduct.
PayerUin	No	String	The account ID of the payer, which is the unique identifier of a Tencent Cloud user. This account is allowed to query its own bills by default. If an organization admin account needs to query the self-pay bills of members, this field should be specified as the member account ID.
TagKey	No	String	Cost allocation tag key, which can be customized. This parameter can be used for querying bills after January 2021.
TagValue	No	String	Resource tag value. If it is left empty, there are no records with

			tag values set under this tag key. This parameter can be used for querying bills after January 2021.

3. Output Parameters

Parameter Name	Type	Description
ResourceSummarySet	Array of BillResourceSummary	Resource summary list
Total	Integer	Total number of resource summary lists, which will not be returned when `NeedRecordNum` is `0`. This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the bill summarized by instance

This example shows you how to get the bill summarized by instance.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillResourceSummary

{
"Offset": 0,
"Limit": 1,
"PeriodType": "byPayTime",
"Month": "2022-01",
"NeedRecordNum": 1
}
```

Output Example

```
{
"Response": {
"ResourceSummarySet": [
{
"BusinessCodeName": "abc",
"ProductCodeName": "abc",
"PayModeName": "abc",
"ProjectName": "abc",
"RegionName": "abc",
"ZoneName": "abc",
"ResourceId": "abc",
"ResourceName": "abc",
"ActionTypeName": "abc",
"OrderId": "abc",
"PayTime": "2020-09-22 00:00:00",
"FeeBeginTime": "2020-09-22 00:00:00",
"FeeEndTime": "2020-09-22 00:00:00",
"ConfigDesc": "abc",
"ExtendField1": "abc",
"ExtendField2": "abc",
"TotalCost": "abc",
"Discount": "abc",
"ReduceType": "abc",
"RealTotalCost": "abc",
"VoucherPayAmount": "abc",
"CashPayAmount": "abc",
"IncentivePayAmount": "abc",
"TransferPayAmount": "abc",
"ExtendField3": "abc",
"ExtendField4": "abc",
"ExtendField5": "abc",
"Tags": [
{
"TagKey": "abc",
"TagValue": "abc"
}
],
"PayerUin": "abc",
"OwnerUin": "abc",
"OperateUin": "abc",
"BusinessCode": "abc",
"ProductCode": "abc",
"RegionId": 0,
"InstanceType": "abc",
"OriginalCostWithRI": "abc",
"SPDeduction": "abc",
```

```
"OriginalCostWithSP": "abc"
}
],
"Total": 0,
"RequestId": "abc"
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.SummaryDataNotReady	Summary is being built. Please try again later.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.

DescribeBillDetail

最近更新时间：2024-05-28 17:26:59

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

u200cThis API is used to get bill details.
Note:

1. The API request may fail due to network instability or other exceptions. In this case, we recommend you manually retry the request when the API request fails.
   2.If the volume of your bill data is high (for example, if over 200 thousand bill entries are generated for a month), bill data query via APIs may be slow. We recommend you enable bill storage so that you can obtain bill files from COS buckets for analysis. For details, see Saving Bills to COS.

A maximum of 5 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillDetail.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
Offset	Yes	Integer	Offset
Limit	Yes	Integer	Quantity, maximum is 100

Month	No	String	Month; format: yyyy-mm. You only have to enter either Month or BeginTime and EndTime. When you enter values for BeginTime and EndTime, Month becomes invalid. This value must be no earlier than the month when Bill 2.0 is activated; last 24 months data are available.
BeginTime	No	String	The start time of the query range, which should be in the format Y-m-d H:i:s . The query range must be in the last 18 months and cannot be earlier than May 2018 (when Bill 2.0 was introduced). The start time and end time must be in the same month. Example: tccli billing DescribeBillDetail --cli-unfold-argument --Offset 1 --Limit 100 --BeginTime '2023-04-01 12:05:15' --EndTime '2023-04-18 12:00:10' --ProjectId 1000000731 --version "2018-07-09" Alternatively, you can use Month to query the billing details of a month. Example: ccli billing DescribeBillDetail --cli-unfold-argument --Offset 1 --Limit 100 --Month 2023-04 --version "2018-07-09" --ResourceId "disk-oj9okstm"
EndTime	No	String	The end time of the query range, which should be in the format `Y-m-d H:i:s` . The query range must be in the last 18 months and cannot be earlier than May 2018 (when Bill 2.0 was introduced). The start time and end time must be in the same month. Example: tccli billing DescribeBillDetail --cli-unfold-argument --Offset 1 --Limit 100 --BeginTime '2023-04-01 12:05:15' --EndTime '2023-04-18 12:00:10' --ProjectId 1000000731 --version "2018-07-09" Alternatively, you can use `Month` to query the billing details of a month. Example: ccli billing DescribeBillDetail --cli-unfold-argument --Offset 1 --Limit 100 --Month 2023-04 --version "2018-07-09" --ResourceId "disk-oj9okstm"
NeedRecordNum	No	Integer	Indicates whether or not the total number of records of accessing the list is required, used for frontend pages. 1 = yes, 0 = no
ProductCode	No	String	Queries information on a specified product

PayMode	No	String	Billing mode: prePay/postPay
ResourceId	No	String	Queries information on a specified resource
ActionType	No	String	Action type to query. Valid values: Purchase Renewal Modify Refund Deduction Hourly settlement Daily settlement Monthly settlement Offline project deduction Offline deduction adjust-CR adjust-DR One-off RI Fee Spot Hourly RI fee New monthly subscription Monthly subscription renewal Monthly subscription specification adjustment Monthly subscription specification adjustment Monthly subscription refund
ProjectId	No	Integer	Project ID: ID of the project to which the resource belongs
BusinessCode	No	String	Product code Note: To query the product codes used in the current month, call DescribeBillSummaryByProduct.
Context	No	String	Context information returned by the last request. You can set `Month` to `2023-05` or later to accelerate queries. We recommend users whose data volume is over 100 thousand entries use the paginated query feature, which can help greatly speed up your queries.
PayerUin	No	String	The account ID of the payer, which is the unique identifier of a Tencent Cloud user. This account is allowed to query its own bills by default. If an organization admin account needs to query the self-pay bills of members, this field should be specified as the member account ID.

3. Output Parameters

Parameter Name	Type	Description
DetailSet	Array of BillDetail	Details list
Total	Integer	Note: This field may return null, indicating that no valid values can be obtained.
Context	String	Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting Bill Details

This example shows you how to get bill details.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillDetail
<Common request parameters>{
"Offset": 0,
"Limit": 1,
"Month": "2023-07",
"NeedRecordNum": 1,
"ResourceId": "ins-wxf3fmq8"
}
```

Output Example

```
{
"Response": {
"Context": "m7u3i6W6Xt6VmK1NGvNzCXEBwkmoH/Y3ROhw2ICs3RkxMDTe6z/M5dFHpIoeEc+MOBKEh
nly44tsqyRJRRL0ZNpmtARd8SDzLfknCLcJtVkf6NJGoV8FXlYLQxABqcSt",
```

```
"DetailSet": [
{
"ActionType": "pre_to_post",
"ActionTypeName": "Monthly subscription to pay-as-you-go",
"AssociatedOrder": {
"PrepayPurchase": "2023070740000442656611",
"PrepayRenew": "2023070740000442695851,2023070740000442708571"
},
"BillDay": "2023-07-17 00:00:00",
"BillId": "2023070740000442821061",
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine CVM",
"BillMonth": "2023-07-01 00:00:00",
"ComponentSet": [
{
"BlendedDiscount": "1.00000000",
"CashPayAmount": "-80.43264806",
"ComponentCode": "virtual_v_cvm_compute",
"ComponentCodeName": "Computing components",
"ComponentConfig": [
{
"Name": "Project",
"Value": "element_test"
},
{
"Name": "Host",
"Value": "ins-wxf3fmq8"
},
{
"Name": "Private IP address",
"Value": "10.12.0.42"
},
{
"Name": "Network",
"Value": "Virtual Private Cloud"
},
{
"Name": "Availability zone",
"Value": "Guangzhou zone 2"
}
],
"ContractPrice": "-80.89000000",
"Cost": "-80.89000000",
"DeductedMeasure": "-",
"Discount": "1",
"IncentivePayAmount": "-0.45735194",
"InstanceType": "",
```

```
"ItemCode": "virtual_v_cvm_compute_s2",
"ItemCodeName": "Computing components-Standard S2-2-Core 4 GB",
"OriginalCostWithRI": "0.00000000",
"OriginalCostWithSP": "0.00000000",
"PriceUnit": "CNY/unit/month",
"RealCost": "-80.89000000",
"RealTotalMeasure": "-",
"ReduceType": "Discount",
"RiTimeSpan": "0.00000000",
"SPDeduction": "0.00000000",
"SPDeductionRate": "0.00000000",
"SinglePrice": "-80.89000000",
"SpecifiedPrice": "-80.89000000",
"TimeSpan": "1",
"TimeUnitName": "Month",
"TransferPayAmount": "0",
"UsedAmount": "1",
"UsedAmountUnit": "unit",
"VoucherPayAmount": "0"
}
],
"FeeBeginTime": "2023-07-07 16:14:21",
"FeeEndTime": "2023-07-07 16:14:21",
"Formula": "Refund: 343.12 CNY, cash voucher: 0 CNY, vouchers/discount vouchers a
re not refundable (order number 2023070740000044265661l: component cvm: cash paym
ent 88.81 CNY-used tier 1 pay-as-you-go: 0.02 CNY=remaining 88.79 CNY; order numb
er 2023070740000044265661l: component bandwidth: cash payment 0 CNY=remaining 0 C
NY; order number 2023070740000044269585l: component cvm: cash payment 172.92 CNY=
remaining 172.92 CNY; order number 2023070740000044269585l: component bandwidth:
cash payment 0 CNY=remaining 0 CNY; order number 2023070740000044270857l: compone
nt cvm: cash payment 84.12 CNY-original price 95.6* usage time 3.2258%*discount:8
8=remaining 81.41 CNY;",
"FormulaUrl": "https://buy.tencentcloud.com/price/cvm",
"Id": "1725547686519644160",
"OperateUin": "909619400",
"OrderId": "2023070740000044282106l",
"OwnerUin": "909619400",
"PayModeName": "Monthly subscription",
"PayTime": "2023-07-07 16:14:18",
"PayerUin": "909619400",
"PriceInfo": [
"Operating system: linux",
"Continuous usage time T: no tiers",
"Platform: Yunping"
],
"ProductCode": "sp_cvm_s2",
"ProductCodeName": "Cloud Virtual Machine CVM-Standard S2",
```

```
"ProjectId": 1002227,
"ProjectName": "element_test",
"RegionId": "1",
"RegionName": "South China (Guangzhou)",
"ResourceId": "ins-wxf3fmq8",
"ResourceName": "",
"Tags": [],
"ZoneName": "Guangzhou zone 2"
}
],
"RequestId": "ca7573cb-473d-40f3-8c58-7be43ae60195",
"Total": 14
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description

FailedOperation.QueryCountFailed	Failed to get the number of data entries.
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
UnsupportedOperation	Operation unsupported.

DescribeBillSummaryByProduct

最近更新时间：2024-05-16 15:10:02

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

Gets the bill summarized according to product

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillSummaryByProduct.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as `EndTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as `BeginTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and

			`EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
PayerUin	No	String	Queries bill data user's UIN
PayType	No	String	A bill type, which corresponds to a subtotal type of L0 bills. This parameter has become valid since v3.0 bills took effect in May 2021. Valid values: `consume`: consumption `refund`: refund `adjustment`: bill adjustment

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Indicates whether the data is ready. `0`: Not ready. `1`: Ready. If `Ready` is `0`, it indicates that the current UIN is initializing billing for the first time. Wait for 5-10 minutes and try again.
SummaryTotal	BusinessSummaryTotal	Total cost details Note: This field may return null, indicating that no valid value was found.
SummaryOverview	Array of BusinessSummaryOverviewItem	Cost distribution of all products Note: This field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the bill summarized by product

This example shows you how to get the bill summarized by product.

Input Example

```
POST / HTTP/1.1Host: billing.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeBillSummaryByProduct<Common request parameters>{ "EndTime": "2018-11", "BeginTime": "2018-11"}
```

Output Example


```
{
"Response": {
"Ready": 1,
"SummaryTotal": {
"RealTotalCost": "1458.00000000",
"TotalCost": "1458.00000000",
"VoucherPayAmount": "0.00000000",
"IncentivePayAmount": "0.00000000",
"CashPayAmount": "1458.00000000",
"TransferPayAmount": "0.00000000"
},
"SummaryOverview": [
{
"BusinessCode": "p_ssl",
"RealTotalCost": "1458.00000000",
"TotalCost": "1458.00000000",
"CashPayAmount": "1458.00000000",
"IncentivePayAmount": "0.00000000",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "100.00",
"BillMonth": "2022-07",
"BusinessCodeName": "SSL Certificates"
}
],
"RequestId": "67cd3369-b022-4a6a-818e-7ba5a05cb5d7"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
AuthFailure.UnauthorizedOperation	No permission.
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.

DescribeBillSummaryByProject

最近更新时间：2024-05-16 15:10:01

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

Gets the bill summarized according to project

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillSummaryByProject.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as `EndTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as `BeginTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and

			`EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
PayerUin	No	String	Queries bill data user's UIN

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Indicates whether the data is ready. `0`: Not ready. `1`: Ready. If `Ready` is `0`, it indicates that the current UIN is initializing billing for the first time. Wait for 5-10 minutes and try again.
SummaryOverview	Array of ProjectSummaryOverviewItem	Detailed cost distribution for all projects Note: This field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 DescribeBillSummaryByProject

DescribeBillSummaryByProject

Input Example

```
POST / HTTP/1.1Host: billing.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeBillSummaryByProject<Common request parameters>{ "EndTime": "2018-11", "BeginTime": "2018-11"}
```

Output Example

```
{
"Response": {
"Ready": 1,
"SummaryOverview": [
```

```
{
"ProjectId": "0",
"RealTotalCost": "693.59753331",
"TotalCost": "1117.51686802",
"CashPayAmount": "-1.24511821",
"IncentivePayAmount": "694.84265152",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "36.01",
"BillMonth": "2022-04",
"ProjectName": "Default project"
},
{
"ProjectId": "1161824",
"RealTotalCost": "692.84272353",
"TotalCost": "1067.95034395",
"CashPayAmount": "0.35221517",
"IncentivePayAmount": "692.49050836",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "35.97",
"BillMonth": "2022-04",
"ProjectName": "Anma"
},
{
"ProjectId": "1178116",
"RealTotalCost": "363.78903384",
"TotalCost": "582.90620577",
"CashPayAmount": "0.46518134",
"IncentivePayAmount": "363.32385250",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "18.89",
"BillMonth": "2022-04",
"ProjectName": "Open platform"
},
{
"ProjectId": "1229753",
"RealTotalCost": "175.91070932",
"TotalCost": "293.01647591",
"CashPayAmount": "0.42772170",
"IncentivePayAmount": "175.48298762",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "9.13",
"BillMonth": "2022-04",
"ProjectName": "Cloud"
```

```
}
],
"RequestId": "7651899f-01c5-4988-b203-59eae7e55272"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.

DescribeBillSummaryByRegion

最近更新时间：2024-05-16 15:10:01

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

Gets the bill summarized according to region

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillSummaryByRegion.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as `EndTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as `BeginTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and

			`EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
PayerUin	No	String	Queries bill data user's UIN

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Indicates whether the data is ready. `0`: Not ready. `1`: Ready. If `Ready` is `0`, it indicates that the current UIN is initializing billing for the first time. Wait for 5-10 minutes and try again.
SummaryOverview	Array of RegionSummaryOverviewItem	Detailed cost distribution for all regions Note: This field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the bill summarized by region

This example shows you how to get the bill summarized by region.

Input Example

```
POST / HTTP/1.1Host: billing.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeBillSummaryByRegion<Common request parameters>{ "EndTime": "2018-11", "BeginTime": "2018-11"}
```

Output Example

```
{
"Response": {
"Ready": 1,
"SummaryOverview": [
```

```
{
"RegionId": "1",
"RealTotalCost": "100631.85486247",
"TotalCost": "101708.25486247",
"CashPayAmount": "2922.91140386",
"IncentivePayAmount": "97708.94345861",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "55.61",
"BillMonth": "2021-11",
"RegionName": "South China (Guangzhou)"
},
{
"RegionId": "8",
"RealTotalCost": "52596.91309090",
"TotalCost": "52596.91309090",
"CashPayAmount": "64.99381195",
"IncentivePayAmount": "52531.91927895",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "29.07",
"BillMonth": "2021-11",
"RegionName": "North China (Beijing)"
},
{
"RegionId": "4",
"RealTotalCost": "27731.41174702",
"TotalCost": "27731.41174702",
"CashPayAmount": "71.09880801",
"IncentivePayAmount": "27660.31293901",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "15.32",
"BillMonth": "2021-11",
"RegionName": "East China (Shanghai)"
},
{
"RegionId": "0",
"RealTotalCost": "-5.24970039",
"TotalCost": "-5.24970039",
"CashPayAmount": "-3059.00402382",
"IncentivePayAmount": "3053.75432343",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "0.00",
"BillMonth": "2021-11",
"RegionName": "Other"
```

```
}
],
"RequestId": "0053df4c-c08d-4f43-bcaf-e181fc501167"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.

DescribeBillSummaryByPayMode

最近更新时间：2024-05-16 15:10:03

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get the bill summarized by billing mode.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillSummaryByPayMode.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as `EndTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as `BeginTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and

			`EndTime` are `2018-09` , the data returned will be for the entire month of September 2018.
PayerUin	No	String	Query bill data user's UIN

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Indicates whether the data is ready. `0` : Not ready. `1` : Ready. If `Ready` is `0` , it indicates that the current UIN is initializing billing for the first time. Wait for 5-10 minutes and try again.
SummaryOverview	Array of PayModeSummaryOverviewItem	Detailed cost distribution for all billing modes Note: This field may return null, indicating that no valid value was found.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the bill summarized by billing mode

This example shows you how to get the bill summarized by billing mode.

Input Example

```
POST / HTTP/1.1Host: billing.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeBillSummaryByPayMode<Common request parameters>{ "EndTime": "2018-11", "BeginTime": "2018-11"}
```

Output Example

```
{
"Response": {
"Ready": 1,
"SummaryOverview": [
```

```
{
"PayMode": "prePay",
"PayModeName": "Monthly subscription",
"RealTotalCost": "3228.80000000",
"TotalCost": "5064.00000000",
"CashPayAmount": "0.00000000",
"IncentivePayAmount": "3228.80000000",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "99.49",
"Detail": [
{
"ActionType": "prepay_renew",
"ActionTypeName": "Monthly subscription renewal",
"RealTotalCost": "3228.80000000",
"TotalCost": "5064.00000000",
"CashPayAmount": "0.00000000",
"IncentivePayAmount": "3228.80000000",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "100.00",
"BillMonth": "2021-12"
}
]
},
{
"PayMode": "postPay",
"PayModeName": "Pay-as-you-go",
"RealTotalCost": "16.44000000",
"TotalCost": "27.64446128",
"CashPayAmount": "0.00000000",
"IncentivePayAmount": "16.44000000",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "0.51",
"Detail": [
{
"ActionType": "postpay_deduct_h",
"ActionTypeName": "Hourly settlement",
"RealTotalCost": "19.32711686",
"TotalCost": "29.73402790",
"CashPayAmount": "3.83470332",
"IncentivePayAmount": "15.49241354",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "96.00",
"BillMonth": "2021-12"
```

```
},
{
"ActionType": "postpay_deduct_d",
"ActionTypeName": "Daily settlement",
"RealTotalCost": "0.80604458",
"TotalCost": "1.24113445",
"CashPayAmount": "0.00000000",
"IncentivePayAmount": "0.80604458",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "4.00",
"BillMonth": "2021-12"
},
{
"ActionType": "postpay_deduct_m",
"ActionTypeName": "Monthly settlement",
"RealTotalCost": "0.00000000",
"TotalCost": "0.36246037",
"CashPayAmount": "0.00000000",
"IncentivePayAmount": "0.00000000",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "0.00",
"BillMonth": "2021-12"
},
{
"ActionType": "billVirtualId",
"ActionTypeName": "Monthly precision difference adjustment",
"RealTotalCost": "-3.69316144",
"TotalCost": "-3.69316144",
"CashPayAmount": "-3.83470332",
"IncentivePayAmount": "0.14154188",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000",
"RealTotalCostRatio": "0.00",
"BillMonth": "2021-12"
}
]
}
],
"RequestId": "5d83209a-3223-497f-a36b-32330d88e454"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.

DescribeBillSummaryByTag

最近更新时间：2024-05-16 15:10:00

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get the cost distribution over different tags.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillSummaryByTag.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
BeginTime	Yes	String	The value must be of the same month as `EndTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and `EndTime` are `2018-09`, the data returned will be for the entire month of September 2018.
EndTime	Yes	String	The value must be of the same month as `BeginTime`. Query period must start and end on the same month and the query result returned will be of the entire month. For example, if both `BeginTime` and

			`EndTime` are `2018-09` , the data returned will be for the entire month of September 2018.
TagKey	Yes	String	Cost allocation tag key, which can be customized.
PayerUin	No	String	Payer UIN
TagValue	No	String	Resource tag value

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Indicates whether the data is ready. `0` : Not ready. `1` : Ready. If `Ready` is `0` , it indicates that the current UIN is initializing billing for the first time. Wait for 5-10 minutes and try again.
SummaryOverview	Array of TagSummaryOverviewItem	Details about cost distribution over different tags Note: This field may return null, indicating that no valid values can be obtained.
SummaryTotal	SummaryTotal	Total cost Note: this field may return `null` , indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting bill data summarized by tag

This example shows you how to get bill data summarized by tag.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummaryByTag
```

```
<Common request parameters>

{
"TagKey": "province",
"EndTime": "2019-09",
"BeginTime": "2019-09"
}
```

Output Example


```
{
"Response": {
"Ready": 1,
"SummaryOverview": [
{
"TagValue": "",
"RealTotalCost": "3081.26707105",
"TotalCost": "5026.37707609",
"RealTotalCostRatio": "99.88",
"CashPayAmount": "3081.26707105",
"IncentivePayAmount": "0.00000000",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000"
},
{
"TagValue": "kCH0vYyI",
"RealTotalCost": "3.77264000",
"TotalCost": "4.71580000",
"RealTotalCostRatio": "0.12",
"CashPayAmount": "3.77264000",
"IncentivePayAmount": "0.00000000",
"VoucherPayAmount": "0.00000000",
"TransferPayAmount": "0.00000000"
}
],
"SummaryTotal": {
"RealTotalCost": "3085.03971105",
"TotalCost": "5031.09287609"
},
"RequestId": "0cdd9b57-4597-4e78-a60b-0e72f7637a3a"
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.TagKeyNotExist	This cost allocation tag key does not exist.
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.

DeleteAllocationTag

最近更新时间：2024-05-16 15:10:28

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

u200cThis API is used to batch cancel cost allocation tags.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DeleteAllocationTag.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
TagKey.N	Yes	Array of String	Cost allocation tag key

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Batch canceling cost allocation tags

This example shows you how to batch cancel cost allocation tags.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteAllocationTag
<Common request parameters>

{
"TagKey": [
"Test7",
"Test3"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "6c0edd0d-81a7-4e25-a292-e2a281c612ed"
}
}
```

5. Developer Resources

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InvalidParameter	Invalid parameter.

DescribeTagList

最近更新时间：2024-05-16 15:10:24

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get cost allocation tags.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeTagList.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
Limit	Yes	Integer	The number of entries returned at a time. The maximum value is `1000`.
Offset	Yes	Integer	Pagination offset. If `Offset` is `0`, it indicates the first page. When `Limit` is `100`, if `Offset` is `100`, it indicates the second page; if `Offset` is `200`, it indicates the third page, and so on.
TagKey	No	String	Cost allocation tag key, used for fuzzy search.
Status	No	Integer	Tag type, used for tag filtering. Valid values: `0` (general tags), `1` (cost allocation tags). If it is not specified, all tag keys will be queried.

OrderType	No	String	Sorting order. Valid values: `asc` (ascending order), `desc` (descending order).

3. Output Parameters

Parameter Name	Type	Description
RecordNum	Integer	Total number of records.
Data	Array of TagDataInfo	Tag information.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying tags

This example shows you how to query tags.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeTagList
<Common request parameters>

{
"Limit": "20",
"Offset": "0"
}
```

Output Example

```
{
"Response": {
"Data": [
{
```

```
"Status": 1,
"TagKey": "Test3",
"UpdateTime": "2023-02-28 19:22:21"
},
{
"Status": 1,
"TagKey": "Test7",
"UpdateTime": "2023-02-28 19:22:21"
},
{
"Status": 1,
"TagKey": "Test8",
"UpdateTime": "2023-02-28 19:22:21"
},
{
"Status": 0,
"TagKey": "Test4"
},
{
"Status": 0,
"TagKey": "Test6"
}
],
"RecordNum": 5,
"RequestId": "3cf36106-93e2-498d-a12f-62b3a6d9da34"
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.
InvalidParameter	Invalid parameter.

CreateAllocationTag

最近更新时间：2024-05-16 15:10:29

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to batch set cost allocation tags.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: CreateAllocationTag.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
TagKey.N	Yes	Array of String	Cost allocation tag key.

3. Output Parameters

Parameter Name	Type	Description

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Batch setting cost allocation tags

This example shows you how to batch set cost allocation tags.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateAllocationTag
<Common request parameters>

{
"TagKey": [
"Test3",
"Test7"
]
}
```

Output Example

```
{
"Response": {
"RequestId": "13a853ab-5471-46fd-9f6d-1c9ab6a6aaaf"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InvalidParameter	Invalid parameter.

DescribeBillDownloadUrl

最近更新时间：2024-05-28 17:26:58

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get bill download URLs for L0, L1, L2, and L3 bills and bill packs.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillDownloadUrl.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
FileType	Yes	String	Bill type. Valid values: `billOverview` (L0: PDF bills) `billSummary` (L1: Bill summary) `billResource` (L2: Bill by instance) `billDetail` (L3: Bill details) `billPack` (Bill packs)
Month	Yes	String	Bill month. The earliest month that can be queried is January 2021. L0 bills and bill packs cannot be downloaded for the current month.

			Please download the current month's bills after it is generated at 19:00 on the 1st day of the next month.
ChildUin.N	No	Array of String	List of account IDs for downloading the bill. By default, it queries the bill for the current account. If you are an admin account and need to download bills for member accounts with their own payment, input the member account's UIN for this parameter.

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Indicates whether the bill file is ready. Valid values: `0` (the file is being generated), `1` (the file has been generated).
DownloadUrl	String	Billing file download link, valid for 1 day. Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting bill download URLs

This example shows you how to get bill download URLs.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillDownloadUrl
<Common request parameters>

{
"FileType": "billPack",
"Month": "2023-08"
}
```

Output Example

```
{
"Response": {
"DownloadUrl": "http://xxxxxxxxxxxxxxxx",
"Ready": 1,
"RequestId": "3efd37d8-68aa-4bfc-8f8c-f8a0197f9931"
}
}
```

5. Developer Resources

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- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InvalidParameter	Invalid parameter.

Organization Account APIs DescribeBillSummaryForOrganization

最近更新时间：2024-05-16 15:10:17

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get bills summarized by product, project, region, billing mode, and tag by passing in parameters.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

Try it

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillSummaryForOrganization.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
Month	Yes	String	Bill month in the format of "yyyy-mm".
GroupType	Yes	String	Bill dimension. Valid values: `business`, `project`, `region`, `payMode`, and `tag`.
TagKey.N	No	Array of String	Tag key. Pass in it when `GroupType` is `tag`.

3. Output Parameters

Parameter Name	Type	Description
Ready	Integer	Indicates whether the data is ready. Valid values: `0` (not ready), `1` (ready). If `Ready` is `0`, it indicates that the current UIN is initializing billing for the first time. Wait for 5-10 minutes and try again.
SummaryDetail	Array of SummaryDetail	Bills summarized by multiple dimensions.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting bill details by region

This example shows you how to get bill details by region.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
"Month": "2023-04",
"GroupType": "region"
}
```

Output Example

```
{
"Response": {
"Ready": 1,
"RequestId": "a93087e2-c03a-4058-b09b-0ecc8dd493cb",
"SummaryDetail": [
```

```
{
"Business": [
{
"BusinessCode": "p_rav",
"BusinessCodeName": "Tencent Real-Time Communication (TRTC)",
"CashPayAmount": "5661.16",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5661.16",
"TotalCost": "24600.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cdh",
"BusinessCodeName": "CVM Dedicated Host (CDH)CDH",
"CashPayAmount": "4254.21",
"IncentivePayAmount": "0.00",
"RealTotalCost": "4254.21",
"TotalCost": "10920.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "9915.37",
"GroupKey": "1",
"GroupValue": "South China (Guangzhou)",
"IncentivePayAmount": "0.00",
"RealTotalCost": "9915.37",
"TotalCost": "35520.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine (CVM)CVM",
"CashPayAmount": "3231.21",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3359.21",
"TotalCost": "9809.48",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "128.00"
}
],
"CashPayAmount": "3231.21",
"GroupKey": "25",
```

```
"GroupValue": "Asia Pacific (Japan)",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3359.21",
"TotalCost": "9809.48",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "128.00"
},
{
"Business": [
{
"BusinessCode": "p_dcdb",
"BusinessCodeName": "TDSQL for MySQL",
"CashPayAmount": "2094.29",
"IncentivePayAmount": "0.00",
"RealTotalCost": "2094.29",
"TotalCost": "4915.20",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "2094.29",
"GroupKey": "11",
"GroupValue": "South China (Shenzhen Finance)",
"IncentivePayAmount": "0.00",
"RealTotalCost": "2094.29",
"TotalCost": "4915.20",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
]
}
}
```


Example2 Getting bill details by project

This example shows you how to get bill details by project.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
```

```
"Month": "2023-04",
"GroupType": "project"
}
```

Output Example

```
{
"Response": {
"Ready": 1,
"RequestId": "8e0a185f-a64c-4dca-ba23-ba8778d5ef6f",
"SummaryDetail": [
{
"Business": [
{
"BusinessCode": "p_rav",
"BusinessCodeName": "Tencent Real-Time Communication (TRTC)",
"CashPayAmount": "5661.16",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5661.16",
"TotalCost": "24600.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cdh",
"BusinessCodeName": "CVM Dedicated Host (CDH)CDH",
"CashPayAmount": "4254.20",
"IncentivePayAmount": "0.00",
"RealTotalCost": "4254.20",
"TotalCost": "10919.99",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "9915.36",
"GroupKey": "0",
"GroupValue": "Default project",
"IncentivePayAmount": "0.00",
"RealTotalCost": "9915.36",
"TotalCost": "35520.62",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
```

```
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine (CVM)CVM",
"CashPayAmount": "689.87",
"IncentivePayAmount": "0.00",
"RealTotalCost": "847.87",
"TotalCost": "1667.57",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "158.00"
},
{
"BusinessCode": "p_eip",
"BusinessCodeName": "Public IP IP",
"CashPayAmount": "9.69",
"IncentivePayAmount": "0.01",
"RealTotalCost": "9.71",
"TotalCost": "263.25",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cbs",
"BusinessCodeName": "Cloud Block Storage (CBS)CBS",
"CashPayAmount": "3.15",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3.15",
"TotalCost": "6.83",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "702.71",
"GroupKey": "1279809",
"GroupValue": "PCPC game",
"IncentivePayAmount": "0.01",
"RealTotalCost": "860.72",
"TotalCost": "1937.65",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "158.00"
}
]
}
}
```


Example3 Getting bill details by product

This example shows you how to get bill details by product.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
"Month": "2023-04",
"GroupType": "business"
}
```

Output Example


```
{
"Response": {
"Ready": 1,
"RequestId": "db6f4a8c-c8b3-4d86-836a-b0897e772b22",
"SummaryDetail": [
{
"Business": null,
"CashPayAmount": "5661.16",
"GroupKey": "p_rav",
"GroupValue": "Tencent Real-Time Communication (TRTC)",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5661.16",
"TotalCost": "24600.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": null,
"CashPayAmount": "4783.65",
"GroupKey": "p_cvm",
"GroupValue": "Cloud Virtual Machine (CVM)CVM",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5069.65",
"TotalCost": "13178.28",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "286.00"
}
]
}
}
```

Example4 Getting bill details by tag

This example shows you how to get bill details by tag.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
"Month": "2023-05",
"GroupType": "tag",
"TagKey": [
"Test key",
"Department category"
]
}
```

Output Example


```
{
"Response": {
"Ready": 1,
"RequestId": "fdb44563-4a70-4c41-88a4-68b628a221a8",
"SummaryDetail": [
{
"Business": [
{
"BusinessCode": "p_tencentmeeting_saas",
"BusinessCodeName": "Tencent Meeting (SaaS)",
"CashPayAmount": "3284.27",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3284.27",
"TotalCost": "7308.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cbs",
"BusinessCodeName": "Cloud Block Storage (CBS)CBS",
"CashPayAmount": "2583.11",
"IncentivePayAmount": "0.00",
"RealTotalCost": "2583.43",
```

```
"TotalCost": "6383.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.32"
}
],
"CashPayAmount": "5867.38",
"GroupKey": "Test key",
"GroupValue": "",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5867.70",
"TotalCost": "13691.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.32"
},
{
"Business": [
{
"BusinessCode": "p_nat",
"BusinessCodeName": "NATNAT Gateway",
"CashPayAmount": "127.44",
"IncentivePayAmount": "0.00",
"RealTotalCost": "127.44",
"TotalCost": "188.93",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cls",
"BusinessCodeName": "Cloud Log Service (CLS)CLS",
"CashPayAmount": "0.71",
"IncentivePayAmount": "0.00",
"RealTotalCost": "0.71",
"TotalCost": "1.08",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "128.15",
"GroupKey": "Test key",
"GroupValue": "123456",
"IncentivePayAmount": "0.00",
"RealTotalCost": "128.15",
"TotalCost": "190.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
```

```
"Business": [
{
"BusinessCode": "p_tencentmeeting_saas",
"BusinessCodeName": "Tencent Meeting (SaaS)",
"CashPayAmount": "3284.27",
"IncentivePayAmount": "0.00",
"RealTotalCost": "3284.27",
"TotalCost": "7308.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cbs",
"BusinessCodeName": "Cloud Block Storage (CBS)CBS",
"CashPayAmount": "2583.11",
"IncentivePayAmount": "0.00",
"RealTotalCost": "2583.43",
"TotalCost": "6383.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.32"
}
],
"CashPayAmount": "5867.38",
"GroupKey": "Department category",
"GroupValue": "",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5867.70",
"TotalCost": "13691.01",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.32"
},
{
"Business": [
{
"BusinessCode": "p_ckafka",
"BusinessCodeName": "TDMQCKafka",
"CashPayAmount": "1076.00",
"IncentivePayAmount": "0.00",
"RealTotalCost": "1076.00",
"TotalCost": "1076.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "1076.00",
"GroupKey": "Department category",
"GroupValue": "Purchase department",
```

```
"IncentivePayAmount": "0.00",
"RealTotalCost": "1076.00",
"TotalCost": "1076.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
"BusinessCode": "p_yunjing",
"BusinessCodeName": "T-Sec-Cloud Workload Protection Platform (CWPP)",
"CashPayAmount": "123.18",
"IncentivePayAmount": "0.00",
"RealTotalCost": "123.18",
"TotalCost": "180.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "123.18",
"GroupKey": "Department category",
"GroupValue": "Logistics department",
"IncentivePayAmount": "0.00",
"RealTotalCost": "123.18",
"TotalCost": "180.00",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
"BusinessCode": "p_clb",
"BusinessCodeName": "Cloud Load Balancer (CLB)CLB",
"CashPayAmount": "38.31",
"IncentivePayAmount": "0.00",
"RealTotalCost": "38.31",
"TotalCost": "112.20",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cos",
"BusinessCodeName": "COS Cloud Object Storage (COS)",
"CashPayAmount": "0.00",
"IncentivePayAmount": "0.00",
"RealTotalCost": "0.00",
"TotalCost": "0.00",
```

```
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "38.31",
"GroupKey": "Department category",
"GroupValue": "Business department",
"IncentivePayAmount": "0.00",
"RealTotalCost": "38.31",
"TotalCost": "112.20",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"Business": [
{
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine (CVM)CVM",
"CashPayAmount": "-43.67",
"IncentivePayAmount": "0.00",
"RealTotalCost": "-43.67",
"TotalCost": "-43.67",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "-43.67",
"GroupKey": "Department category",
"GroupValue": "Finance department",
"IncentivePayAmount": "0.00",
"RealTotalCost": "-43.67",
"TotalCost": "-43.67",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
]
}
}
```


Example5 Getting bill details by billing mode

This example shows you how to get bill details by billing mode.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Common request parameters>

{
"Month": "2023-04",
"GroupType": "payMode"
}
```

Output Example


```
{
"Response": {
"Ready": 1,
"RequestId": "9ddf63cd-89ce-4a0e-9332-7402926fe1a1",
"SummaryDetail": [
{
"Business": [
{
"BusinessCode": "p_rav",
"BusinessCodeName": "Tencent Real-Time Communication (TRTC)",
"CashPayAmount": "5661.16",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5661.16",
"TotalCost": "24600.63",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_cvm",
"BusinessCodeName": "Cloud Virtual Machine (CVM)CVM",
"CashPayAmount": "4780.18",
"IncentivePayAmount": "0.00",
"RealTotalCost": "5066.18",
"TotalCost": "13111.78",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "286.00"
}
],
"CashPayAmount": "10441.34",
"GroupKey": "prePay",
"GroupValue": "Monthly subscription",
"IncentivePayAmount": "0.00",
```

```
"RealTotalCost": "10727.34",
"TotalCost": "37712.41",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "286.00"
},
{
"Business": [
{
"BusinessCode": "p_edgeone",
"BusinessCodeName": "Tencent Cloud EdgeOne",
"CashPayAmount": "1205.63",
"IncentivePayAmount": "0.00",
"RealTotalCost": "1205.63",
"TotalCost": "2706.77",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
},
{
"BusinessCode": "p_nat",
"BusinessCodeName": "NATNAT Gateway",
"CashPayAmount": "1145.13",
"IncentivePayAmount": "1.72",
"RealTotalCost": "1146.85",
"TotalCost": "1700.27",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
],
"CashPayAmount": "2350.76",
"GroupKey": "postPay",
"GroupValue": "Pay-as-you-go",
"IncentivePayAmount": "1.72",
"RealTotalCost": "2352.48",
"TotalCost": "4407.04",
"TransferPayAmount": "0.00",
"VoucherPayAmount": "0.00"
}
]
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.TagKeyNotExist	This cost allocation tag key does not exist.
InternalError	Internal error.
InternalError.GatewayError	Gateway error.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.

DescribeBillResourceSummaryForOrganization

最近更新时间：2024-05-16 15:10:18

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get pay-on-behalf bills of the admin account (bills by instance).

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillResourceSummaryForOrganization.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
Offset	Yes	Integer	Pagination offset. If `Offset` is `0`, it indicates the first page. When `Limit` is `100`, if `Offset` is `100`, it indicates the second page; if `Offset` is `200`, it indicates the third page, and so on.
Limit	Yes	Integer	The number of entries returned at a time. The maximum value is `1000`.
Month	Yes	String	Bill month in the format of "yyyy-mm". This value must be no

			earlier than the month when Bill 2.0 is activated.
PeriodType	No	String	Cycle type, which can be `byUsedTime` (by billing cycle) or `byPayTime` (by deduction time). This value must be the same as the billing period type in Billing Center for that particular month. You can check your billing cycle at the top of the Bill Overview page.
NeedRecordNum	No	Integer	Indicates whether the total number of records is required, used for pagination. Valid values: `1` (required), `0` (not required).
ActionType	No	String	Transaction type. This parameter needs to be input using the `ActionTypeName` value. Valid values: Monthly subscription purchase Monthly subscription renewal Monthly subscription upgrade/downgrade Monthly subscription refund Pay-as-you-go deduction Offline project deduction Offline product deduction Adjustment deduction Adjustment compensation Hourly pay-as-you-go Daily pay-as-you-go Monthly pay-as-you-go Hourly spot instance Offline project adjustment compensation Offline product adjustment compensation Offer deduction Offer compensation Pay-as-you-go resource migration in Pay-as-you-go resource migration out Monthly subscription resource migration in Monthly subscription resource migration out Prepaid Hourly RI refund Pay-as-you-go reversal Monthly subscription to pay-as-you-go Minimum spend deduction Hourly savings plan fee
ResourceId	No	String	ID of the instance to be queried.
PayMode	No	String	Billing mode. Valid values: `prePay`, `postPay`.

BusinessCode	No	String	Product code Note: To query the product codes (`BusinessCode`) used in the current month, call DescribeBillSummaryByProduct.
TagKey	No	String	Cost allocation tag key, which can be customized. This parameter can be used for querying bills after January 2021.
TagValue	No	String	Resource tag value. If it is left empty, there are no records with tag values set under this tag key. This parameter can be used for querying bills after January 2021.

3. Output Parameters

Parameter Name	Type	Description
ResourceSummarySet	Array of BillDistributionResourceSummary	Resource summary list.
Total	Integer	Total number of resource summary lists. It will not be returned if `NeedRecordNum` is `0` . Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting the bill summarized by instance

This example shows you how to get the bill summarized by instance.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeOrganizationBillResourceSummary
```

```
<Common request parameters>

{
"Offset": 0,
"Limit": 1,
"Month": "2023-08",
"NeedRecordNum": 1,
"ResourceId": "cdb-0a90mrac"
}
```

Output Example


```
{
"Response": {
"RequestId": "0a27bddd-8683-4187-b9c0-7d407a2c818f",
"ResourceSummarySet": [
{
"ActionTypeName": "Monthly subscription renewal",
"BusinessCode": "p_cdb",
"BusinessCodeName": "TencentDBMySQL",
"CashPayAmount": "11.56675785",
"ConfigDesc": "MySQL - 1 CPU core",
"Discount": "0.325825",
"ExtendField1": "vpc: vpc-l0u15j26,Default-VPC",
"ExtendField2": "vip: 172.27.0.8",
"ExtendField3": "-",
"ExtendField4": "-",
"ExtendField5": "-",
"FeeBeginTime": "2023-08-07 10:58:41",
"FeeEndTime": "2023-09-07 10:58:41",
"IncentivePayAmount": "0.00000000",
"InstanceType": "-",
"OperateUin": "700000686592",
"OrderId": "2023080786703704417086l",
"OriginalCostWithRI": "0.00000000",
"OriginalCostWithSP": "0.00000000",
"OwnerUin": "700000686592",
"PayModeName": "Monthly subscription",
"PayTime": "2023-08-07 03:42:18",
"ProductCode": "sp_cdb_master",
"ProductCodeName": "MySQL - High-Availability Edition (General)",
"ProjectName": "Default project",
"RealTotalCost": "11.56675785",
"ReduceType": "Discount",
"RegionId": 16,
"RegionName": "Southwest China (Chengdu)",
```

```
"ResourceId": "cdb-0a90mrac",
"ResourceName": "TencentDBmysql-test7",
"SPDeduction": "0.00000000",
"Tags": [],
"TotalCost": "35.5",
"TransferPayAmount": "0.00000000",
"VoucherPayAmount": "0.00000000",
"ZoneName": "Chengdu Zone 1"
}
],
"Total": 3
}
}
```


5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- Tencent Cloud SDK 3.0 for Python
- Tencent Cloud SDK 3.0 for Java
- Tencent Cloud SDK 3.0 for PHP
- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.SummaryDataNotReady	Summary is being built. Please try again later.

InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.

DescribeBillDetailForOrganization

最近更新时间：2024-05-16 15:10:19

1. API Description

Domain name for API request: billing.tencentcloudapi.com.

This API is used to get pay-on-behalf bills of the admin account (bill details).
Note: The API request may fail due to network instability or other exceptions. In this case, we recommend you manually retry the request when the API request fails.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer
Try it
API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see Common Request Parameters.

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params. The value used for this API: DescribeBillDetailForOrganization.
Version	Yes	String	Common Params. The value used for this API: 2018-07-09.
Region	No	String	Common Params. This parameter is not required.
Offset	Yes	Integer	Pagination offset. If `Offset` is `0`, it indicates the first page. When `Limit` is `100`, if `Offset` is `100`, it indicates the second page; if `Offset` is `200`, it indicates the third page, and so on.
Limit	Yes	Integer	The number of entries returned at a time. The maximum value is `100`.
Month	No	String	The month is in the format of yyyy-mm. Either Month or

			BeginTime&EndTime must be specified. If BeginTime&EndTime is specified, the Month field is invalid. Data within the last 18 months can be pulled at most.
BeginTime	No	String	The start time of the period in the format of yyyy-mm-dd hh:ii:ss. Either Month or BeginTime&EndTime must be specified. If BeginTime&EndTime is specified, the Month field is invalid. BeginTime and EndTime must be specified together and must be in the same month. Cross-month queries are not supported and the query results are data for the entire month. Data within the last 18 months can be pulled at most.
EndTime	No	String	The end time of the period in the format of yyyy-mm-dd hh:ii:ss. Either Month or BeginTime&EndTime must be specified. If BeginTime&EndTime is specified, the Month field is invalid. BeginTime and EndTime must be specified together and must be in the same month. Cross-month queries are not supported and the query results are data for the entire month. Data within the last 18 months can be pulled at most.
NeedRecordNum	No	Integer	Indicates whether the total number of records is required, used for pagination. Valid values: `1` (required), `0` (not required).
PayMode	No	String	Billing mode, which can be `prePay` (monthly subscription) or `postPay` (pay-as-you-go).
ResourceId	No	String	ID of the instance to be queried.
ActionType	No	String	Transaction type. This parameter needs to be input using the `ActionTypeName` value. Valid values: Monthly subscription purchase Monthly subscription renewal Monthly subscription upgrade/downgrade Monthly subscription refund Pay-as-you-go deduction Offline project deduction Offline product deduction Adjustment deduction Adjustment compensation Hourly pay-as-you-go Daily pay-as-you-go Monthly pay-as-you-go Hourly spot instance Offline project adjustment compensation Offline product adjustment compensation

			Offer deduction Offer compensation Pay-as-you-go resource migration in Pay-as-you-go resource migration out Monthly subscription resource migration in Monthly subscription resource migration out Prepaid Hourly RI refund Pay-as-you-go reversal Monthly subscription to pay-as-you-go Minimum spend deduction Hourly savings plan fee
ProjectId	No	Integer	Project ID: The ID of the project to which the resource belongs.
BusinessCode	No	String	Product code. Note: To query the product codes used in the current month, call DescribeBillSummaryByProduct.
Context	No	String	Context information returned by the last response. You can view multiple pages when querying for data after May 2023 to speed up the query. We recommend you use this query method if your data volume is above 100 thousand entries, which can improve query speed by 2-10 times.

3. Output Parameters

Parameter Name	Type	Description
DetailSet	Array of DistributionBillDetail	Details list.
Total	Integer	Total number of records, which is cached every 24 hours and may be less than the actual total number of records. Note: This field may return null, indicating that no valid values can be obtained.
Context	String	Context information of the current request, which can be used in the parameters of the next request to speed up the query. Note: This field may return null, indicating that no valid values can be obtained.

RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Getting bill details

This example shows you how to get bill details.

Input Example

```
POST / HTTP/1.1
Host: billing.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeOrganizationBillDetail
<Common request parameters>

{
"Offset": 0,
"Limit": 1,
"Month": "2023-08",
"NeedRecordNum": 1,
"ResourceId": "nat-ftuh6xel"
}
```

Output Example

```
{
"Response": {
"Context": "TQpr+vp4d9EeM04pEI6ryHAVS3ZI84mbSVbUzlTD1F8EzZ6vYfNp+wKVhGw0dGkA2iAr5
lSGYE4O+bTWApdUY6ZcLDZGpQVYCVApRrjx0IUf6NJGoV8FXlYLQxABqcSt",
"DetailSet": [
{
"ActionType": "postpay_deduct_h",
"ActionTypeName": "Hourly pay-as-you-go",
"AssociatedOrder": null,
"BillId": "2023081640070542774448 2",
"BusinessCode": "p_nat",
"BusinessCodeName": "NATNAT Gateway",
"ComponentSet": [
{
"BlendedDiscount": "0.68040500",
```

```
"CashPayAmount": "0.34020250",
"ComponentCode": "v_nat_hour_instance",
"ComponentCodeName": "Instance",
"ComponentConfig": [],
"ContractPrice": "0.34020250",
"Cost": "0.50000000",
"DeductedMeasure": "-",
"Discount": "0.680405",
"IncentivePayAmount": "0",
"InstanceType": "",
"ItemCode": "sv_nat_hour_instance_small",
"ItemCodeName": "NATNAT Gateway - Small instance",
"OriginalCostWithRI": "0.00000000",
"OriginalCostWithSP": "0.00000000",
"PriceUnit": "USD/100 instances/hour",
"RealCost": "0.34020250",
"RealTotalMeasure": "-",
"ReduceType": "Discount",
"RiTimeSpan": "0.00000000",
"SPDeduction": "0.00000000",
"SPDeductionRate": "0.00000000",
"SinglePrice": "0.50000000",
"SpecifiedPrice": "0.50000000",
"TimeSpan": "1",
"TimeUnitName": "Hour",
"TransferPayAmount": "0",
"UsedAmount": "100",
"UsedAmountUnit": "Count",
"VoucherPayAmount": "0"
}
],
"FeeBeginTime": "2023-08-16 20:00:00",
"FeeEndTime": "2023-08-16 20:59:59",
"Formula": "-",
"FormulaUrl": "https://buy.tencentcloud.com/price/nat",
"OperateUin": "700000686592",
"OrderId": "2023081686770542774432",
"OwnerUin": "700000686592",
"PayModeName": "Pay-as-you-go",
"PayTime": "2023-08-16 21:15:38",
"PriceInfo": [],
"ProductCode": "sp_nat",
"ProductCodeName": "NATNAT Gateway",
"ProjectId": 0,
"ProjectName": "Default project",
"RegionId": "4",
"RegionName": "East China (Shanghai)",
```

```
"ResourceId": "nat-ftuh6xel",
"ResourceName": "migration-nat-test3",
"Tags": [],
"ZoneName": "Others"
}
],
"RequestId": "48f32947-8ef2-40b3-94ef-b8c08fc030da",
"Total": 544
}
}
```


5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see Common Error Codes.

Error Code	Description
FailedOperation.QueryCountFailed	Failed to get the number of data entries.
InternalError	Internal error.
InternalError.GatewayError	Gateway error.

InternalError.UnknownError	Undefined exception.
InvalidParameter	Invalid parameter.
InvalidParameterValue	Invalid parameter value.
UnsupportedOperation	Operation unsupported.

Data Types

最近更新时间：2024-05-28 17:27:00

ActionSummaryOverviewItem

Detailed summary of costs by transaction type

Used by actions: DescribeBillSummaryByPayMode.

Name	Type	Description
ActionType	String	Transaction type code
ActionTypeName	String	Transaction type, which can be monthly subscription purchase, monthly subscription renewal, or pay-as-you-go deduction.
RealTotalCostRatio	String	Cost ratio, to two decimal points
RealTotalCost	String	Total amount after discount
CashPayAmount	String	Cash credit: The amount paid from the user's cash account
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit. Note: This field may return null, indicating that no valid values can be obtained.
BillMonth	String	Billing month, e.g. `2019-08`
TotalCost	String	The original cost in USD. This parameter has become valid since v3.0 bills took effect in May 2021, and before that `-` was returned for this parameter. If a customer uses a contract price different from the published price, `-` will also be returned for this parameter.

AnalyseActionTypeDetail

Cost analysis transaction type complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description

ActionType	String	No	Transaction type codeNote: This field may return null, indicating that no valid values can be obtained.
ActionTypeName	String	No	Transaction type nameNote: This field may return null, indicating that no valid values can be obtained.

AnalyseAmountDetail

Cost analysis amount return data model

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description
Key	String	No	Fee typeNote: This field may return null, indicating that no valid values can be obtained.
Display	Integer	No	Whether to displayNote: This field may return null, indicating that no valid values can be obtained.

AnalyseBusinessDetail

Cost analysis product return complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Description
BusinessCode	String	Product codeNote: This field may return null, indicating that no valid values can be obtained.
BusinessCodeName	String	Product nameNote: This field may return null, indicating that no valid values can be obtained.

AnalyseConditionDetail

Cost analysis filter box complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Description
Business	Array of AnalyseBusinessDetail	ProductNote: This field may return null, indicating that no valid values can be obtained.
Project	Array of AnalyseProjectDetail	ItemNote: This field may return null, indicating that no valid values can be obtained.
Region	Array of AnalyseRegionDetail	RegionNote: This field may return null, indicating that no valid values can be obtained.
PayMode	Array of AnalysePayModeDetail	Billing modeNote: This field may return null, indicating that no valid values can be obtained.
ActionType	Array of AnalyseActionTypeDetail	Transaction typeNote: This field may return null, indicating that no valid values can be obtained.
Zone	Array of AnalyseZoneDetail	Availability zoneNote: This field may return null, indicating that no valid values can be obtained.
OwnerUin	Array of AnalyseOwnerUinDetail	Resource owner UINNote: This field may return null, indicating that no valid values can be obtained.
Amount	Array of AnalyseAmountDetail	Fee typeNote: This field may return null, indicating that no valid values can be obtained.

AnalyseConditions

Cost analysis query conditions

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description
BusinessCodes	String	No	Product name codeNote: This field may return null, indicating that no valid values can be obtained.
ProductCodes	String	No	Sub-product name codeNote: This field may return null, indicating that no valid values can be obtained.
ComponentCode	String	No	Component type codeNote: This field may return null, indicating that no valid values can be obtained.
ZoneIds	String	No	Availability zone ID: The availability zone ID to which the resource belongsNote: This field may return null, indicating that no valid values can be obtained.

RegionIds	String	No	Region ID: The region ID to which the resource belongsNote: This field may return null, indicating that no valid values can be obtained.
ProjectIds	String	No	Project ID: The project ID to which the resource belongsNote: This field may return null, indicating that no valid values can be obtained.
PayModes	String	No	Billing mode prePay (indicates monthly subscription)/postPay (indicates pay-as-you-go billing)Note: This field may return null, indicating that no valid values can be obtained.
ActionTypes	String	No	Transaction type. Query transaction type. (Use transaction type code input parameter.)Note: This field may return null, indicating that no valid values can be obtained.
Tags	String	No	Cost allocation tag keyNote: This field may return null, indicating that no valid values can be obtained.
FeeType	String	No	Fee type. Query fee type. (Use fee type code input parameter.) The input parameter enumeration is as follows:cashPayAmount: cash incentivePayAmount: free credits voucherPayAmount: coupons tax:taxes costBeforeTax: price before taxNote: This field may return null, indicating that no valid values can be obtained.
PayerUins	String	No	User UIN for querying cost analysis dataNote: This field may return null, indicating that no valid values can be obtained.
OwnerUins	String	No	User UIN for using resourcesNote: This field may return null, indicating that no valid values can be obtained.
ConsumptionTypes	String	No	Consumption type. Query consumption type. (Use consumption type code input parameter.)Note: This field may return null, indicating that no valid values can be obtained.

AnalyseDetail

Cost analysis data complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Description
Name	String	Time

Total	String	Amount
TimeDetail	Array of AnalyseTimeDetail	Date detailed amountNote: This field may return null, indicating that no valid values can be obtained.

AnalyseHeaderDetail

Cost analysis header data complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Description
HeadDetail	Array of AnalyseHeaderTimeDetail	Header dateNote: This field may return null, indicating that no valid values can be obtained.
Name	String	TimeNote: This field may return null, indicating that no valid values can be obtained.
Total	String	TotalNote: This field may return null, indicating that no valid values can be obtained.

AnalyseHeaderTimeDetail

Cost analysis header data

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description
Name	String	No	DateNote: This field may return null, indicating that no valid values can be obtained.

AnalyseOwnerUinDetail

Cost analysis user UIN complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description

OwnerUin	String	No	User UIN Note: This field may return null, indicating that no valid values can be obtained.

AnalysePayModeDetail

Cost analysis payment method complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description
PayMode	String	No	Billing mode codeNote: This field may return null, indicating that no valid values can be obtained.
PayModeName	String	No	Billing mode nameNote: This field may return null, indicating that no valid values can be obtained.

AnalyseProjectDetail

Cost analysis project return complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description
ProjectId	String	No	Project ID Note: This field may return null, indicating that no valid values can be obtained.
ProjectName	String	No	Default projectNote: This field may return null, indicating that no valid values can be obtained.

AnalyseRegionDetail

Cost analysis region return complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description

RegionId	String	No	Region ID Note: This field may return null, indicating that no valid values can be obtained.
RegionName	String	No	Region nameNote: This field may return null, indicating that no valid values can be obtained.

AnalyseTimeDetail

Cost analysis return value complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Description
Time	String	DateNote: This field may return null, indicating that no valid values can be obtained.
Money	String	AmountNote: This field may return null, indicating that no valid values can be obtained.

AnalyseZoneDetail

Cost analysis availability zone complex type

Used by actions: DescribeCostExplorerSummary.

Name	Type	Required	Description
ZoneId	String	No	Availability zone IDNote: This field may return null, indicating that no valid values can be obtained.
ZoneName	String	No	Availability zone nameNote: This field may return null, indicating that no valid values can be obtained.

ApplicableProducts

The products that are applicable.

Used by actions: DescribeVoucherInfo.

Name	Type	Description

GoodsName	String	Valid values: `all products` or names of the applicable products (string). Multiple names are separated by commas.
PayMode	String	Valid values: `postPay` : pay-as-you-go; `prePay` : prepaid; `riPay` : reserved instance; empty or `*` : all. If `GoodsName` contains multiple product names and `PayMode` is `*` , it indicates that the voucher can be used in all billing modes for each of the products.

BillDetail

Bill details

Used by actions: DescribeBillDetail.

Name	Type	Description
BusinessCodeName	String	Product name: The name of a Tencent Cloud product purchased by the user, such as CVM.
ProductCodeName	String	Subproduct name: The subcategory of a Tencent Cloud product purchased by the user, such as CVM – Standard S1.
PayModeName	String	Billing mode, which can be monthly subscription or pay-as-you-go.
ProjectName	String	Project name: The project to which a resource belongs, which is user-designated. If a resource has not been assigned to a project, it will automatically belong to the default project.
RegionName	String	Region: The region to which a resource belongs, such as South China (Guangzhou).
ZoneName	String	Availability zone: availability zone of a resource, e.g. Guangzhou Zone 3
ResourceId	String	Instance ID: The object ID of a billed resource, such as a CVM instance ID. This object ID may vary due to various forms and contents of resources in different products.
ResourceName	String	Instance name: The resource name set by the user in the console. If it is not set, it will be empty by default.
ActionTypeName	String	Transaction type, which can be monthly subscription

		purchase, monthly subscription renewal, or pay-as-you-go deduction.
OrderId	String	Order ID: The order number for a monthly subscription purchase
BillId	String	Transaction ID: The bill number for a deducted payment
PayTime	Timestamp	Transaction time: The time at which a payment was deducted
FeeBeginTime	Timestamp	Usage start time: The time at which product or service usage starts
FeeEndTime	Timestamp	Usage end time: The time at which product or service usage ends
ComponentSet	Array of BillDetailComponent	Component list
PayerUin	String	Payer account ID: The account ID of the payer, which is the unique identifier of a Tencent Cloud user.
OwnerUin	String	Owner account ID: The account ID of the actual resource user
OperateUin	String	Operator account ID: The account or role ID of the operator who purchases or activates a resource
Tags	Array of BillTagInfo	Tag information. Note: This field may return null, indicating that no valid values can be obtained.
BusinessCode	String	Product code. Note: This field may return null, indicating that no valid values can be obtained.
ProductCode	String	Subproduct code. Note: This field may return null, indicating that no valid values can be obtained.
ActionType	String	Transaction type code. Note: This field may return null, indicating that no valid values can be obtained.
RegionId	String	Region ID. Note: This field may return null, indicating that no valid values can be obtained.
ProjectId	Integer	Project ID
PriceInfo	Array of String	Price attribute: A set of attributes which will determine the price of a component, apart from unit price and usage

		duration. Note: This field may return null, indicating that no valid values can be obtained.
AssociatedOrder	BillDetailAssociatedOrder	Associated transaction document ID: The ID of the document associated with a transaction, such as a write-off order, the original order showing a deduction error during first settlement, a restructured order, or the original purchase order corresponding to a refund order. Note: This field may return null, indicating that no valid values can be obtained.
Formula	String	Calculation formula: The detailed calculation formula for a specific transaction type, such as refund or configuration change. Note: This field may return null, indicating that no valid values can be obtained.
FormulaUrl	String	Billing rules: Official website links for detailed billing rules of each product. Note: This field may return null, indicating that no valid values can be obtained.
BillDay	String	Billing dayNote: This field may return null, indicating that no valid values can be obtained.
BillMonth	String	Billing monthNote: This field may return null, indicating that no valid values can be obtained.
Id	String	Billing record IDNote: This field may return null, indicating that no valid values can be obtained.
RegionType	String	Domestic and international codesNote: This field may return null, indicating that no valid values can be obtained.
RegionTypeName	String	Domestic and International: The region type to which the resource belongs (domestic, international)Note: This field may return null, indicating that no valid values can be obtained.
ReserveDetail	String	Note attributes (instance configuration): Other note information, such as the reserved instance, the reserved instance type, the transaction type, and the region information on both ends of the CCN product.Note: This field may return null, indicating that no valid values can be obtained.

BillDetailAssociatedOrder

Information of the document associated with bill details

Used by actions: DescribeBillDetail, DescribeBillDetailForOrganization.

Name	Type	Description
PrepayPurchase	String	Purchase order. Note: This field may return null, indicating that no valid values can be obtained.
PrepayRenew	String	Renewal order. Note: This field may return null, indicating that no valid values can be obtained.
PrepayModifyUp	String	Upgrade order. Note: This field may return null, indicating that no valid values can be obtained.
ReverseOrder	String	Write-off order. Note: This field may return null, indicating that no valid values can be obtained.
NewOrder	String	The order after discount. Note: This field may return null, indicating that no valid values can be obtained.
Original	String	The original order before discount. Note: This field may return null, indicating that no valid values can be obtained.

BillDetailComponent

Information about components charged in the bill

Used by actions: DescribeBillDetail, DescribeBillDetailForOrganization.

Name	Type	Description
ComponentCodeName	String	Component type: The component type of a product or service purchased, such as CVM instance components including CPU and memory.
ItemCodeName	String	Component name: The specific component of a product or service purchased
SinglePrice	String	Component list price: The listed unit price of a component. If a customer has applied for a fixed preferential price or contract price, this parameter will not be displayed by default.

PriceUnit	String	Component price measurement unit: The unit of measurement for a component price, which is composed of USD, usage unit, and duration unit.
UsedAmount	String	Component usage: The actually settled usage of a component, which is "Raw usage - Deducted usage (including packages)".
UsedAmountUnit	String	Component usage unit: The unit of measurement for component usage
RealTotalMeasure	String	Raw usage/duration: The raw usage/duration of a component before deduction. Note: This field may return null, indicating that no valid values can be obtained.
DeductedMeasure	String	Deducted usage/duration (including packages): The usage/duration deducted with a package. Note: This field may return null, indicating that no valid values can be obtained.
TimeSpan	String	Usage duration: The resource usage duration
TimeUnitName	String	Duration unit: The unit of measurement for usage duration
Cost	String	Original cost: The original cost of a resource, which is "List price x Usage x Usage duration". If a customer has applied for a fixed preferential price or contract price or is in a refund scenario, this parameter will not be displayed by default.
Discount	String	Discount multiplier: The discount multiplier applied to the cost of the resource. If a customer has applied for a fixed preferential price or contract price or is in a refund scenario, this parameter will not be displayed by default.
ReduceType	String	Offer type
RealCost	String	Total amount after discount: Total amount after discount = (Original cost - RI deduction (cost) - SP deduction (cost)) x Discount multiplier
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
CashPayAmount	String	Cash credit: The amount paid from the user’s cash

		account
IncentivePayAmount	String	Free credit: The amount paid with the user’s free credit
TransferPayAmount	String	Commission credit: The amount paid with the user’s commission credit. Note: This field may return null, indicating that no valid values can be obtained.
ItemCode	String	Component type code. Note: This field may return null, indicating that no valid values can be obtained.
ComponentCode	String	Component name code. Note: This field may return null, indicating that no valid values can be obtained.
ContractPrice	String	Component contracted price: The contracted unit price of a component, which is "List price x Discount". Note: This field may return null, indicating that no valid values can be obtained.
InstanceType	String	Instance type: The instance type of a product or service purchased, which can be resource package, RI, SP, or spot instance. Other instance types are not displayed by default. Note: This field may return null, indicating that no valid values can be obtained.
RiTimeSpan	String	RI deduction (duration): The usage duration deducted by RI. Note: This field may return null, indicating that no valid values can be obtained.
OriginalCostWithRI	String	RI deduction (cost): The amount deducted from the original cost by RI. Note: This field may return null, indicating that no valid values can be obtained.
SPDeductionRate	String	Savings plan deduction rate: The discount multiplier that applies to the component based on the remaining commitment of the savings plan. Note: This field may return null, indicating that no valid values can be obtained.
OriginalCostWithSP	String	SP deduction (cost): SP deduction (cost) = Cost deduction by SP / SP deduction rate. Note: This field may return null, indicating that no valid values can be obtained.
BlendedDiscount	String	Blended discount multiplier: The final discount multiplier that is applied after combining multiple

		discount types, which is "Total amount after discount / Original cost". Note: This field may return null, indicating that no valid values can be obtained.
ComponentConfig	Array of BillDetailComponentConfig	Configuration description: The specification configuration of an instance. Note: This field may return null, indicating that no valid values can be obtained.

BillDetailComponentConfig

Bill details configuration descriptions

Used by actions: DescribeBillDetail, DescribeBillDetailForOrganization.

Name	Type	Description
Name	String	Configuration description name Note: This field may return null, indicating that no valid values can be obtained.
Value	String	Configuration description value Note: This field may return null, indicating that no valid values can be obtained.

BillDistributionResourceSummary

Summary objects for a reseller bill

Used by actions: DescribeBillResourceSummaryForOrganization.

Name	Type	Description
BusinessCodeName	String	Product name: The name of a Tencent Cloud product purchased by the user, such as CVM.
ProductCodeName	String	Subproduct name: The subcategory of a Tencent Cloud product purchased by the user, such as CVM - Standard S1.
PayModeName	String	Billing mode: The billing mode, which can be monthly subscription or pay-as-you-go.
ProjectName	String	Project Name: The project to which a resource belongs, which is user-designated. If a resource has not been assigned to a project, it will automatically belong to the default project.

RegionName	String	Region: The region of a resource, e.g. South China (Guangzhou).
ZoneName	String	Availability zone: The availability zone of a resource, e.g. Guangzhou Zone 3.
ResourceId	String	Instance ID: The object ID of a billed resource, such as a CVM instance ID. This object ID may vary due to various forms and contents of resources in different products.
ResourceName	String	Instance name: The resource name set by the user in the console. If it is not set, it will be empty by default.
ActionTypeName	String	Transaction type, which can be monthly subscription purchase, monthly subscription renewal, pay-as-you-go deduction, etc.
OrderId	String	Order ID: The ID of a monthly subscription order.
PayTime	Timestamp	Deduction time: The settlement cost deduction time.
FeeBeginTime	Timestamp	Usage start time: The time at which product or service usage starts.
FeeEndTime	Timestamp	Usage end time: The time at which product or service usage ends.
ConfigDesc	String	Configuration description: The billable item names and usage of a resource, which are displayed on the resource bill only.
ExtendField1	String	Extended Field 1: The extended attribute information of a product, which is displayed on the resource bill only.
ExtendField2	String	Extended field 2: The extended attribute information of a product, which is displayed on the resource bill only.
TotalCost	String	Original cost. The original cost of a component = Component price x Usage x Usage duration. If a customer has applied for a fixed preferential price or contract price or if a customer is in a refund scenario, this parameter will not be displayed by default.
Discount	String	Discount multiplier: The discount multiplier that applies to the component. If a customer has applied for a fixed preferential price or contract price or if a customer is in a refund scenario, this parameter will not be displayed by default.
ReduceType	String	Offer type.
RealTotalCost	String	Total amount after discount.
VoucherPayAmount	String	Voucher payment: The voucher deduction amount.
CashPayAmount	String	Cash credit payment: The amount paid through the user's cash account.

IncentivePayAmount	String	Free credit payment: The amount paid with the user's free credit.
TransferPayAmount	String	Commission credit payment: The amount paid with the user's commission credit. Note: This field may return null, indicating that no valid values can be obtained.
ExtendField3	String	Extended field 3: The extended attribute information of a product, which is displayed on the resource bill only.
ExtendField4	String	Extended field 4: The extended attribute information of a product, which is displayed on the resource bill only.
ExtendField5	String	Extended field 5: The extended attribute information of a product, which is displayed on the resource bill only.
Tags	Array of BillTagInfo	Tag information. Note: This field may return null, indicating that no valid values can be obtained.
OwnerUin	String	Owner account ID: The account ID of the actual resource user.
OperateUin	String	Operator account ID: The account or role ID of the operator who purchases or activates a resource.
BusinessCode	String	Product code.
ProductCode	String	Subproduct code.
RegionId	Integer	Region ID.
InstanceType	String	Instance type: The instance type of a product or service purchased, which can be resource package, RI, SP, or spot instance. Other instance types are not displayed by default.
OriginalCostWithRI	String	RI deduction (cost): The amount deducted from the original cost by RI.
OriginalCostWithSP	String	SP deduction (cost): The amount of cost deducted by a savings plan based on the component's original cost. SP deduction (cost) = Cost deduction by SP / SP deduction rate
BillMonth	String	Billing monthNote: This field may return null, indicating that no valid values can be obtained.

BillResourceSummary

Information about resources charged in the bill

Used by actions: DescribeBillResourceSummary.

Name	Type	Description
BusinessCodeName	String	Product name: The name of a Tencent Cloud product purchased by the user, such as CVM.
ProductCodeName	String	Subproduct name: The subcategory of a Tencent Cloud product purchased by the user, such as CVM – Standard S1.
PayModeName	String	Billing mode, which can be monthly subscription or pay-as-you-go.
ProjectName	String	Project name: The project to which a resource belongs, which is user-designated. If a resource has not been assigned to a project, it will automatically belong to the default project.
RegionName	String	Region: The region to which a resource belongs, such as South China (Guangzhou).
ZoneName	String	Availability zone: The availability zone to which a resource belongs, such as Guangzhou Zone 3.
ResourceId	String	Instance ID: The object ID of a billed resource, such as a CVM instance ID. This object ID may vary due to various forms and contents of resources in different products.
ResourceName	String	Instance name: The resource name set by the user in the console. If it is not set, it will be empty by default.
ActionTypeName	String	Transaction type, which can be monthly subscription purchase, monthly subscription renewal, or pay-as-you-go deduction.
OrderId	String	Order ID: The order number for a monthly subscription purchase
PayTime	Timestamp	Transaction time: The time at which a payment was deducted
FeeBeginTime	Timestamp	Usage start time: The time at which product or service usage starts
FeeEndTime	Timestamp	Usage end time: The time at which product or service usage ends
ConfigDesc	String	Configuration description: The billable item names and usage of a resource, which are displayed on the resource bill only.
ExtendField1	String	Extended field 1: Extended attribute information of a product, which is displayed on the resource bill only.
ExtendField2	String	Extended field 2: Extended attribute information of a product, which is

		displayed on the resource bill only.
TotalCost	String	Original cost: The original cost of a resource, which is "List price x Usage x Usage duration". If a customer has applied for a fixed preferential price or contract price or applied for a refund, this parameter will not be displayed by default.
Discount	String	Discount multiplier: The discount multiplier applied to the cost of the resource. If a customer has applied for a fixed preferential price or contract price or applied for a refund, this parameter will not be displayed by default.
ReduceType	String	Offer type
RealTotalCost	String	Total amount after discount
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
CashPayAmount	String	Cash credit: The amount paid from the user's cash account
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit. Note: This field may return null, indicating that no valid values can be obtained.
ExtendField3	String	Extended field 3: Extended attribute information of a product, which is displayed on the resource bill only.
ExtendField4	String	Extended field 4: Extended attribute information of a product, which is displayed on the resource bill only.
ExtendField5	String	Extended field 5: Extended attribute information of a product, which is displayed on the resource bill only.
Tags	Array of BillTagInfo	Tag information. Note: This field may return null, indicating that no valid values can be obtained.
PayerUin	String	Payer account ID: The account ID of the payer, which is the unique identifier of a Tencent Cloud user.
OwnerUin	String	Owner account ID: The account ID of the actual resource user
OperateUin	String	Operator account ID: The account or role ID of the operator who purchases or activates a resource.
BusinessCode	String	Product code
ProductCode	String	Subproduct code

RegionId	Integer	Region ID
InstanceType	String	Instance type: The instance type of a product or service purchased, which can be resource package, RI, SP, or spot instance. Other instance types are not displayed by default.
OriginalCostWithRI	String	RI deduction (cost): The amount deducted from the original cost by RI
OriginalCostWithSP	String	SP deduction (cost): SP deduction (cost) = Cost deduction by SP / SP deduction rate
BillMonth	String	Billing monthNote: This field may return null, indicating that no valid values can be obtained.

BillTagInfo

Bill tag information.

Used by actions: DescribeBillDetail, DescribeBillDetailForOrganization, DescribeBillResourceSummary, DescribeBillResourceSummaryForOrganization.

Name	Type	Description
TagKey	String	Cost allocation tag key
TagValue	String	Tag value

BusinessSummaryInfo

Detailed summary of products

Used by actions: DescribeBillSummary, DescribeBillSummaryForOrganization.

Name	Type	Description
BusinessCode	String	Product code
BusinessCodeName	String	Product name: The name of a Tencent Cloud product purchased by the user, such as CVM.
TotalCost	String	Original cost in USD. This parameter became valid when Bill 3.0 took effect in May 2021. Before that, `-` was returned for this parameter. If a customer has applied for a contract price different from the prices listed on the official

		website, `-` will also be returned for this parameter. Note: This field may return null, indicating that no valid values can be obtained.
RealTotalCost	String	Total amount after discount
CashPayAmount	String	Cash credit: The amount paid from the user's cash account
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit. Note: This field may return null, indicating that no valid values can be obtained.

BusinessSummaryOverviewItem

Summarize product details by product

Used by actions: DescribeBillSummaryByProduct.

Name	Type	Description
BusinessCode	String	Product code. Note: This field may return null, indicating that no valid values can be obtained.
BusinessCodeName	String	Product name: The name of a Tencent Cloud product purchased by the user, such as CVM.
RealTotalCostRatio	String	Cost ratio, to two decimal points
RealTotalCost	String	Total amount after discount
CashPayAmount	String	Cash credit: The amount paid from the user's cash account
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit.
BillMonth	String	Billing month, e.g. `2019-08`
TotalCost	String	The original cost in USD. This parameter has become valid since v3.0 bills took effect in May 2021, and before that `-` was returned for this parameter.

		If a customer uses a contract price different from the published price, `-` will also be returned for this parameter.

BusinessSummaryTotal

Summarize total cost by product

Used by actions: DescribeBillSummaryByProduct.

Name	Type	Description
RealTotalCost	String	Total amount after discount
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit
CashPayAmount	String	Cash credit: The amount paid from the user's cash account
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit.
TotalCost	String	The original cost in USD. This parameter has become valid since v3.0 bills took effect in May 2021, and before that `-` was returned for this parameter. If a customer uses a contract price different from the published price, `-` will also be returned for this parameter.

ConditionBusiness

Product filter criteria

Used by actions: DescribeCostSummaryByResource.

Name	Type	Description
BusinessCode	String	Product name code
BusinessCodeName	String	Product name

ConditionPayMode

Payment mode filter criteria

Used by actions: DescribeCostSummaryByResource.

Name	Type	Description
PayMode	String	Payment mode
PayModeName	String	Payment mode name

ConditionProject

Project filter criteria

Used by actions: DescribeCostSummaryByResource.

Name	Type	Description
ProjectId	String	Project ID
ProjectName	String	Project name

ConditionRegion

Regional filter criteria

Used by actions: DescribeCostSummaryByResource.

Name	Type	Description
RegionId	String	Region ID
RegionName	String	Region name

Conditions

Billing filter criteria object

Used by actions: DescribeCostSummaryByResource.

Name	Type	Required	Description
TimeRange	Integer	No	Only supports two values: 6 and 12.

BusinessCode	String	No	Product name code
ProjectId	Integer	No	Project ID
RegionId	Integer	No	Region ID
PayMode	String	No	Payment mode. Options include prePay and postPay.
ResourceKeyword	String	No	Resource keyword
BusinessCodes	Array of String	No	Product name code
ProductCodes	Array of String	No	Subproduct name code
RegionIds	Array of Integer	No	Region ID
ProjectIds	Array of Integer	No	Project ID
PayModes	Array of String	No	Payment mode. Options include prePay and postPay.
ActionTypes	Array of String	No	Transaction type
HideFreeCost	Integer	No	Whether to hide zero-amount transactions
OrderByCost	String	No	Sorting rule. Options include desc and asc.
BillIds	Array of String	No	Transaction ID
ComponentCodes	Array of String	No	Component code
FileIds	Array of String	No	File ID
FileTypes	Array of String	No	File type
Status	Array of Integer	No	Status

ConsumptionBusinessSummaryDataItem

Consumption details summarized by product

Used by actions: DescribeCostSummaryByProduct, DescribeCostSummaryByProject, DescribeCostSummaryByRegion.

Name	Type	Description
BusinessCode	String	Product name code

BusinessCodeName	String	Product name
RealTotalCost	String	Discounted total price
Trend	ConsumptionSummaryTrend	Cost trend
CashPayAmount	String	Cash Note: This field may return null, indicating that no valid values can be obtained.
IncentivePayAmount	String	Bonus Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	VoucherNote: This field may return null, indicating that no valid values can be obtained.
TransferPayAmount	String	Share revenueNote: This field may return null, indicating that no valid values can be obtained.
RegionName	String	Region name (only shown in regional summary) Note: This field may return null, indicating that no valid values can be obtained.

ConsumptionProjectSummaryDataItem

Consumption details summarized by project

Used by actions: DescribeCostSummaryByProject.

Name	Type	Description
ProjectId	String	Project ID
ProjectName	String	Project name
RealTotalCost	String	Discounted total price
Trend	ConsumptionSummaryTrend	Trend
Business	Array of ConsumptionBusinessSummaryDataItem	Product consumption details
CashPayAmount	String	Cash Note: This field may return null, indicating that no valid values can be obtained.

IncentivePayAmount	String	Bonus Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	VoucherNote: This field may return null, indicating that no valid values can be obtained.
TransferPayAmount	String	Share revenueNote: This field may return null, indicating that no valid values can be obtained.

ConsumptionRegionSummaryDataItem

Consumption details summarized by region

Used by actions: DescribeCostSummaryByRegion.

Name	Type	Description
RegionId	String	Region ID
RegionName	String	Region name
RealTotalCost	String	Discounted total price
Trend	ConsumptionSummaryTrend	Trend
Business	Array of ConsumptionBusinessSummaryDataItem	Product consumption details
CashPayAmount	String	Cash Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	VoucherNote: This field may return null, indicating that no valid values can be obtained.
IncentivePayAmount	String	Bonus Note: This field may return null, indicating that no valid values can be obtained.
TransferPayAmount	String	Share revenueNote: This field may return null, indicating that no valid values can be obtained.

ConsumptionResourceSummaryConditionValue

Filter criteria of consumption details summarized by resource

Used by actions: DescribeCostSummaryByResource.

Name	Type	Description
Business	Array of ConditionBusiness	Product list
Project	Array of ConditionProject	Project list
Region	Array of ConditionRegion	Region list
PayMode	Array of ConditionPayMode	Payment mode list

ConsumptionResourceSummaryDataItem

Consumption details summarized by resource

Used by actions: DescribeCostSummaryByResource.

Name	Type	Description
ResourceId	String	Resource ID
ResourceName	String	Resource name
RealTotalCost	String	Discounted total price
CashPayAmount	String	Cash expenditure
ProjectId	String	Project ID
ProjectName	String	Project name
RegionId	String	Region ID
RegionName	String	Region name
PayMode	String	Payment mode
PayModeName	String	Payment mode name

BusinessCode	String	Product name code
BusinessCodeName	String	Product name
ConsumptionTypeName	String	Consumption type
RealCost	String	Pre-discount priceNote: This field may return null, indicating that no valid values can be obtained.
FeeBeginTime	String	Start time of feesNote: This field may return null, indicating that no valid values can be obtained.
FeeEndTime	String	End time of feesNote: This field may return null, indicating that no valid values can be obtained.
DayDiff	String	Days Note: This field may return null, indicating that no valid values can be obtained.
DailyTotalCost	String	Daily consumptionNote: This field may return null, indicating that no valid values can be obtained.
OrderId	String	Order numberNote: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	VoucherNote: This field may return null, indicating that no valid values can be obtained.
IncentivePayAmount	String	Bonus Note: This field may return null, indicating that no valid values can be obtained.
TransferPayAmount	String	Share revenueNote: This field may return null, indicating that no valid values can be obtained.
PayerUin	String	Payer UIN: the account ID of the payer, which is the unique identifier of a Tencent Cloud userNote: This field may return null, indicating that no valid values can be obtained.
OwnerUin	String	User UIN: the account ID of the actual resource userNote: This field may return null, indicating that no valid values can be obtained.
OperateUin	String	Operator UIN: the account ID or role ID of the operator who places orders for prepaid resources or activates postpaid resourcesNote: This field may return null, indicating that no valid values can be obtained.
ProductCode	String	Subproduct codeNote: This field may return null, indicating that no valid values can be obtained.

ProductCodeName	String	Subproduct name: the subcategory of a product purchased by the user, such as CVM – Standard S1Note: This field may return null, indicating that no valid values can be obtained.
RegionType	String	Region typeNote: This field may return null, indicating that no valid values can be obtained.
RegionTypeName	String	Region type nameNote: This field may return null, indicating that no valid values can be obtained.
Extend1	String	Extended field 1Note: This field may return null, indicating that no valid values can be obtained.
Extend2	String	Extended field 2Note: This field may return null, indicating that no valid values can be obtained.
Extend3	String	Extended field 3Note: This field may return null, indicating that no valid values can be obtained.
Extend4	String	Extended field 4Note: This field may return null, indicating that no valid values can be obtained.
Extend5	String	Extended field 5Note: This field may return null, indicating that no valid values can be obtained.
InstanceType	String	Instance typeNote: This field may return null, indicating that no valid values can be obtained.
InstanceTypeName	String	Instance type nameNote: This field may return null, indicating that no valid values can be obtained.
PayTime	String	Deduction time: the time at which a payment is deductedNote: This field may return null, indicating that no valid values can be obtained.
ZoneName	String	Availability zone: availability zone of a resource, e.g. Guangzhou Zone 3Note: This field may return null, indicating that no valid values can be obtained.
ComponentConfig	String	Configuration descriptionNote: This field may return null, indicating that no valid values can be obtained.

ConsumptionSummaryTotal

Consumption summary details

Used by actions: DescribeCostSummaryByProduct, DescribeCostSummaryByProject, DescribeCostSummaryByRegion, DescribeCostSummaryByResource.

Name	Type	Description
RealTotalCost	String	Discounted total price

ConsumptionSummaryTrend

Consumption cost trend

Used by actions: DescribeCostSummaryByProduct, DescribeCostSummaryByProject, DescribeCostSummaryByRegion.

Name	Type	Description
Type	String	Trend type, upward for rising, downward for falling, none for no change
Value	String	Trend value. The value is null when Type is none.Note: This field may return null, indicating that no valid values can be obtained.

CosDetailSets

Information about the data structure of the returned COS usage details

Used by actions: DescribeDosageCosDetailByDate.

Name	Type	Description
BucketName	String	Bucket name
DosageBeginTime	String	The start time of the usage
DosageEndTime	String	The end time of the usage
SubProductCodeName	String	Subproduct name
BillingItemCodeName	String	Billable item name
DosageValue	String	Usage
Unit	String	Unit of the billable item

CostComponentSet

Consumption component details

Used by actions: DescribeCostDetail.

Name	Type	Description
ComponentCodeName	String	Component type name
ItemCodeName	String	Component name
SinglePrice	String	List price
PriceUnit	String	List price unit
UsedAmount	String	Usage
UsedAmountUnit	String	Usage unit
Cost	String	Original price
Discount	String	Discount
RealCost	String	Discounted price
VoucherPayAmount	String	Voucher payment amount
CashPayAmount	String	Cash payment amount
IncentivePayAmount	String	Bonus payment amount

CostDetail

Consumption details data type

Used by actions: DescribeCostDetail.

Name	Type	Description
PayerUin	String	Payer UIN
BusinessCodeName	String	Product name
ProductCodeName	String	Subproduct name

PayModeName	String	Billing mode name
ProjectName	String	Project name
RegionName	String	Region Name
ZoneName	String	Zone name
ResourceId	String	Resource ID
ResourceName	String	Resource name
ActionTypeName	String	Type nameNote: This field may return null, indicating that no valid values can be obtained.
OrderId	String	Order ID
BillId	String	Transaction ID
FeeBeginTime	String	Start time of fees
FeeEndTime	String	End time of fees
ComponentSet	Array of CostComponentSet	Component details
ProductCode	String	Subproduct name code

DistributionBillDetail

Objects of reseller bill details

Used by actions: DescribeBillDetailForOrganization.

Name	Type	Description
BusinessCodeName	String	Product name: The name of a Tencent Cloud product purchased by the user, such as CVM.
ProductCodeName	String	Subproduct name: The subcategory of a Tencent Cloud product purchased by the user, such as CVM - Standard S1.
PayModeName	String	Billing mode: The billing mode, which can be monthly subscription or pay-as-you-go.
ProjectName	String	Project Name: The project to which a resource belongs,

		which is user-designated. If a resource has not been assigned to a project, it will automatically belong to the default project.
RegionName	String	Region: The region of a resource, e.g. South China (Guangzhou).
ZoneName	String	Availability zone: availability zone of a resource, e.g. Guangzhou Zone 3.
ResourceId	String	Instance ID: The object ID of a billed resource, such as a CVM instance ID. This object ID may vary due to various forms and contents of resources in different products.
ResourceName	String	Instance name: The resource name set by the user in the console. If it is not set, it will be empty by default.
ActionTypeName	String	Transaction type, which can be monthly subscription purchase, monthly subscription renewal, pay-as-you-go deduction, etc.
OrderId	String	Order ID: The ID of a monthly subscription order.
BillId	String	Transaction ID: The ID of a settlement bill.
PayTime	Timestamp	Deduction time: The settlement cost deduction time.
FeeBeginTime	Timestamp	Usage start time: The time at which product or service usage starts.
FeeEndTime	Timestamp	Usage end time: The time at which product or service usage ends.
ComponentSet	Array of BillDetailComponent	List of components.
OwnerUin	String	Owner account ID: The account ID of the actual resource user.
OperateUin	String	Operator account ID: The account or role ID of the operator who purchases or activates a resource.
Tags	Array of BillTagInfo	Tag information. Note: This field may return null, indicating that no valid values can be obtained.
BusinessCode	String	Product code. Note: This field may return null, indicating that no valid

		values can be obtained.
ProductCode	String	Subproduct code. Note: This field may return null, indicating that no valid values can be obtained.
ActionType	String	Transaction type code. Note: This field may return null, indicating that no valid values can be obtained.
RegionId	String	Region ID. Note: This field may return null, indicating that no valid values can be obtained.
ProjectId	Integer	Project ID.
PriceInfo	Array of String	Price attribute: A set of attributes which will determine the price of a component, apart from unit price and usage duration. Note: This field may return null, indicating that no valid values can be obtained.
AssociatedOrder	BillDetailAssociatedOrder	Associated transaction document ID: The ID of the document associated with a transaction, such as a write-off order, the original order showing a deduction error during first settlement, a restructured order, or the original purchase order corresponding to a refund order. Note: This field may return null, indicating that no valid values can be obtained.
Formula	String	Calculation formula: The detailed calculation formula for a specific transaction type, such as refund or configuration change. Note: This field may return null, indicating that no valid values can be obtained.
FormulaUrl	String	Billing rules: Official website links for detailed billing rules of each product. Note: This field may return null, indicating that no valid values can be obtained.
BillMonth	String	Billing monthNote: This field may return null, indicating that no valid values can be obtained.
BillDay	String	Billing dayNote: This field may return null, indicating that no valid values can be obtained.

ExcludedProducts

The products that are not applicable.

Used by actions: DescribeVoucherInfo.

Name	Type	Description
GoodsName	String	The names of non-applicable products.
PayMode	String	`postPay` : pay-as-you-go; `prePay` : prepaid; `riPay` : reserved instance; empty or `*` : all.

PayModeSummaryOverviewItem

Detailed summary of costs by billing mode

Used by actions: DescribeBillSummaryByPayMode.

Name	Type	Description
PayMode	String	Billing mode code
PayModeName	String	Billing mode, which can be monthly subscription or pay-as-you-go.
RealTotalCostRatio	String	Cost ratio, to two decimal points
RealTotalCost	String	Total amount after discount
CashPayAmount	String	Cash credit: The amount paid from the user’s cash balance
IncentivePayAmount	String	Free credit: The amount paid with the user’s free credit
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
TransferPayAmount	String	Commission credit: The amount paid with the user’s commission credit.
TotalCost	String	The original cost in USD. This parameter has become valid since v3.0 bills took effect in May 2021, and before that `-` was returned for this parameter. If a customer uses a contract price different from the

		published price, `-` will also be returned for this parameter.
Detail	Array of ActionSummaryOverviewItem	Detailed summary of costs by transaction type

ProjectSummaryOverviewItem

Detailed summary of purchases by project

Used by actions: DescribeBillSummaryByProject.

Name	Type	Description
ProjectId	String	Project ID
ProjectName	String	Project name: The project to which a resource belongs, which is user-designated. If a resource has not been assigned to a project, it will automatically belong to the default project.
RealTotalCostRatio	String	Cost ratio, to two decimal points
RealTotalCost	String	Total amount after discount
CashPayAmount	String	Cash credit: The amount paid from the user's cash account
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit.
BillMonth	String	Billing month, e.g. `2019-08`
TotalCost	String	The original cost in USD. This parameter has become valid since v3.0 bills took effect in May 2021, and before that `-` was returned for this parameter. If a customer uses a contract price different from the published price, `-` will also be returned for this parameter.

RegionSummaryOverviewItem

Detailed summary of purchases by region

Used by actions: DescribeBillSummaryByRegion.

Name	Type	Description
RegionId	String	Region ID Note: This field may return null, indicating that no valid value was found.
RegionName	String	Region: The region to which a resource belongs, such as South China (Guangzhou).
RealTotalCostRatio	String	Cost ratio, to two decimal points
RealTotalCost	String	Total amount after discount
CashPayAmount	String	Cash credit: The amount paid from the user's cash account
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit.
BillMonth	String	Billing month, e.g. `2019-08`
TotalCost	String	The original cost in USD. This parameter has become valid since v3.0 bills took effect in May 2021, and before that `-` was returned for this parameter. If a customer uses a contract price different from the published price, `-` will also be returned for this parameter.

SummaryDetail

Detailed summary of costs by multiple dimensions

Used by actions: DescribeBillSummary, DescribeBillSummaryForOrganization.

Name	Type	Description
GroupKey	String	Bill dimension code. Note: This field may return null, indicating that no valid values can be obtained.
GroupValue	String	Bill dimension value. Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	Original cost in USD. This parameter has become valid since Bill 3.0 took effect in May 2021, and before that `-` was returned for this parameter. If a customer has applied for a

		contract price different from the prices listed on the official website, `-` will also be returned for this parameter.
RealTotalCost	String	Total amount after discount
CashPayAmount	String	Cash credit: The amount paid from the user's cash account
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit
VoucherPayAmount	String	Voucher payment: The voucher deduction amount
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit. Note: This field may return null, indicating that no valid values can be obtained.
Business	Array of BusinessSummaryInfo	Detailed summary of products. Note: This field may return null, indicating that no valid values can be obtained.

SummaryTotal

Total cost

Used by actions: DescribeBillSummaryByTag.

Name	Type	Description
RealTotalCost	String	Total amount after discount. Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	The original cost in USD. This parameter has become valid since v3.0 bills took effect in May 2021, and before that `-` was returned for this parameter. If a customer uses a contract price different from the published price, `-` will also be returned for this parameter. Note: this field may return `null`, indicating that no valid values can be obtained.

TagDataInfo

Tag information.

Used by actions: DescribeTagList.

Name	Type	Description

TagKey	String	Cost allocation tag key.
Status	Integer	Tag type. Valid values: `0` (general tags), `1` (cost allocation tags).
UpdateTime	String	Time to set the cost allocation tag. It will not be returned if `Status` is `0`. Note: This field may return null, indicating that no valid values can be obtained.

TagSummaryOverviewItem

Details about cost distribution over different tags.

Used by actions: DescribeBillSummaryByTag.

Name	Type	Description
TagValue	String	Tag value Note: This field may return null, indicating that no valid values can be obtained.
RealTotalCostRatio	String	Cost percentage rounded to two decimal places Note: This field may return null, indicating that no valid values can be obtained.
RealTotalCost	String	Total amount after discount. Note: This field may return null, indicating that no valid values can be obtained.
CashPayAmount	String	Cash credit: The amount paid from the user's cash account. Note: This field may return null, indicating that no valid values can be obtained.
IncentivePayAmount	String	Free credit: The amount paid with the user's free credit. Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	Voucher payment: The amount deducted by using vouchers. Note: This field may return null, indicating that no valid values can be obtained.
TransferPayAmount	String	Commission credit: The amount paid with the user's commission credit. Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	The original cost in USD. This parameter has become valid since v3.0 bills took effect in May 2021, and before that `-` was returned for this parameter. If a customer uses a contract price different from the published price, `-` will also be returned for this parameter. Note: this field may return `null`, indicating that no valid values can be obtained.

UsageDetails

The product purchased.

Used by actions: DescribeVoucherUsageDetails.

Name	Type	Description
ProductName	String	The name of the product. Note: This field may return `null` , indicating that no valid value was found.
SubProductName	String	

UsageRecords

The usage records.

Used by actions: DescribeVoucherUsageDetails.

Name	Type	Description
UsedAmount	Integer	The amount used. The value of this parameter is the amount used (USD, rounded to 8 decimal places) multiplied by 100,000,000.
UsedTime	String	The time when the voucher was used.
UsageDetails	Array of UsageDetails	The details of the product purchased. Note: This field may return `null` , indicating that no valid value was found.

VoucherInfos

Voucher information.

Used by actions: DescribeVoucherInfo.

Name	Type	Description
OwnerUin	String	The owner of the voucher.
Status	String	The status of the voucher: `unUsed` , `used` , `delivered` , `cancel` , `overdue`
NominalValue	Integer	The value of the voucher. The value of this parameter is the

		voucher value (USD, rounded to 8 decimal places) multiplied by 100,000,000.
Balance	Integer	The balance left. The value of this parameter is the balance left (USD, rounded to 8 decimal places) multiplied by 100,000,000.
VoucherId	String	The voucher ID.
PayMode	String	`postPay` : pay-as-you-go; `prePay` : prepaid; `riPay` : reserved instance; empty or `*` : all.
PayScene	String	If `PayMode` is `postPay` , this parameter may be `spotpay` (spot instance) or `settle account` (regular pay-as-you-go). If `PayMode` is `prePay` , this parameter may be `purchase` , `renew` , or `modify` (downgrade/upgrade). If `PayMode` is `riPay` , this parameter may be `oneOffFee` (prepayment of reserved instance) or `hourlyFee` (hourly billing of reserved instance). `*` means to query vouchers that support all billing scenarios.
BeginTime	String	The start time of the validity period.
EndTime	String	The end time of the validity period.
ApplicableProducts	ApplicableProducts	The products that are applicable. Note: This field may return `null` , indicating that no valid value was found.
ExcludedProducts	Array of ExcludedProducts	The products that are not applicable. Note: This field may return `null` , indicating that no valid value was found.

Error Codes

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Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
"Response": {
"Error": {
"Code": "AuthFailure.SignatureFailure",
"Message": "The provided credentials could not be validated. Please check your signature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	`Authorization` in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
FailedOperation.InvalidAppId	Invalid App ID.
FailedOperation.PayPriceError	Payment failed. Please contact Tencent Cloud to resolve this issue.
FailedOperation.QueryCountFailed	Failed to get the number of data entries.
FailedOperation.SummaryDataNotReady	Summary is being built. Please try again later.
FailedOperation.TagKeyNotExist	This cost allocation tag key does not exist.
InternalError.GatewayError	Gateway error.
InternalError.UnknownError	Undefined exception.
UnauthorizedOperation.CamNoAuth	The account does not have CAM permission.