Event Bridge

Event

Product Documentation

Contents

Event
Event Structure

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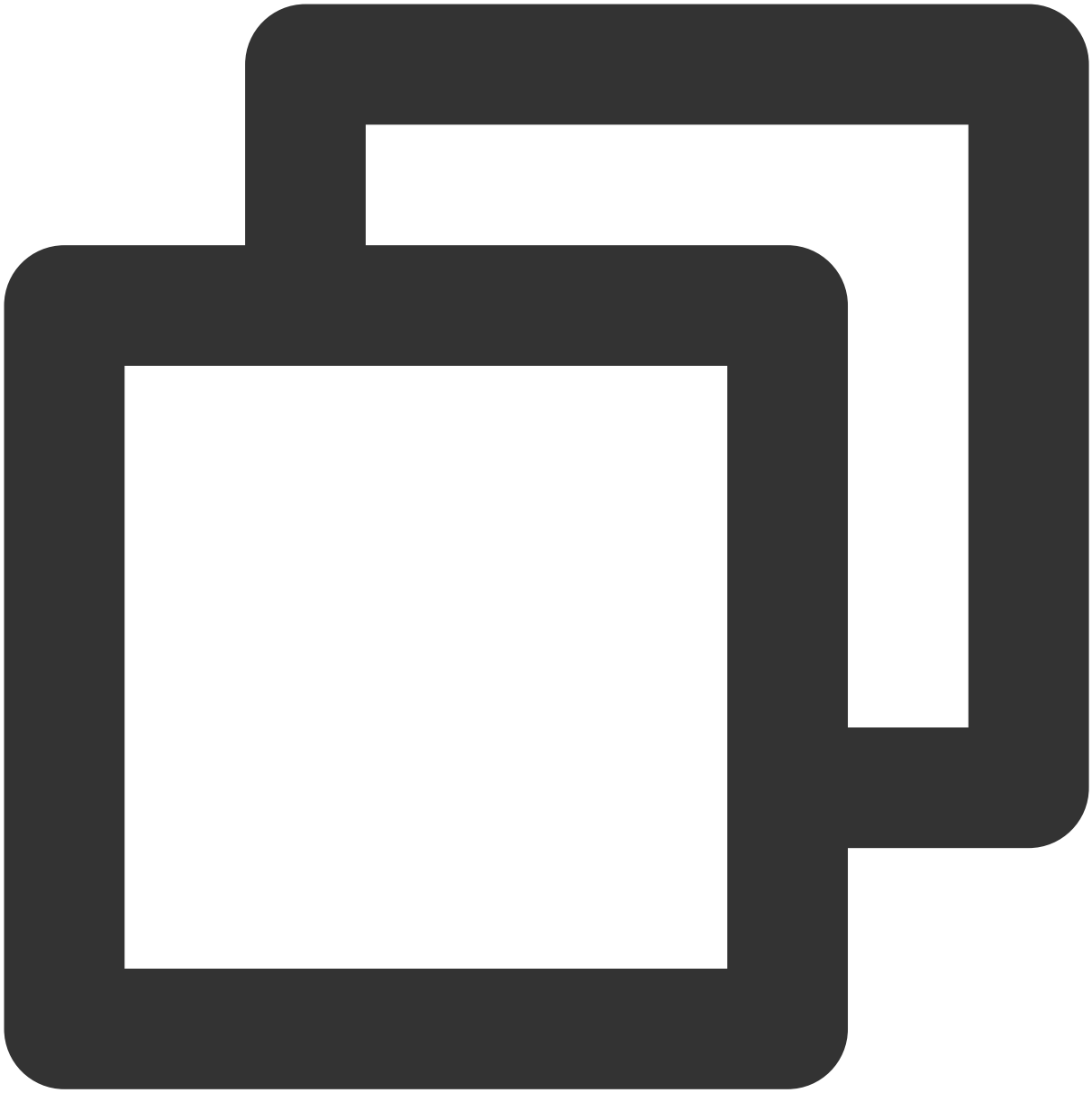
An event is a data record of a status change. This document describes the details of event parameters in EventBridge. Event release from an event source to EventBridge needs to comply with CloudEvents specifications. For more information, please see CloudEvents - Version 1.0.
Below is a sample structure of event release from an event source to EventBridge:



```
{
   "specversion":"1.0",
   "id":"13a3f42d-7258-4ada-da6d-023a333b4662",
   "type":"cos:created:object",
   "source":"cos.cloud.tencent",
   "subject":"qcs::cos:ap-guangzhou:uid1250000000:bucketname",
   "time":"1615430559146",
   "region":"ap-guangzhou",
   "datacontenttype": "application/json;charset=utf-8",
   "data":{
      $data_value
```

```
    }
}
```

The event parameters are as detailed below:

Field	Description	Data Type
specversion	Event structure version (CloudEvents version. Currently, only v1.0 is supported.)	String
id	ID returned by `PUT Event` .	String
type	Type of the event input through `PUT Event` . The value is `COS:Created:PostObject` by default for a Tencent Cloud service. Different types are separated with colons.	String
source	Event source (which is required for a Tencent Cloud service event and is the abbreviation of `subject`). The value is `xxx.cloud.tencent` by default for a Tencent Cloud service.	String
subject	Event source details, which can be customized. QCS description such as `qcs::dts:ap-guangzhou:appid/uin:xxx` is used for a Tencent Cloud service by default.	String
time	Event time, which is a GMT+0 timestamp in milliseconds such as `1615430559146` .	Timestamp
datacontenttype	Data structure declaration.	String
region	Region information.	String
data	Details of the event input through `PUT Event` .	Json

There are two types of events published from event sources to EventBridge:

Tencent Cloud service event

Tencent Cloud services are automatically connected to EventBridge as event sources.

Custom application event

To use your application as an event source, you need to configure a connector and deliver events to applications supported by the connector, or use an API/SDK to connect to EventBridge.

Custom Event

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Overview

Events generated by your own applications are custom events. You can deliver custom events in either of the following ways:

Using event connectors: A connector is mainly used to proactively pull events from event sources such as the message queue service and gateways and push them to a custom event bus in **standard format**. You can bind one or more connectors in the custom event bus to automatically pull event content from message queues and gateways and push the content to the specified custom event bus. For more connector information, see here.

API/SDK: For specifics, please refer to the API documentation.

Directions

The process of creating a custom event delivery linkage is as follows:

1. Create a custom event bus.
2. Create event connectors.
3. Create event rules.

Tencent Cloud Service Event Overview

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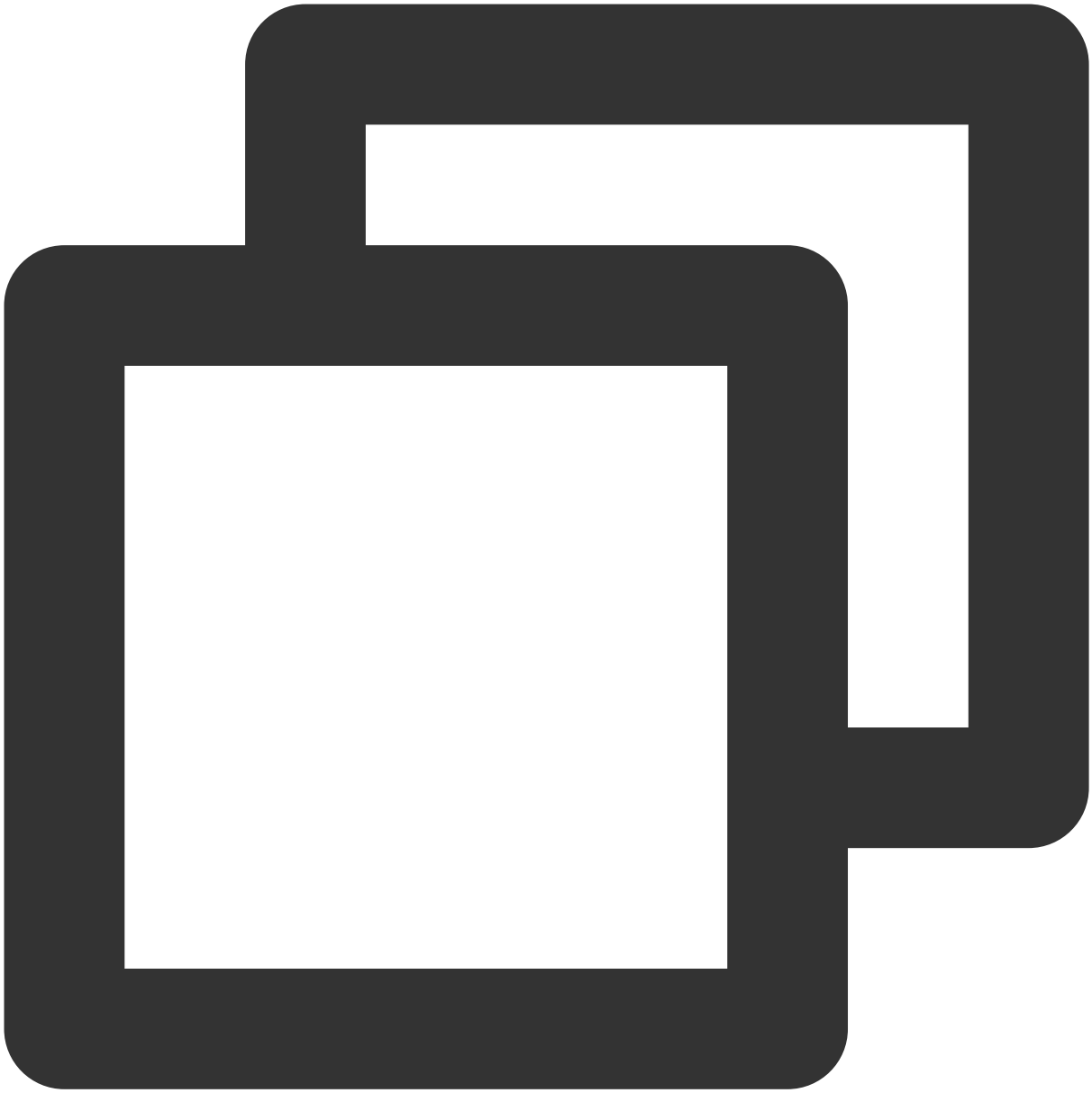
Note:
All OPS events, such as alerts and auditing events, generated by Tencent Cloud services are delivered to the Tencent Cloud service event bus, which is the default event bus and cannot be modified or deleted. You can go to the EventBridge console to bind rules and targets to the Tencent Cloud service event bus.

Tencent Cloud Service Event Overview

Tencent Cloud service events include **Cloud Monitor events** (such as CVM kernel faults and OOM exceptions) and **CloudAudit events** (available soon) that are generated by Tencent Cloud services. The event content to deliver varies depending on the event type:

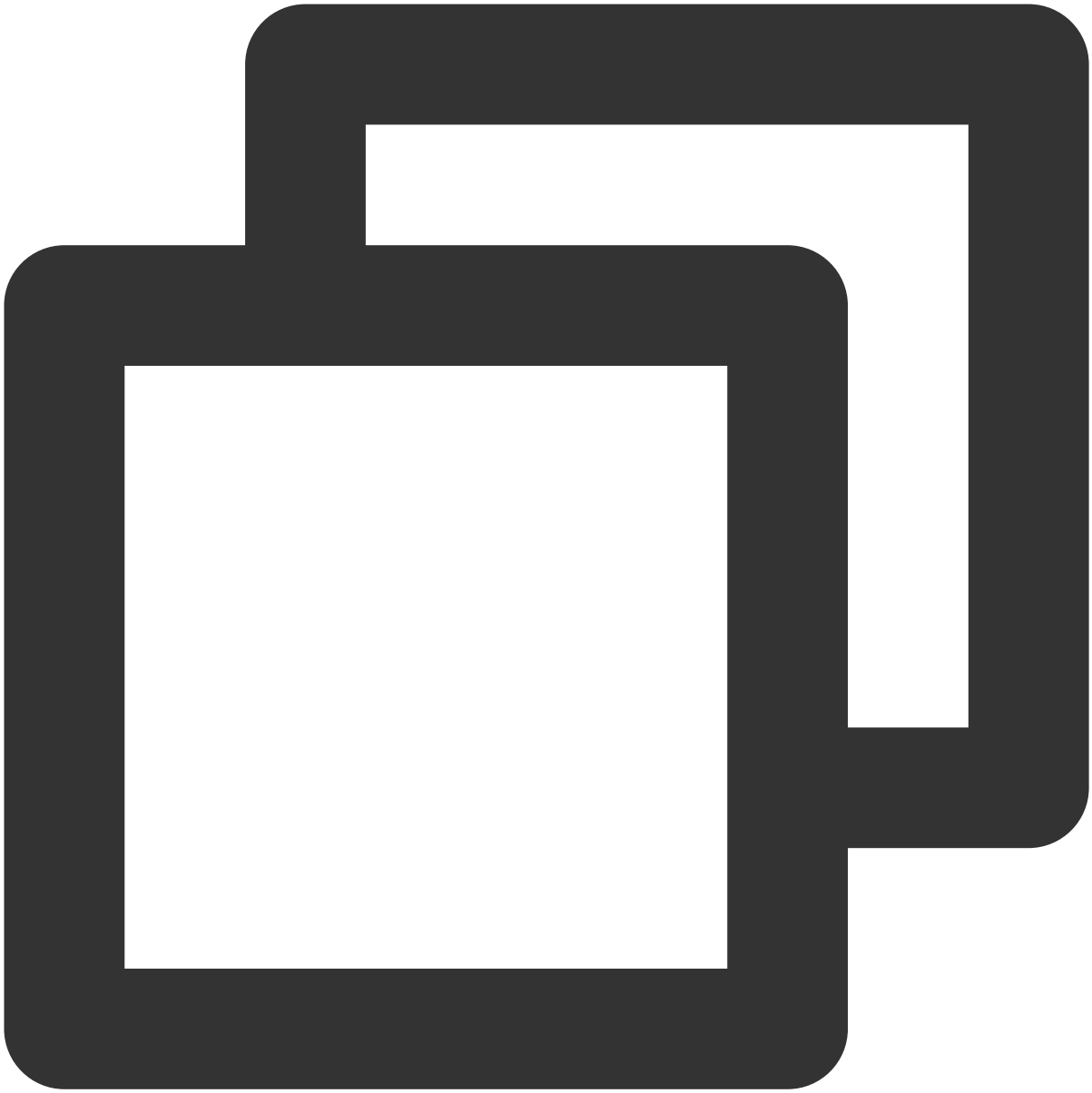
Cloud Monitor events



```
{
  "specversion":"1.0",
  "id":"13a3f42d-7258-4ada-da6d-023a333b4662",
  "source":"${ProductName}.cloud.tencent",
  "type":"cvm:ErrorEvent:ping_unreachable",
  "subject":"${resource ID}",
  "time": 1615430559146,
  "region":"ap-guangzhou",
  "resource":[
      "qcs::eb:ap-guangzhou:uid1250000000:eventbusid/eventruleid"
  ],
```

```
    "datacontenttype":"application/json;charset=utf-8",
    "tags":{
        "key1":"value1",
        "key2":"value2"
     },
    "status":"1",
    "data":{
        "appId":"1250000011",
        "instanceId":"ins-sjdksjk",
        "projectId":"11",
        "dimensions":{
            "ip":"127.0.0.1"
            },
        "additionalMsg":{
            "IP":"something unnormal"
            }
    }
}
```

CloudAudit events



```
{
  "specversion":"1.0",
  "id":"13a3f42d-7258-4ada-da6d-023a333b4662",
  "source":"${ProductName}.cloud.tencent",
  "type":"cvm:CloudEvent:ApiCall",
  "subject":"${resource ID}",
  "time": 1615430559146,
  "region":"ap-guangzhou",
  "resource":[
      "qcs::eb:ap-guangzhou:uid1250000000:eventbusid/eventruleid"
  ],
```

```
    "datacontenttype":"application/json;charset=utf-8",
    "tags":{
        "key1":"value1",
        "key2":"value2"
     },
    "data":{
        ${Raw API operation log}
    }
}
```

Tencent Cloud Service Alerts

Tencent Cloud will automatically trigger alerts for the high-priority events of all Tencent Cloud services. These events do not occur frequently, but the impact is relatively large. They are subscribed by all root accounts by default.

Attributes

Rule name: Tencent Cloud service default alert
Description: Alerts on high-priority events. These alerts are sent to Tencent Cloud root accounts by default.
Recipients：Root account
Time period: 00:00 to 23:59
Delivery method: SMS, Email

Limits

It’s NOT RECOMMENDED to change this rule. You can create new rules for specific needs.

List of Events

Cloud Monitor Event
CloudAudit Event

Best Practices

Real-Time Oceanus Alarm Message Push
Automatic Backup and Restart of Exceptional CVM Instance

Cloud Monitor Event Overview

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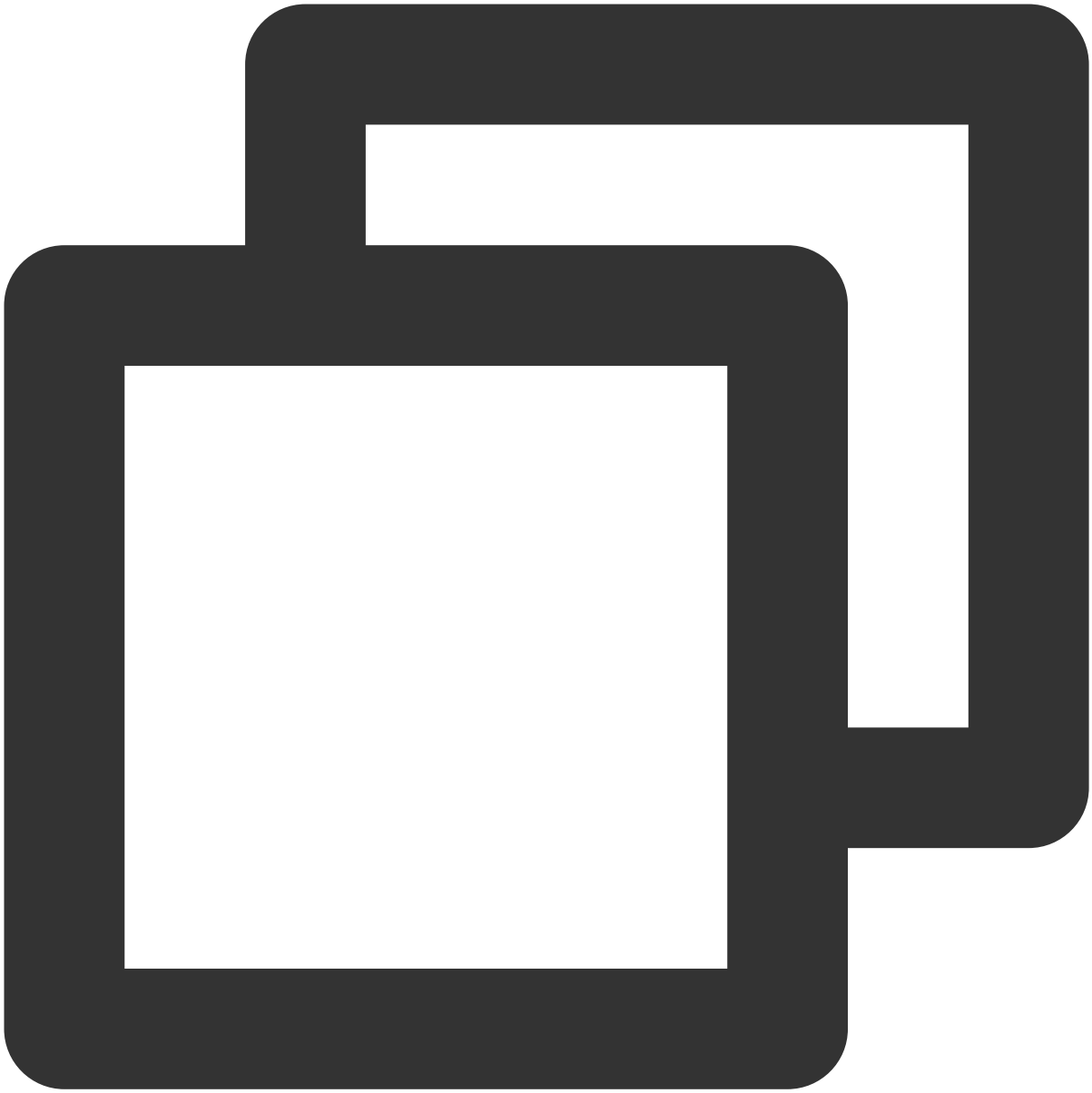
Introduction

Cloud service monitoring events generated on Tencent Cloud Observability Platform are important events that occur in the lifecycle and operation of various Tencent Cloud services and the underlying infrastructure and services. Tencent Cloud Observability Platform provides a centralized access for querying and statistically analyzing the events, which helps you associate resources and review exceptions, and supports your monitoring and OPS on the cloud.
Information sources of cloud service monitoring events are system logs and monitoring metrics of underlying service modules, which ensures the accuracy and value of the information.
Tencent Cloud Observability Platform has been fully integrated with EventBridge. After you activate EventBridge, all cloud service monitoring events will be automatically delivered to the Tencent Cloud service event bus.

Event Format

Taking a "ping unreachable" event generated by CVM as an example, the standard format for delivering the event to EventBridge is as follows:



```
{
    "specversion":"1.0",
    "id":"13a3f42d-7258-4ada-da6d-023a333b4662",
    "source":"${ProductName}.cloud.tencent",
    "type":"cvm:ErrorEvent:ping_unreachable",
    "subject":"${resource ID}",
    "time": 1615430559146,
    "region":"ap-guangzhou",
    "resource":[
        "qcs::eb:ap-guangzhou:uid1250000000:eventbusid/eventruleid"
    ],
```

```
    "datacontenttype":"application/json;charset=utf-8",
    "tags":{
        "key1":"value1",
        "key2":"value2"
     },
    "status":"1",
    "data":{
        "appId":"1250000011",
        "instanceId":"ins-sjdksjk",
        "projectId":"11",
        "dimensions":{
            "ip":"127.0.0.1"
            },
        "additionalMsg":{
            "IP":"something unnormal"
            }
    }
}
```

Event Sources

Based on event information sources, causes, characteristics, and forms, cloud service monitoring events are divided into two categories:
Events generated by resource instances and products (such as CVM instances) that are purchased and used by customers in Tencent Cloud. These events are directly or indirectly triggered by customers during use. They belong to specific resource instances. Customers can control and manage them. Resource instances affected by and associated with events can be explicitly determined.
Events generated by the underlying platform infrastructure and services that support Tencent Cloud services, such as Virtual Machine Manager (VMM) that supports CVM at the virtualization layer and the underlying physical machines, networks, and storage modules. These events are generated or caused by the infrastructure and services of Tencent Cloud, and are not the result of customer behavior. They belong to services. Customers cannot control events, which instead can only be handled by Tencent Cloud. Services or product modules affected by and associated with events can be determined, but the affected and associated resource instances cannot always be determined.

Event List

The following table describes cloud service monitoring events generated by the underlying platform infrastructure and services.

Event	Event	Caused By	Impact

Type			
Issues	CVM storage issue	CVM infrastructure storage module	The I/O performance of the CVM instance decreases, and data read/write exceptions occur.
Issues	CVM network connection issue	CVM infrastructure network	The speed of the CVM instance network slows down, or the network is disconnected.
Issues	CVM running exception	CVM infrastructure	The CVM instance bears a high load or crashes, causing service unavailability.

Cloud Audit Event

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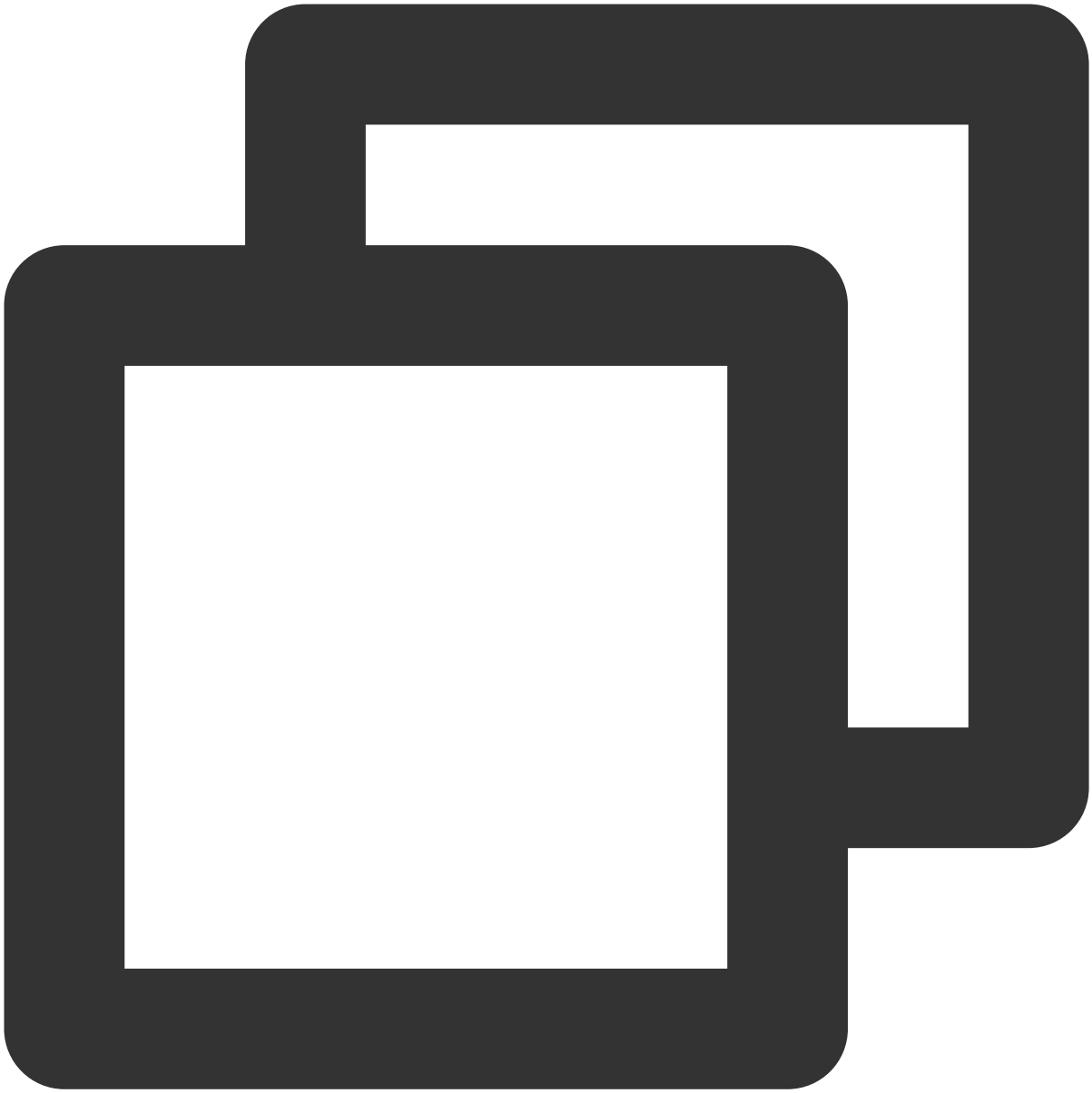
Overview

Tencent Cloud CloudAudit can be used to retrieve the historical records of API calls under your Tencent Cloud account, including API calls via the Tencent Cloud console, Tencent Cloud SDKs, command line tools, and other Tencent Cloud services. This means that any deployment behavior on Tencent Cloud is monitored, and you can find out the source IP address and time when a sub-user or collaborator calls a Tencent Cloud API.
Currently, Tencent Cloud CloudAudit has been fully integrated into EventBridge. You can use the default Tencent Cloud service event bus to receive **write** operations on the cloud for management and Ops. For the services and APIs that support CloudAudit, see CloudAudit-Enabled Services and APIs.

Event Format



```
{
    "specversion":"1.0",
    "id":"13a3f42d-7258-4ada-da6d-023a33******",
    "source":"${ProductName}.cloud.tencent",
    "type":"cvm:CloudEvent:ApiCall",
    "subject":"${resource ID}",
    "time": 1615430559146,
    "region":"ap-guangzhou",
    "resource":[
        "qcs::eb:ap-guangzhou:uid1250000000:eventbusid/eventruleid"
    ],
```

```
    "datacontenttype":"application/json;charset=utf-8",
    "tags":{
        "key1":"value1",
        "key2":"value2"
     },
    "data":{
        ${Raw API operation log}
    }
}
```

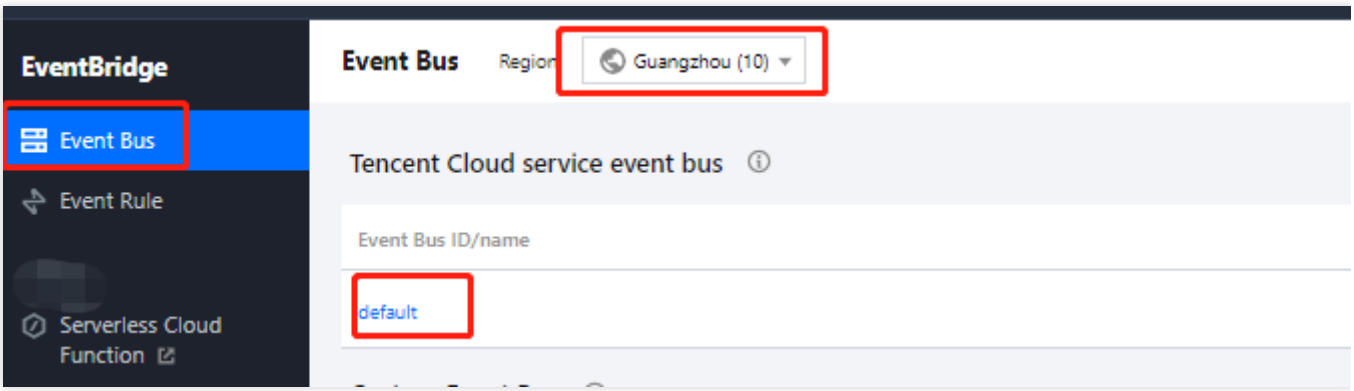
The event parameters are as detailed below:

Field	Description	Data Type
specversion	Event structure version (CloudEvents version. Currently, only CloudEvents - Version 1.0 is supported.)	String
id	ID returned by `PUT Event` .	String
type	Type of the event input through `PUT Event` . CloudAudit events are classified into three types based on the event source: `${Product name abbreviation}:CloudEvent:ApiCall` , `${Product name abbreviation}:CloudEvent:ConsoleCall` , `${Product name abbreviation}:CloudEvent:MiniProgramCall` .	String
source	Event source (which is required for a Tencent Cloud service event and is the abbreviation of `subject`). The value is `xxx.cloud.tencent` by default for a Tencent Cloud service.	String
subject	Event source details, which can be customized. QCS description such as `qcs::dts:ap-guangzhou:appid/uin:xxx` is used for a Tencent Cloud service by default.	String
time	Event time, which is a GMT+0 timestamp in milliseconds such as `1615430559146` .	Timestamp
datacontenttype	Data structure declaration.	String
region	Region information.	String
data	Details of the event input through `PUT Event` . For a CloudAudit event, pass in the complete CloudAudit log here.	Json

Call Method

Before receiving CloudAudit events, make sure that you have **activated the CloudAudit service and created related service roles**.

1. Log in to the EventBridge console and open the **Tencent Cloud service event bus** under the **Guangzhou region**.



2. On the event bus details page, select to enable CloudAudit.

3. On the **Event Rule** page, select an event bus, create an event rule, filter event types, and bind delivery targets. For detailed directions, see Creating Event Rule.