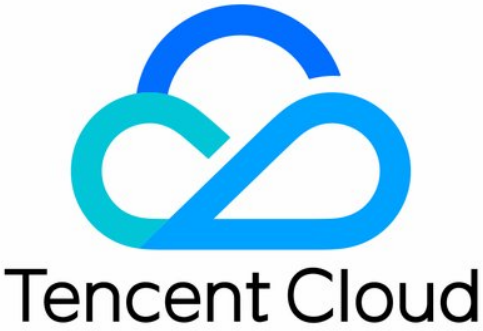
TencentCloud API

Getting Started

Product Documentation



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Introduction

Last updated：2023-03-07 18:16:40

TencentCloud API provides a variety of tools including API Explorer, TCCLI, SDK, and API Inspector, helping you quickly operate and easily manage Tencent Cloud services with a few codes.

Tools

This document uses the DescribeInstances API as an example to help you get started with API Explorer, TCCLI and SDK. This is especially suitable for first-time Tencent Cloud users. It allows you to view all the available Tencent Cloud APIs, and the API calls associated with console operations.

Tool	Use Cases	Documentation
API Explorer	API Explorer is an automated easy-to-use tool that applies to interactive interface operations without additional configurations. However, it is not suitable for multiple continuous use.	Using API Explorer
TCCLI	TCCLI is a unified management tool for Tencent Cloud resources that applies to command line usage. It helps you quickly and easily call an API to manage your Tencent Cloud resources.	Using TCCLI
SDK	Tencent Cloud Software Development Kit (SDK) 3.0 is a companion tool for TencentCloud API 3.0 that applies to SDK coding. Currently, it supports products such as CVM, VPC, and CBS. Tencent Cloud SDK 3.0 will extend its support for all Tencent Cloud services and products in the future.	SDK
API Inspector	API Inspector records API calls associated with console operations, and automatically generates API code snippets in different languages.	Using API Inspector

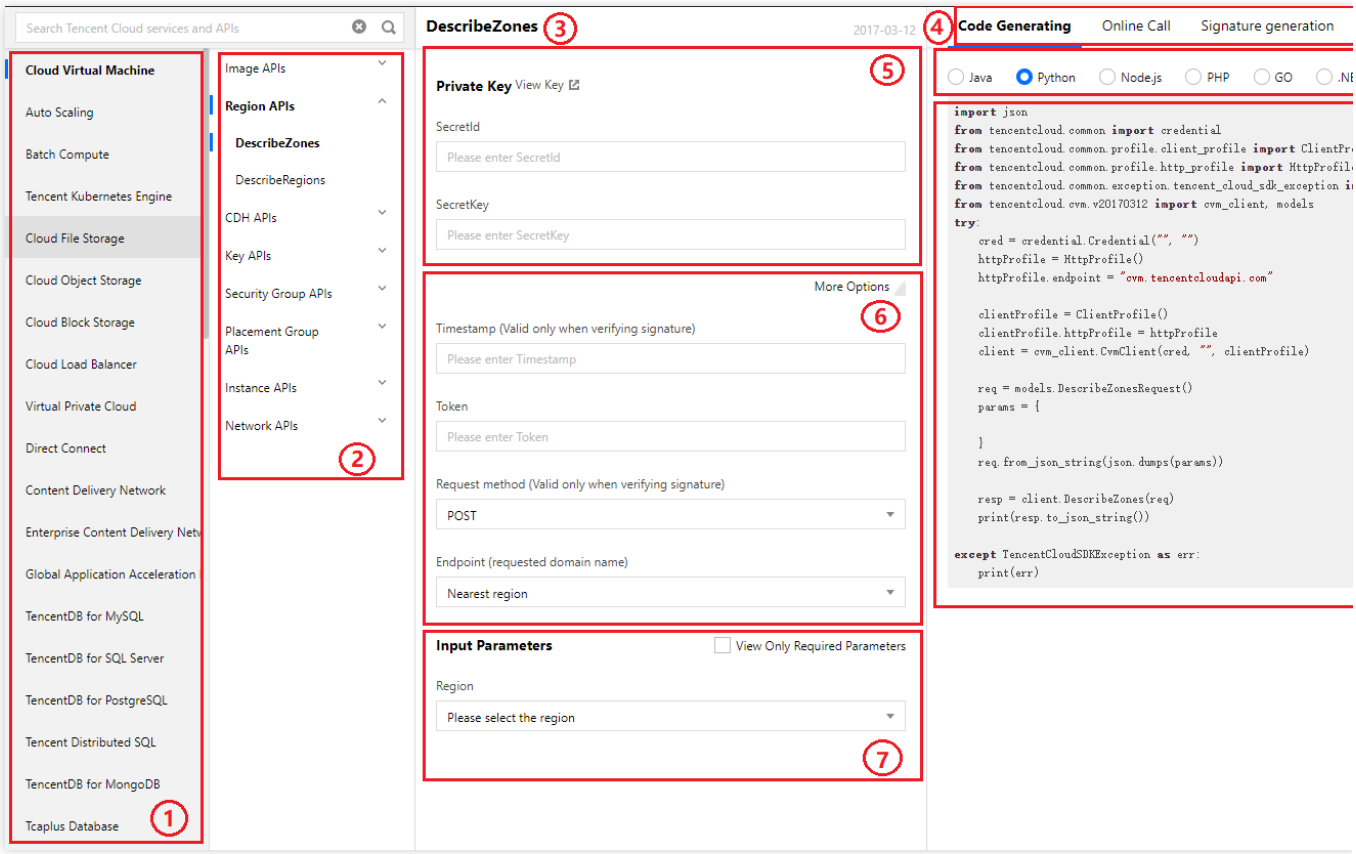
Using API Explorer

Last updated：2023-03-07 18:16:40

TencentCloud API Explorer is an automated tool for API call. It currently supports various Tencent Cloud services such as CVM, VPC, and CBS. Specifically, it can automatically generate SDK code and signature strings in Java, Python, Node.js, PHP, Go and .NET, call APIs online, and send real requests, making SDKs easier to use.

API Explorer Details

This document describes API Explorer in detail as shown below in order from left to right:



1. **Service area**: all currently supported Tencent Cloud services are listed here.
2. **Service API area**: all feature APIs that are supported under the current service are listed here.
3. **API name**: the name of the selected API is displayed here.
4. **Service version**: there are certain differences between service versions. For more information, please see the API documentation of the specific service. The figure below shows the CVM API version 2017-03-12.
5. **Key pair (** `SecretId` **and** `SecretKey` **)**: enter the security credentials of the account, which can be obtained by clicking **View Key**.

Note:

The API key represents your account identity and granted permissions, which is equivalent to your login password. Do not disclose it to others.

6. **Parameters required by signature**: click **More Options** to view the parameters required by various features such as signature string generation and verification. The required parameters may vary by service. For more information, please see the API documentation of the specific service. The parameters required by CVM signature are as follows:

Timestamp (valid only when the generated signature string is verified): current UNIX timestamp accurate down to the second, which records when an API request is initiated.

`Timestamp` must be the same as your current system time, and your system time must be in sync with the UTC time. If the difference between the timestamp and your current system time is greater than five minutes, the request will fail. If your system time is out of sync with the UTC time for a prolonged period, the request will fail, and a signature expiration error will be returned.

Token (valid only when the generated signature string is verified): it is used to authenticate the user. The requirements of this parameter may vary by service. If necessary, the way of getting it will be specified. For more information, please see the API documentation of the specific service.

Request method (valid only when the generated signature string is verified): a request uses the POST method by default. You can choose an appropriate method according to the specific API document.

Endpoint (valid only when the generated signature string is verified): select the access region. Nearby access is used by default.

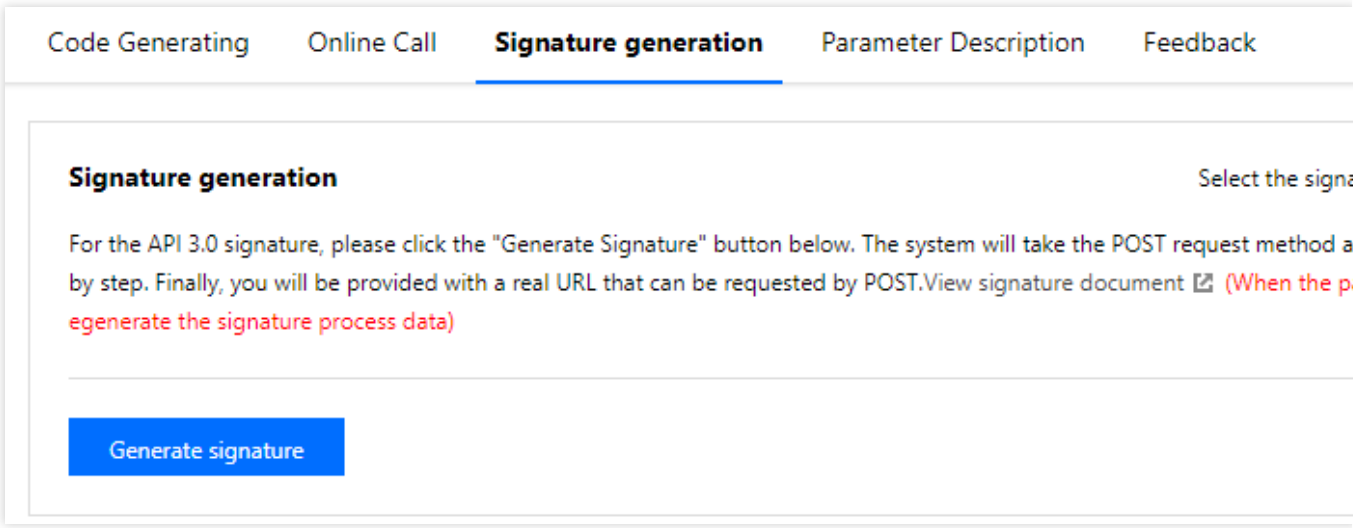
7. **Parameters required by API**: only the parameters required by the API are displayed, and you can check "View Only Required Parameters" to filter the parameters. The specific parameter description can be viewed by selecting **Parameter Description** on the right.

8. **Feature area**:

Code Generation: this feature can automatically generate code in multiple languages to make the API easier to use.

Online Call: after entering the parameters, select **Send Request**, and the system will send the parameters you entered on the left to the corresponding API. This is a real operation, and the system will display related information such as the request result and response headers.

Signature Generation: this feature can be used to automatically generate signature strings. API 3.0 v3 version is used by default, and you can choose other versions as needed as shown below:



9. **Subfeature area**: you can switch languages to generate corresponding code.
10. **Response area**: response information such as the generated code and request result is displayed here.
11. **SDK usage guide**: for more information on the SDK, such as the required environment and sample call, please see the corresponding SDK usage guide.

Calling API

This document uses the DescribeZones API as an example. To use API Explorer to call it, please:
1. Get the private key (`SecretId` and `SecretKey`) and enter them in corresponding fields.
2. Enter the required parameters. You can select **Parameter Description** in the feature area on the right to view the parameters of the specific API.
3. Select **Online Call** > **Send Request** in the feature area on the right and view the request result in the response area.

Generating signature string

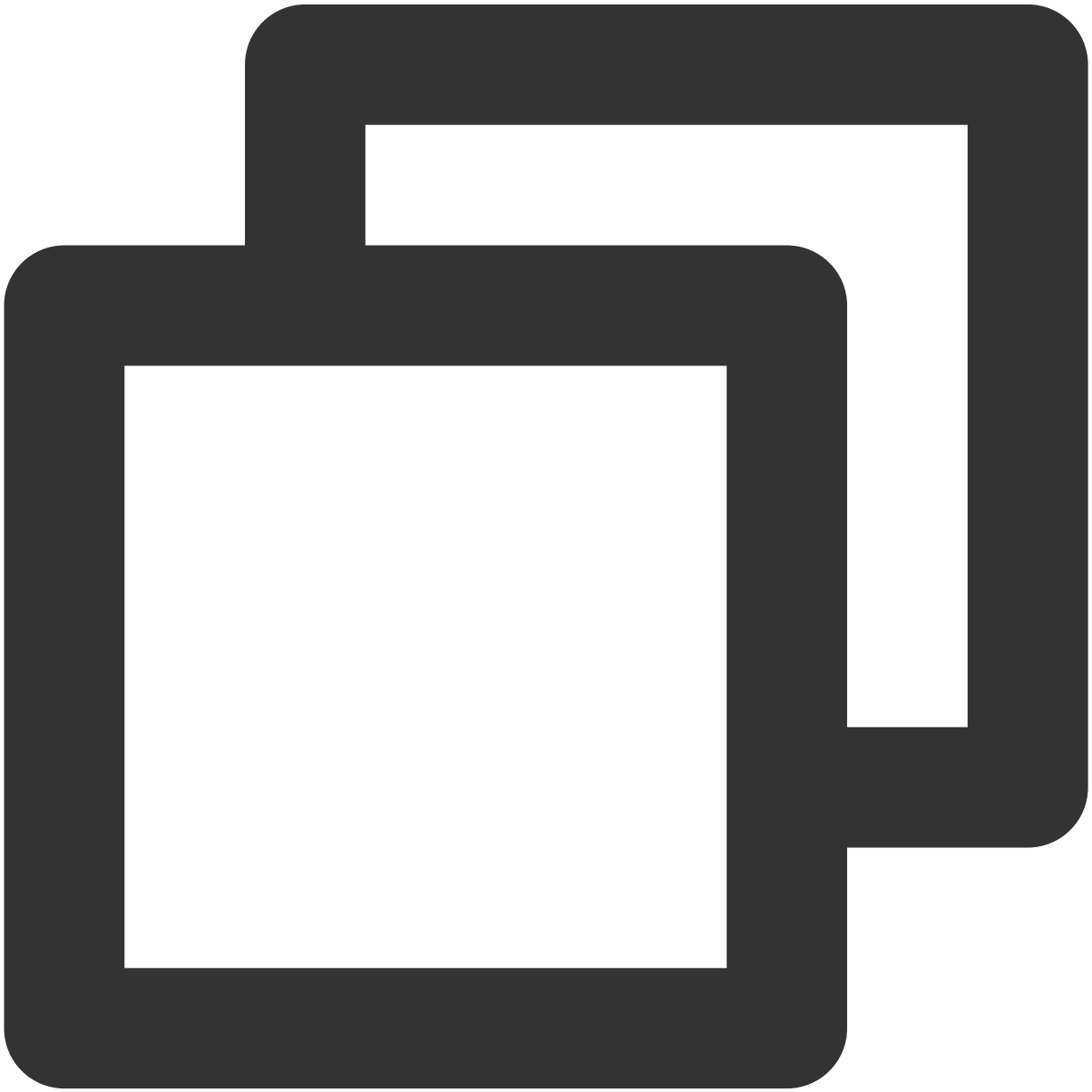
This document uses the DescribeZones API as an example. To use API Explorer to generate a signature string, please:
1. Get the private key (`SecretId` and `SecretKey`) and enter them in corresponding fields.
2. (Optional) Enter the parameters required by the signature as needed. If you leave them empty, the system will automatically enter them when generating the signature string.
3. Enter the parameters required by the API. You can select **Parameter Description** in the feature area on the right to view the parameters of the specific API.

4. Select **Signature Generation** > **Generate Signature** in the feature area on the right and view the signing steps and result in the response area.

FAQs

How do I use the tool to verify API signatures?

When you encounter the following error message, you can use API Explorer to verify the signature:



```
[TencentCloudSDKException] code:AuthFailure.SecretIdNotFound message:The SecretId i
```

1. Enter the parameters in API Explorer. Please use variable parameters such as `Timestamp` the same as those used in the incorrect API signature to be verified, and select **Signature Generation** > **Generate Signature** in the feature area.
2. After getting the signing steps and result in the response area, you can compare the data before and after.

Signature error

If an error occurs during the signing process, the following error codes may be returned. Please resolve the error accordingly:

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

Contact Us

If you encounter any problems during use, you can give us your feedback by selecting **Feedback** in the feature area. You can also click

in the bottom-right corner to query related information in the "Help Center".

Using TCCLI

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Tencent Cloud Command Line Interface (TCCLI) is a unified tool for managing Tencent Cloud resources. With TCCLI, you can quickly and easily call Tencent Cloud APIs to manage your resources and automate them through scripts for diversified combination and reuse.

The table below describes the basic and advanced TCCLI features:

Feature	Description
Basic features	Configures TCCLI Provides help information Outputs results in JSON, table or text format
Advanced features	Supports multi-version API access Specifies the nearest access point (Endpoint) Filters return results Outputs the input parameters structure to JSON Reads and calls a JSON file Calls complex type dot (.) expansion

Installing TCCLI

1. Before installing TCCLI, make sure that your system has the Python environment and pip tool installed. For more information, see Python.

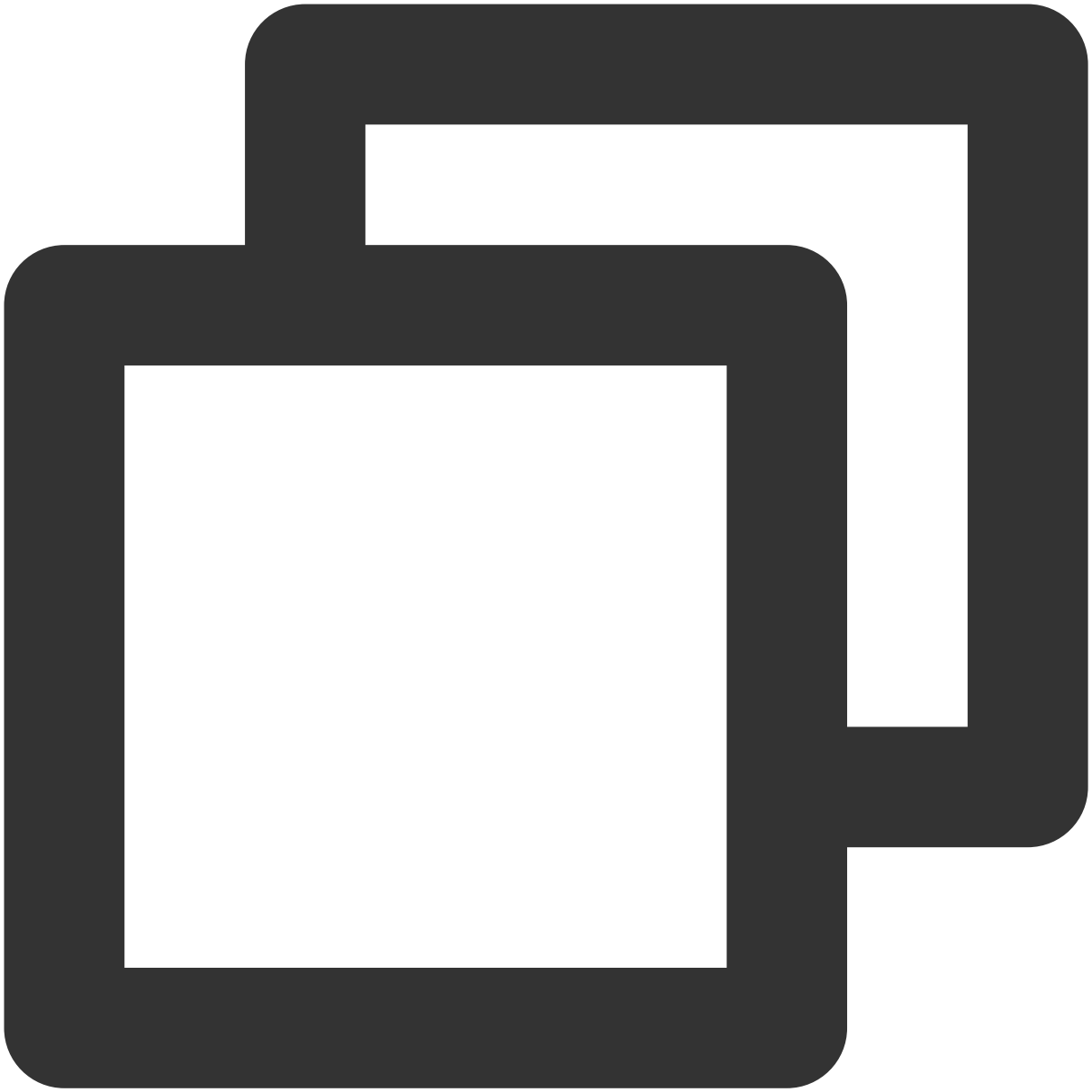
Note:

Use Python 2.7 or a later version. For more information, please see Python's official website and pip's official website.

TCCLI depends on the TencentCloudApi Python SDK. If the version number of the TencentCloudApi Python SDK is earlier than that of TCCLI to be installed, the TencentCloudApi Python SDK will be automatically upgraded when TCCLI is installed.

2. In Windows, press **Win+R**, enter `cmd` and click **OK**. This document uses the LinuxOS as an example.

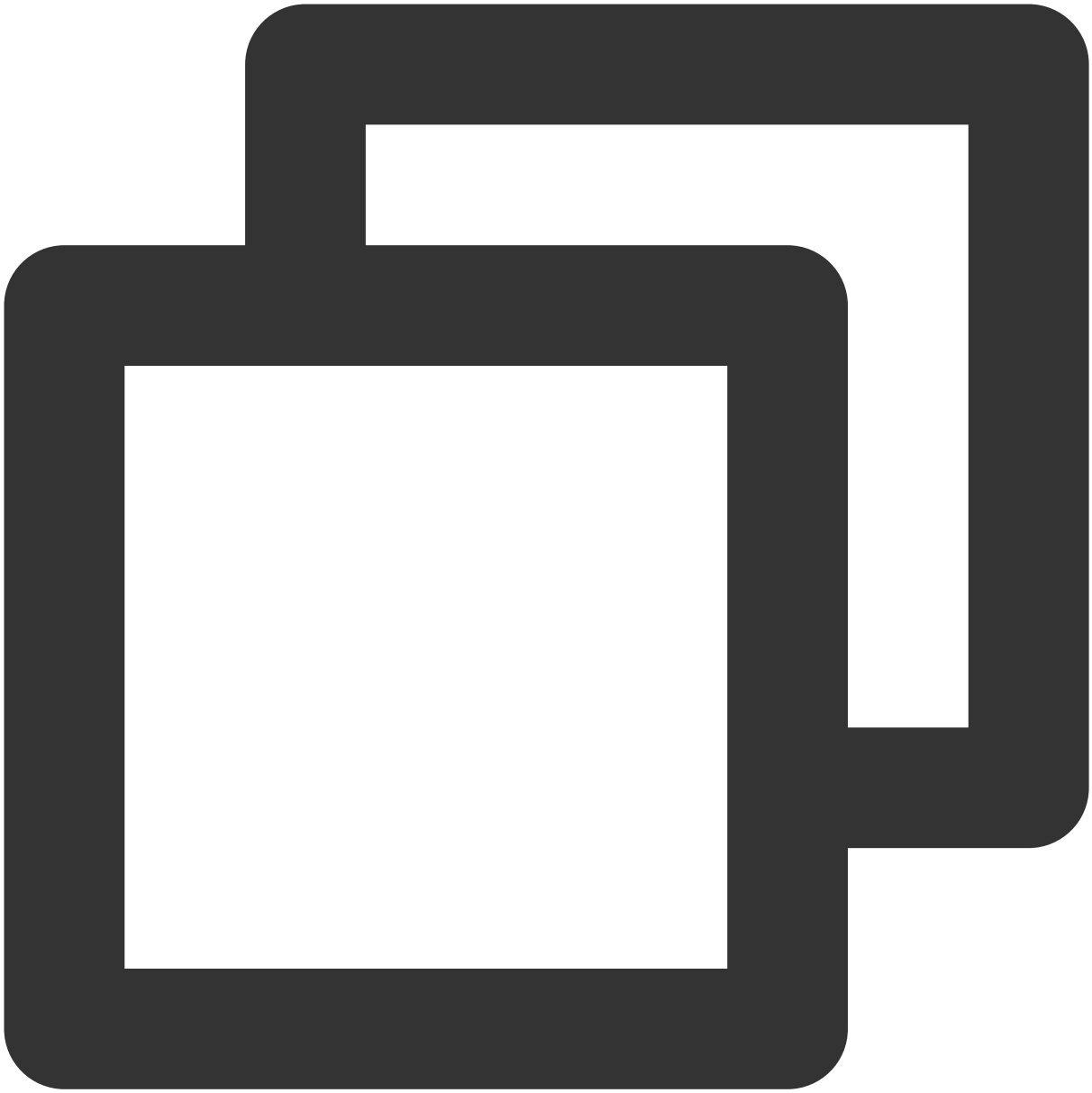
3. Run the following command to install TCCLI.



```
pip install tccli
```

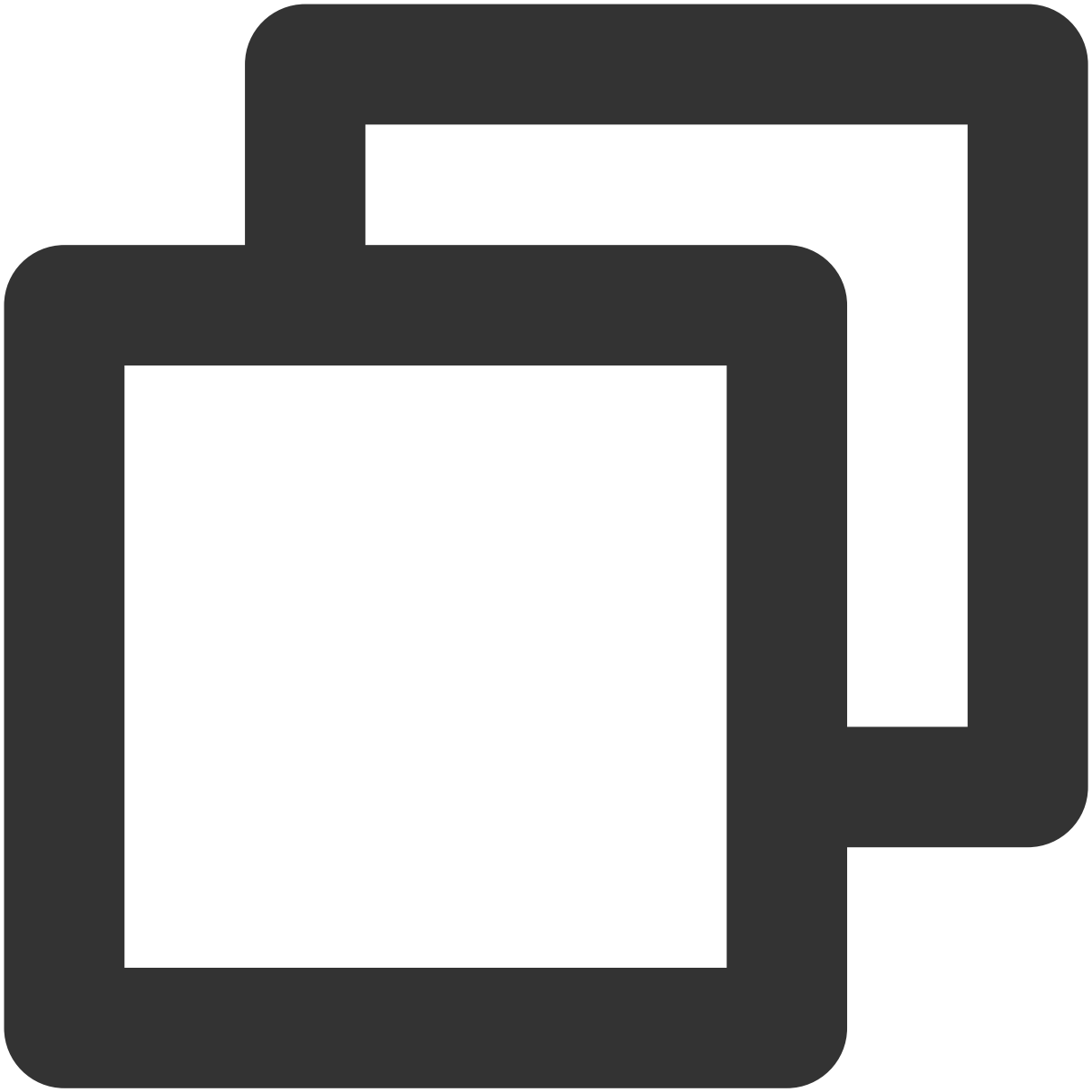
Note:

Run the following commands to upgrade TCCLI earlier than version 3.0.96.1.



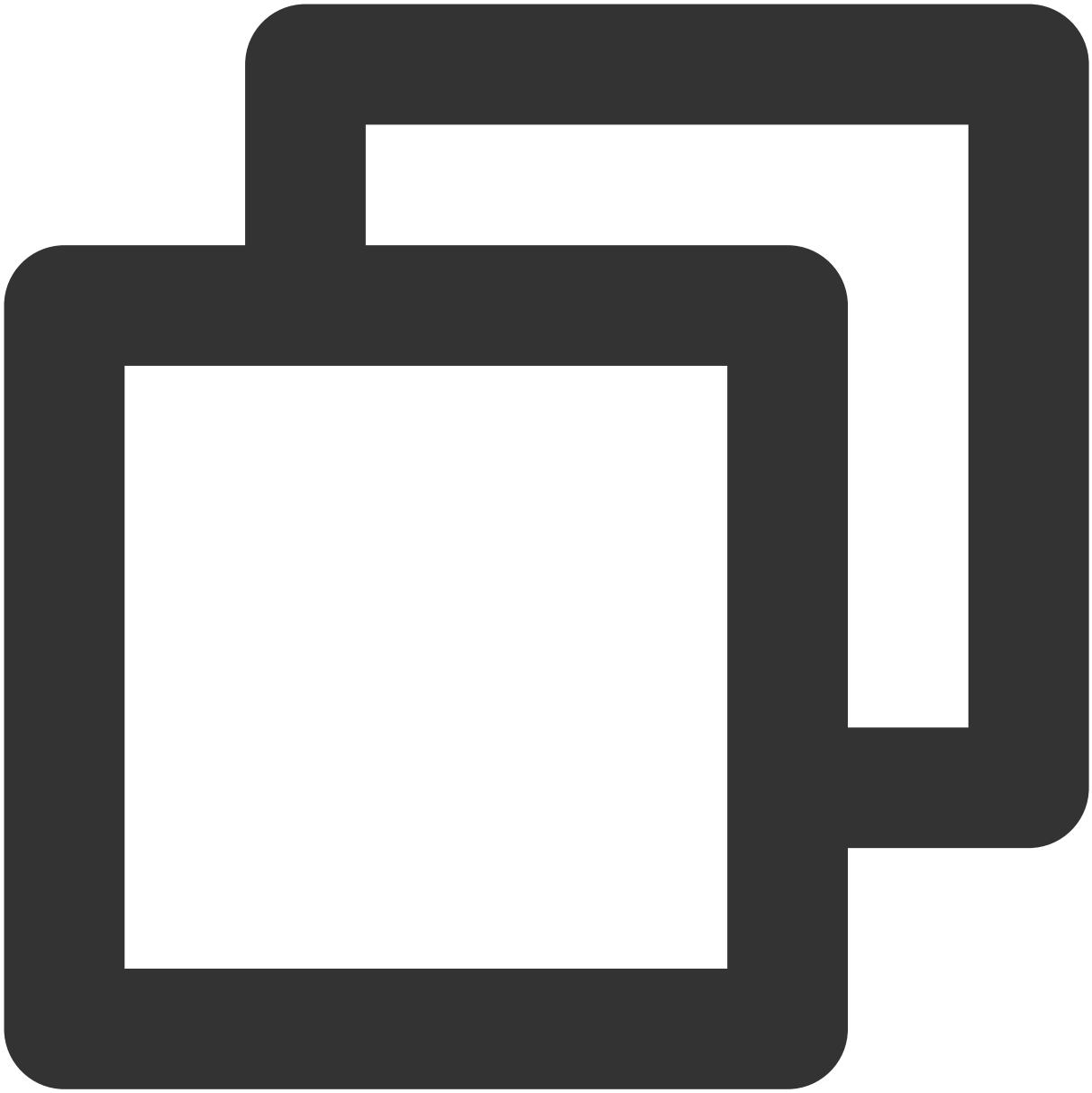
```
sudo pip uninstall tccli jmespath
sudo pip install tccli
```

4. Run the following command to verify whether TCCLI is successfully installed:



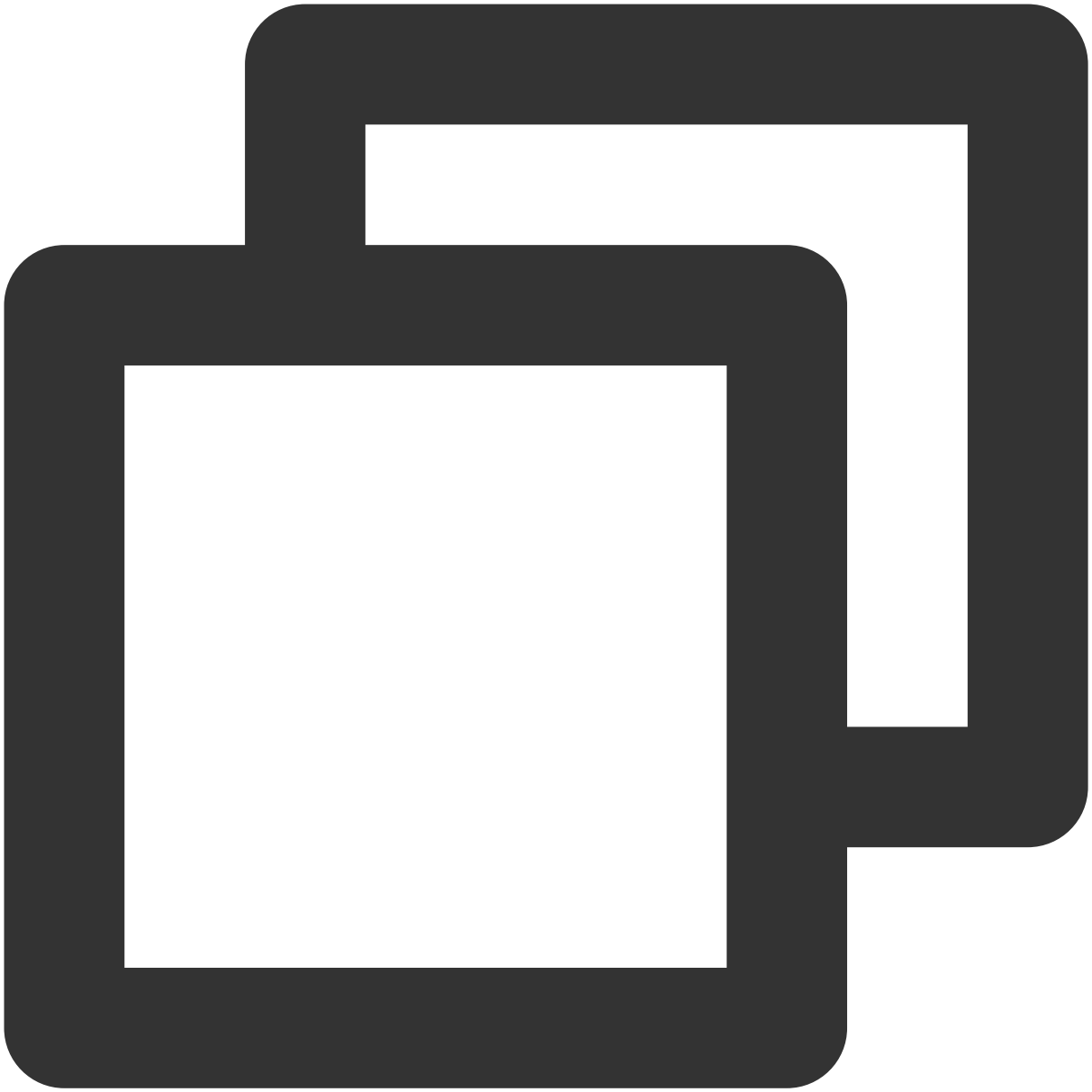
```
tccli --version
```

If the following result is returned, it indicates that TCCLI has been successfully installed.



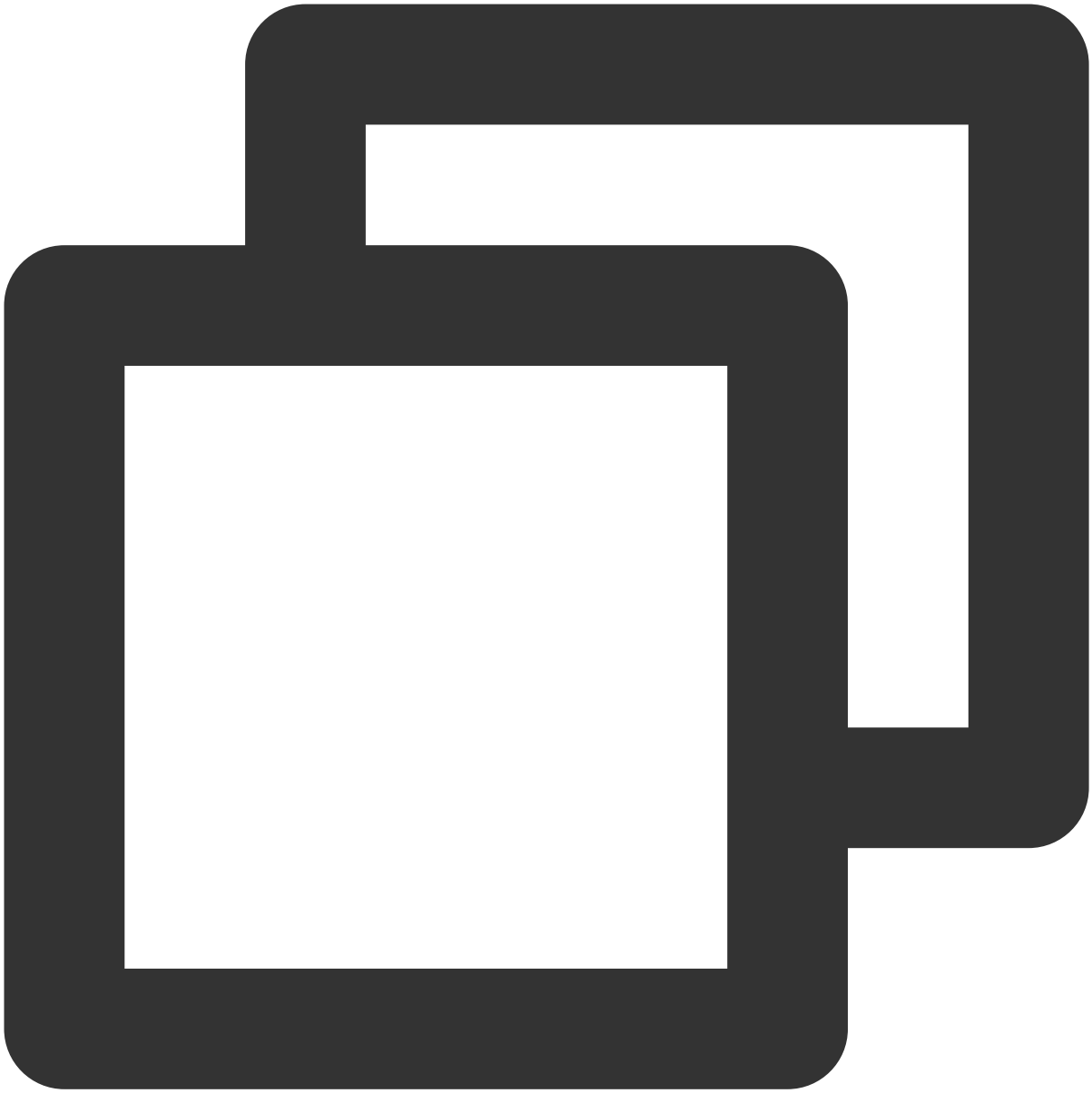
```
[root@VM_180_248_centos ~]# tccli --version
3.0.250.1
```

5. Run the following command to enable the autocomplete feature that also corrects uppercase/lowercase misuse.



```
complete -C 'tccli_completer' tccli
```

The following code snippets display the autocomplete process:

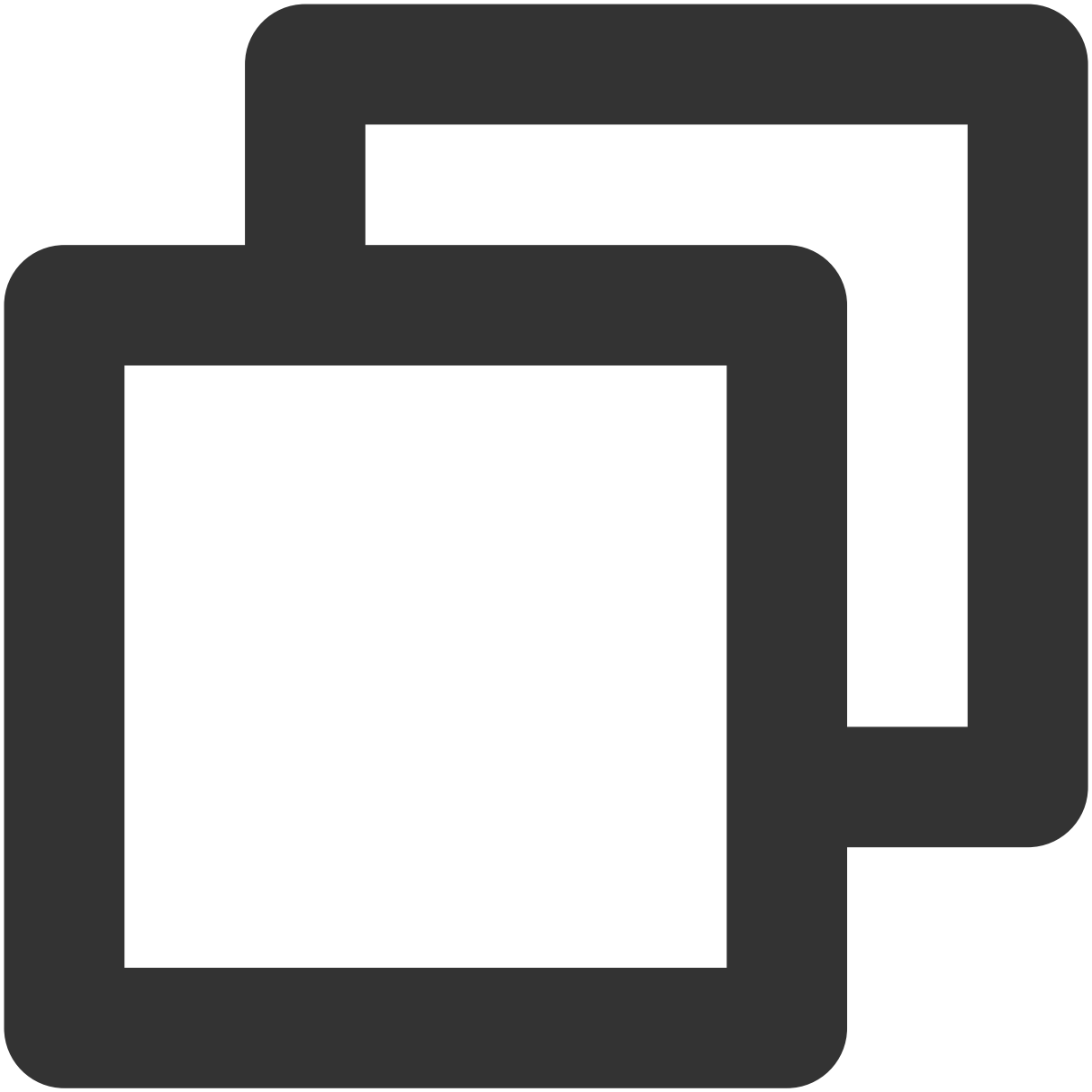


```
[root@VM_33_50_centos ~]# tccli c
cam           cbs           cdn           chdfs         ckafka        cloudhsm      cms
captcha       ccc           cds           cim           clb           cme           confi
cat           cdb           cfs           cis           cloudaudit    cmq           cpdp
[root@VM_33_50_centos ~]# tccli cvm R
RebootInstances                     ResetInstance                       ResetInst
RenewHosts                          ResetInstancesInternetMaxBandwidth  ResizeIns
RenewInstances                      ResetInstancesPassword              RunInstan
[root@VM_33_50_centos ~]# tccli cvm RunInstances --
--ActionTimer               --generate-cli-skeleton     --InstanceType
--ClientToken               --HostName                  --InternetAccessible
```

```
--cli-input-json            --HpcClusterId              --LoginSettings
--DataDisks                 --ImageId                   --output
--DisasterRecoverGroupIds   --InstanceChargePrepaid     --Placement
--DryRun                    --InstanceChargeType        --profile
--endpoint                  --InstanceCount             --region
--EnhancedService           --InstanceMarketOptions     --secretId
--filter                    --InstanceName              --secretKey
[root@VM_33_50_centos ~]# tccli cvm RunInstances --Placement
```

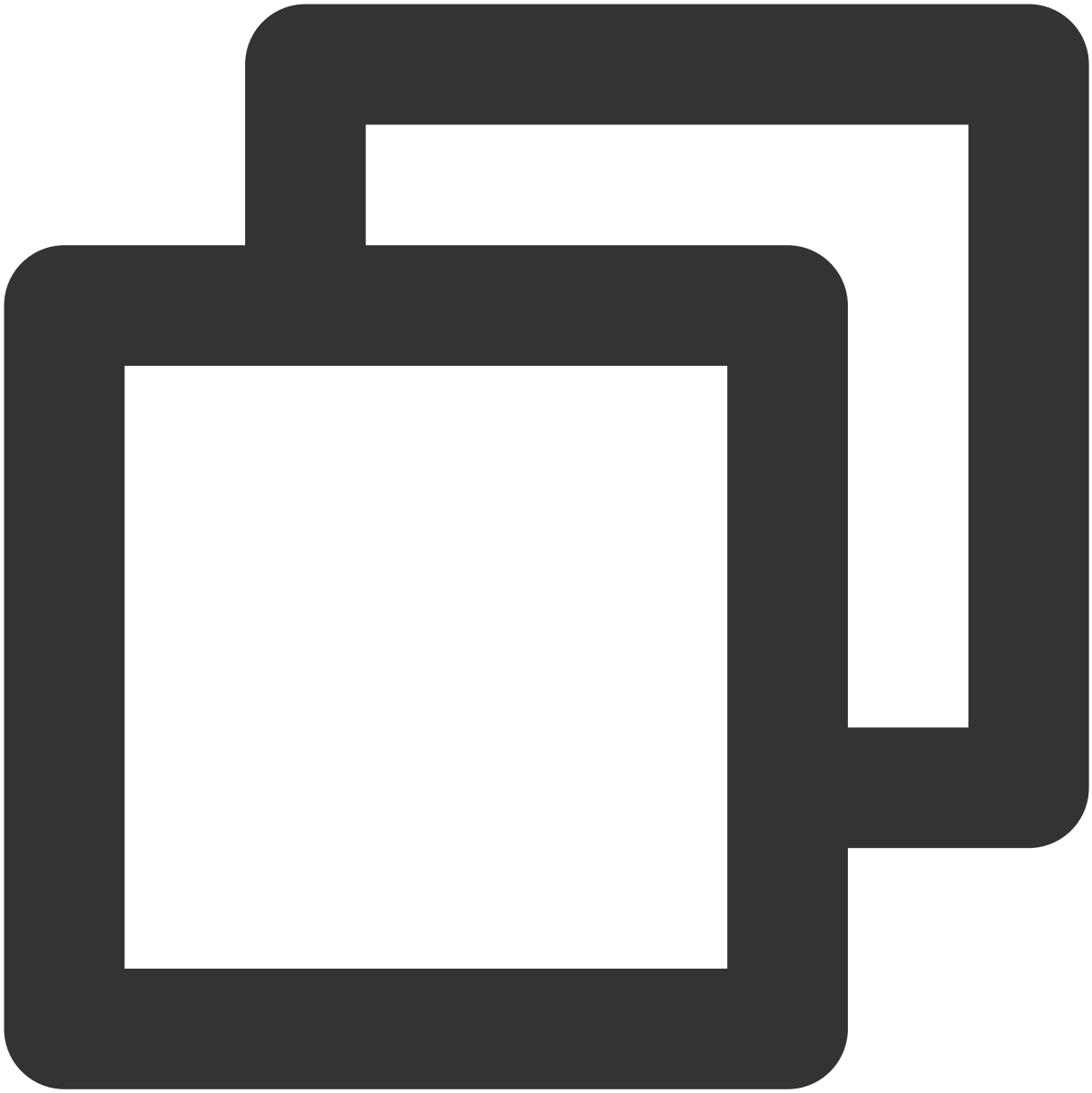
Configuring TCCLI

1. Run the following command to enter the interactive mode for quick configuration.



```
tccli configure
```

Configure the parameters as follows:



```
TencentCloud API secretId [*afcQ]:
TencentCloud API secretKey [*ArFd]:
region:
output[json]:
```

secretId: SecretId of your TencentCloud API key, which can be obtained at Manage API Key. A root account can apply for up to two API keys.

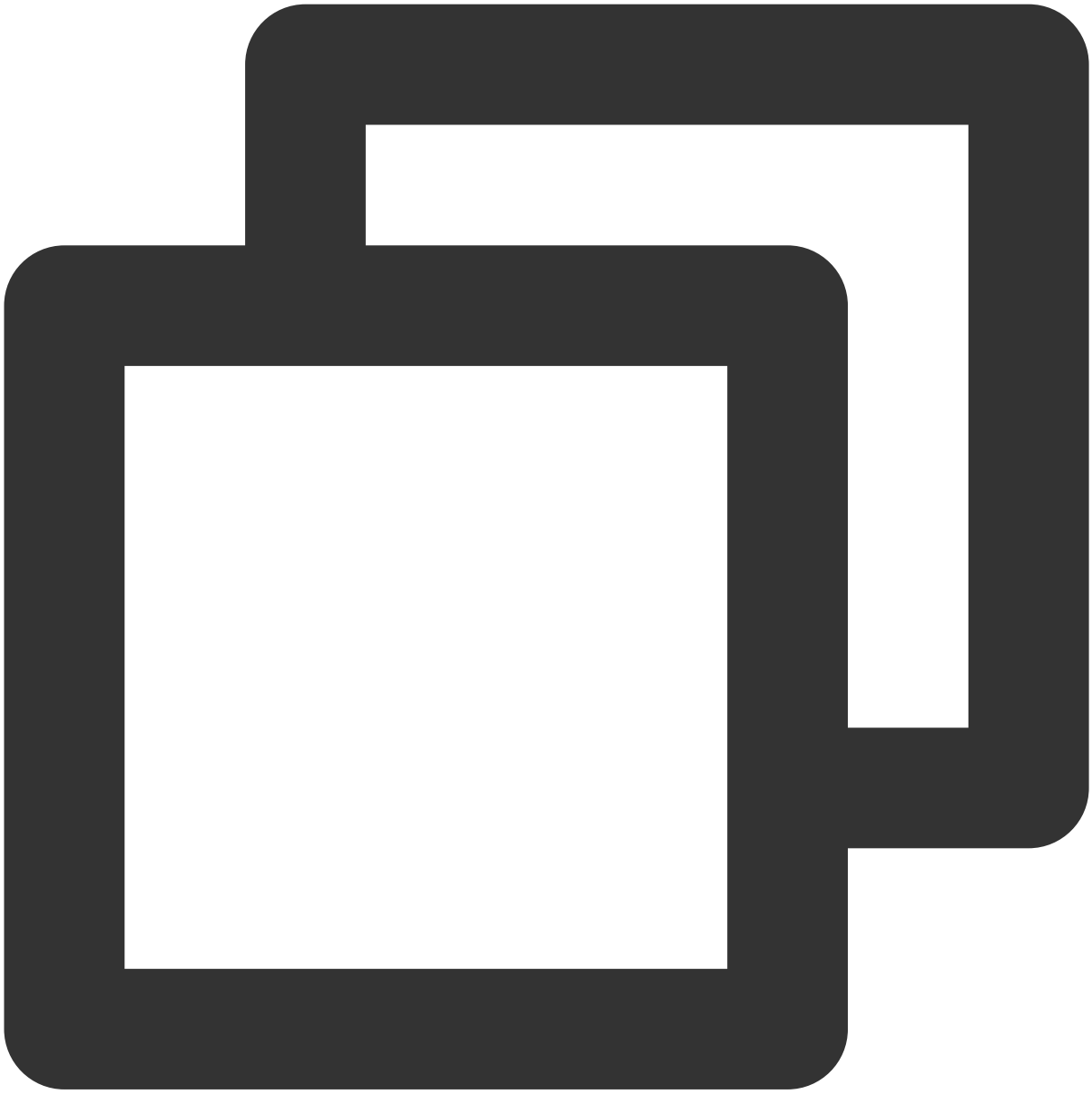
secretKey: SecretKey of your TencentCloud API key, which can be obtained at Manage API Key.

region: the region of Tencent Cloud services. Use the relevant APIs to obtain available regions, such as Region List for CVM.

output: optional, output format of the request return packet. Valid values: JSON, table, text. Default value: JSON.

For more information, please run the `tccli configure help` command.

2. In command line mode, you can configure the information in an automated script:

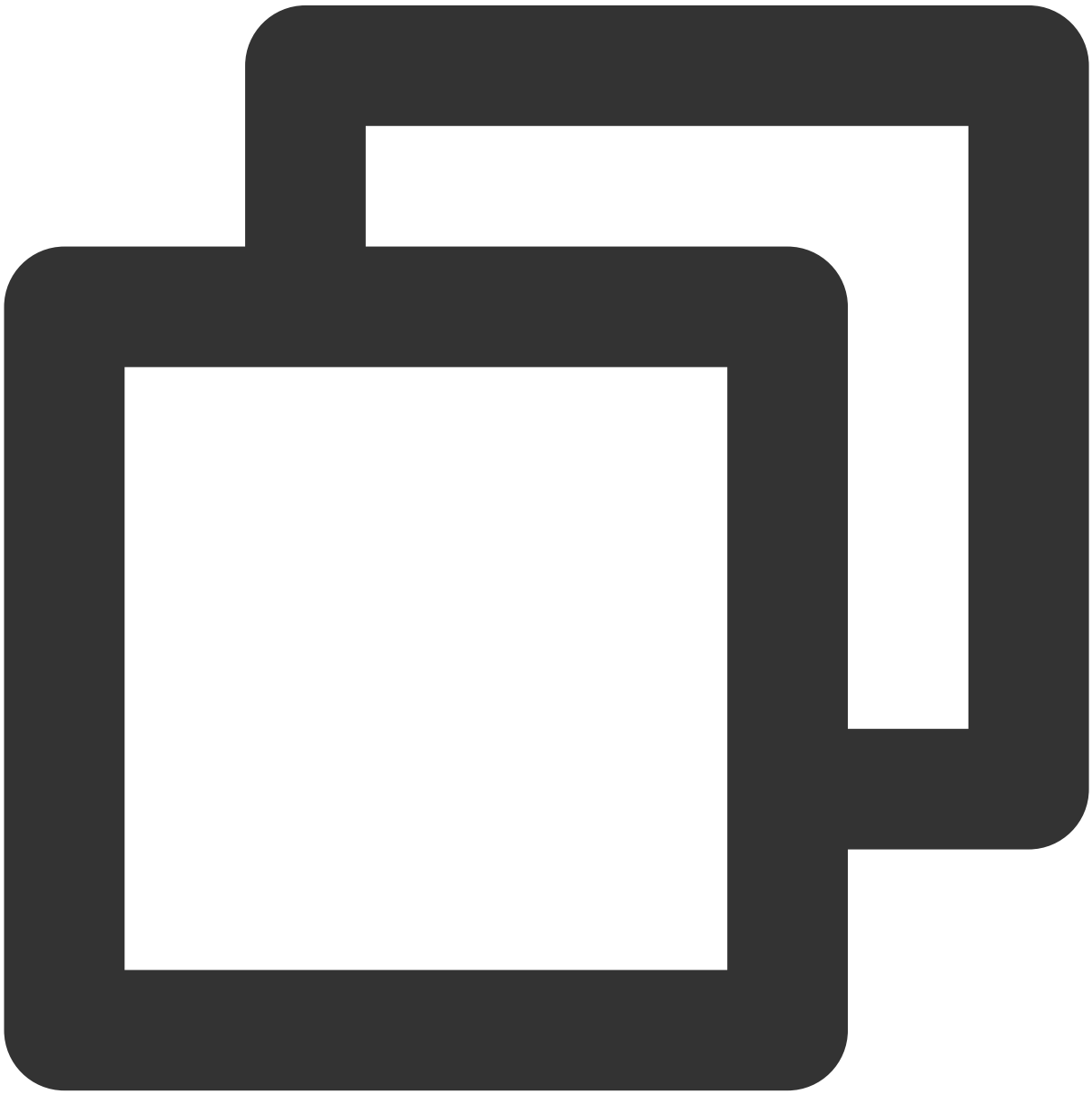


```
# The `set` subcommand is used to configure one or more items.
tccli configure set secretId AKIDwLw1234**********nR2OTI787aBCDP
tccli configure set region ap-guangzhou  output json
# The `get` subcommand is used to obtain configuration information.
tccli configure get secretKey
secretKey = OxXj7khcV1234*********dCc1LiArFd
# The `list` subcommand is used to print out all configuration information.
```

```
tccli configure list
credential:
secretId =  AKIDwLw1234**********nR2OTI787aBCDP
secretKey =  OxXj7khcV1234*********dCc1LiArFd
configure:
region =  ap-guangzhou
output =  json
```

Use the `tccli configure [list, get or set] help` command such as `tccli configure list help` to view more information.

3. Configure multiple accounts for easy use.



```
# Specify the account name `test` in an interactive mode.
$ tccli configure --profile test
TencentCloud API secretId [*BCDP]:AKIDwLw1234**********R2OTI787aBCDP
TencentCloud API secretKey [*ArFd]:OxXj7khcV1234*********dCc1LiArFd
region: ap-guangzhou
output[json]:
# Specify the account name “test” for `set/get/list` subcommands. This command has
$ tccli configure set region ap-guangzhou  output json secretId AKIDwLw1234*******
# Modify a parameter (such as region) alone:
$ tccli configure set region ap-beijing
# View the key or configurations of the `test` user.
$ tccli configure get secretKey --profile test
$ tccli configure list --profile test
# Specify an account when calling an API such as DescribeZones API for CVM.
$ tccli cvm DescribeZones --profile test
```

Using TCCLI

Basic features

TCCLI supports custom configurations, provides help information, and outputs results in JSON, table or text.

Note:

The non-simple parameters in the examples must be in standard JSON format.

TCCLI currently supports the following three calling methods:

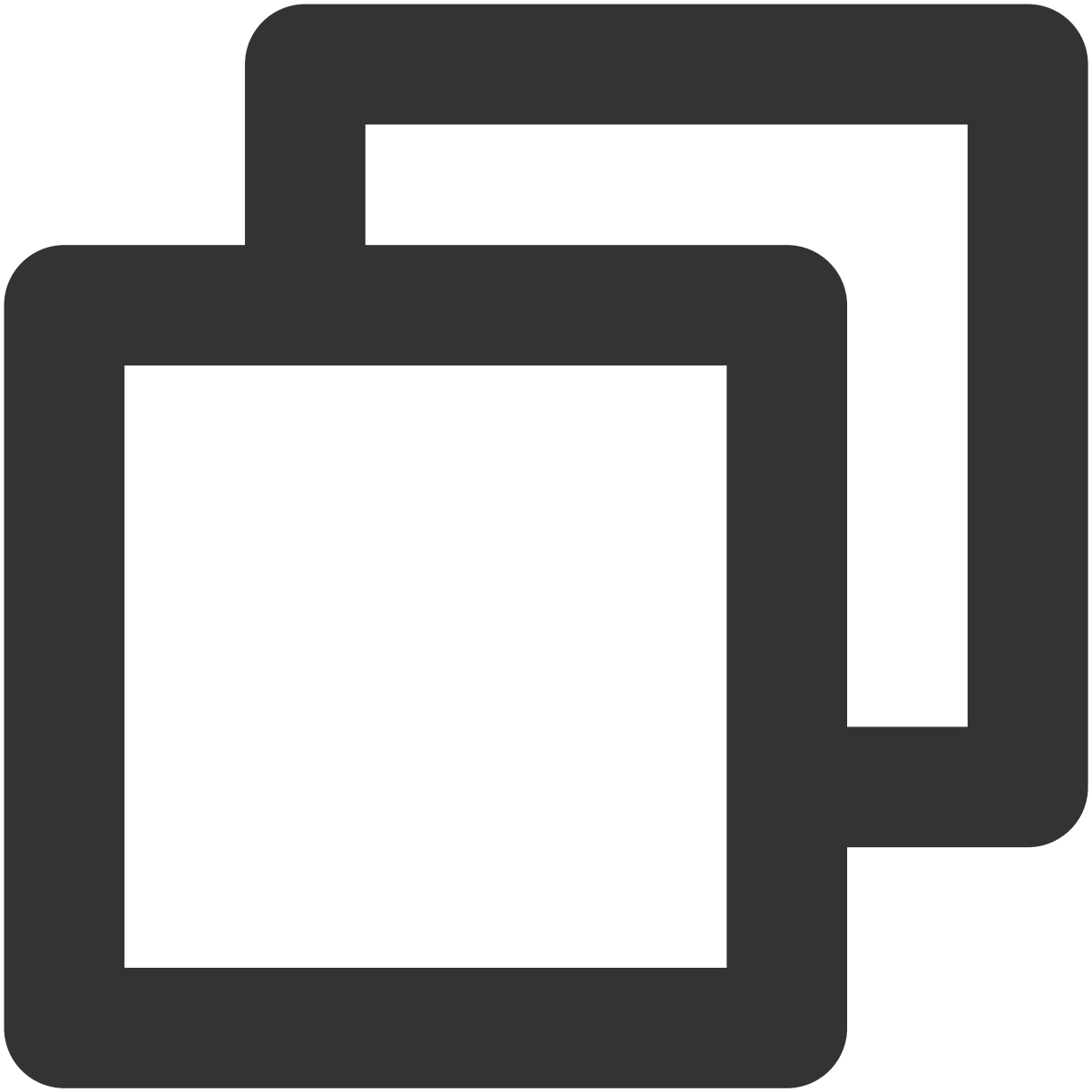
JSON strings

JSON file --cli-input-json

Complex type dot (.) expansion --cli-unfold-argument

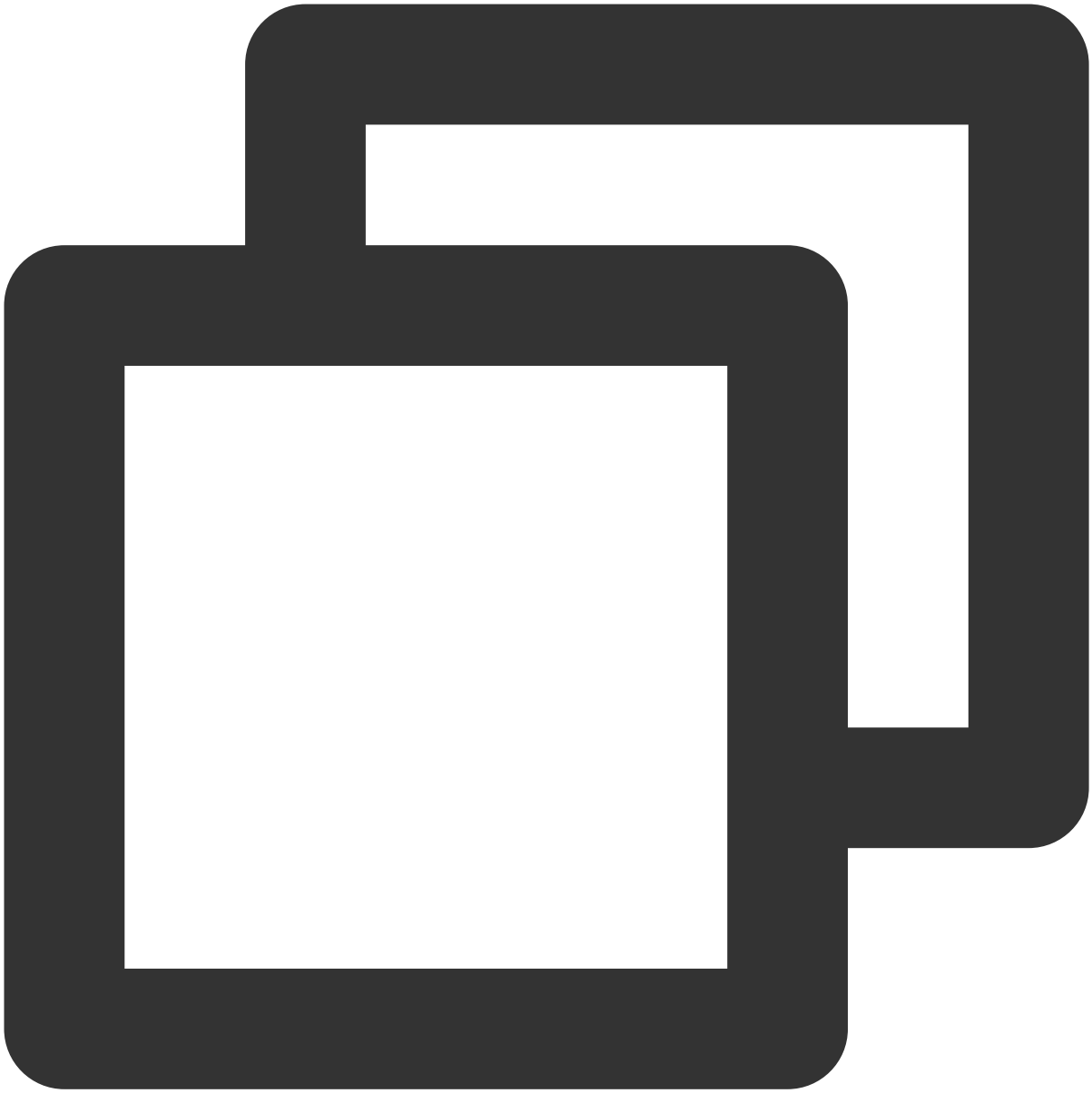
Calling sample of JSON strings

Run the following command to create a CVM instance.



```
$ tccli cvm RunInstances --InstanceChargeType POSTPAID_BY_HOUR --InstanceChargePrep
```

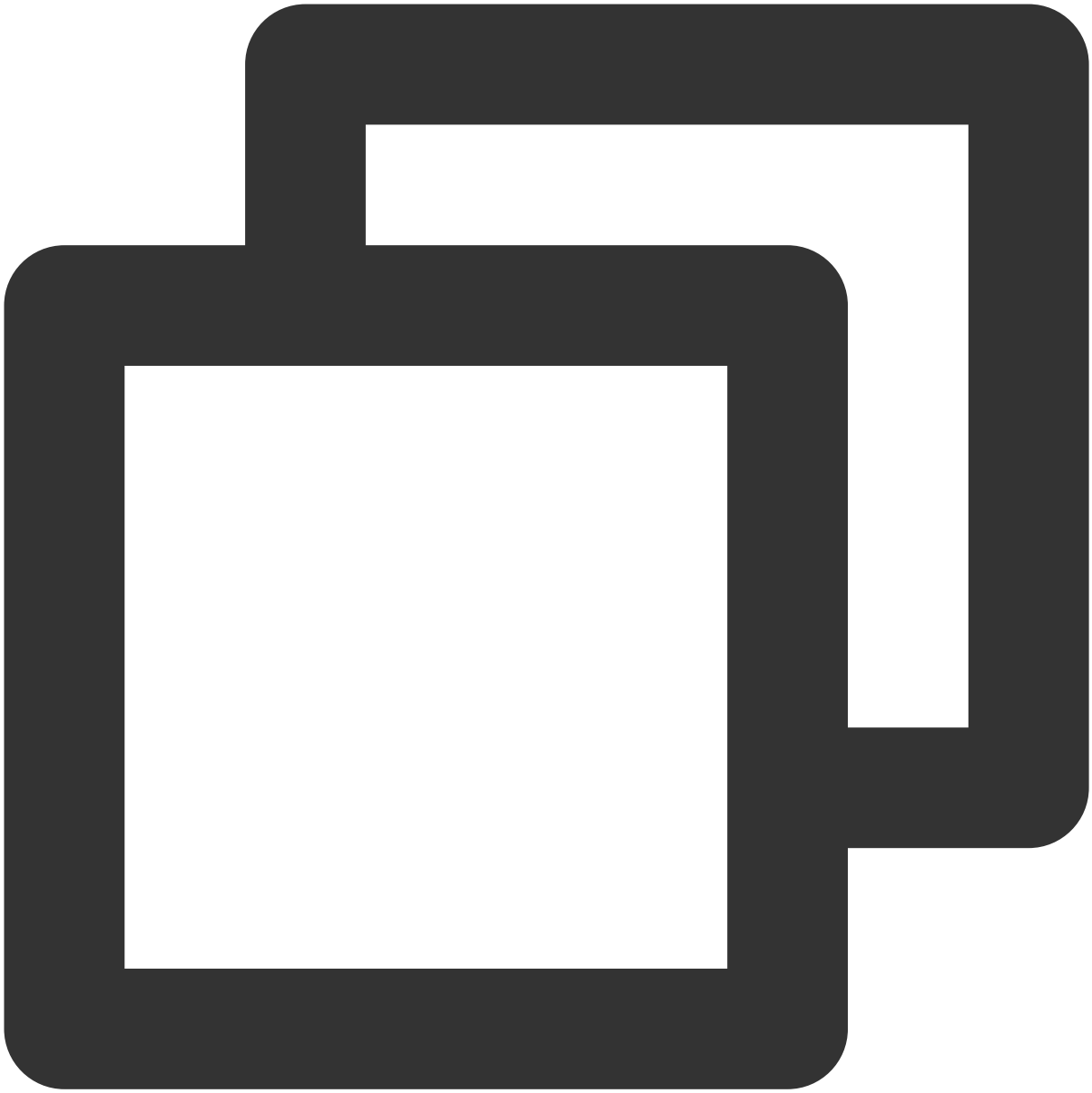
Run the following command to obtain the CVM's monitoring data.



```
[root@VM_33_50_centos ~]# tccli monitor GetMonitorData --Namespace "QCE/CVM" --Peri
```

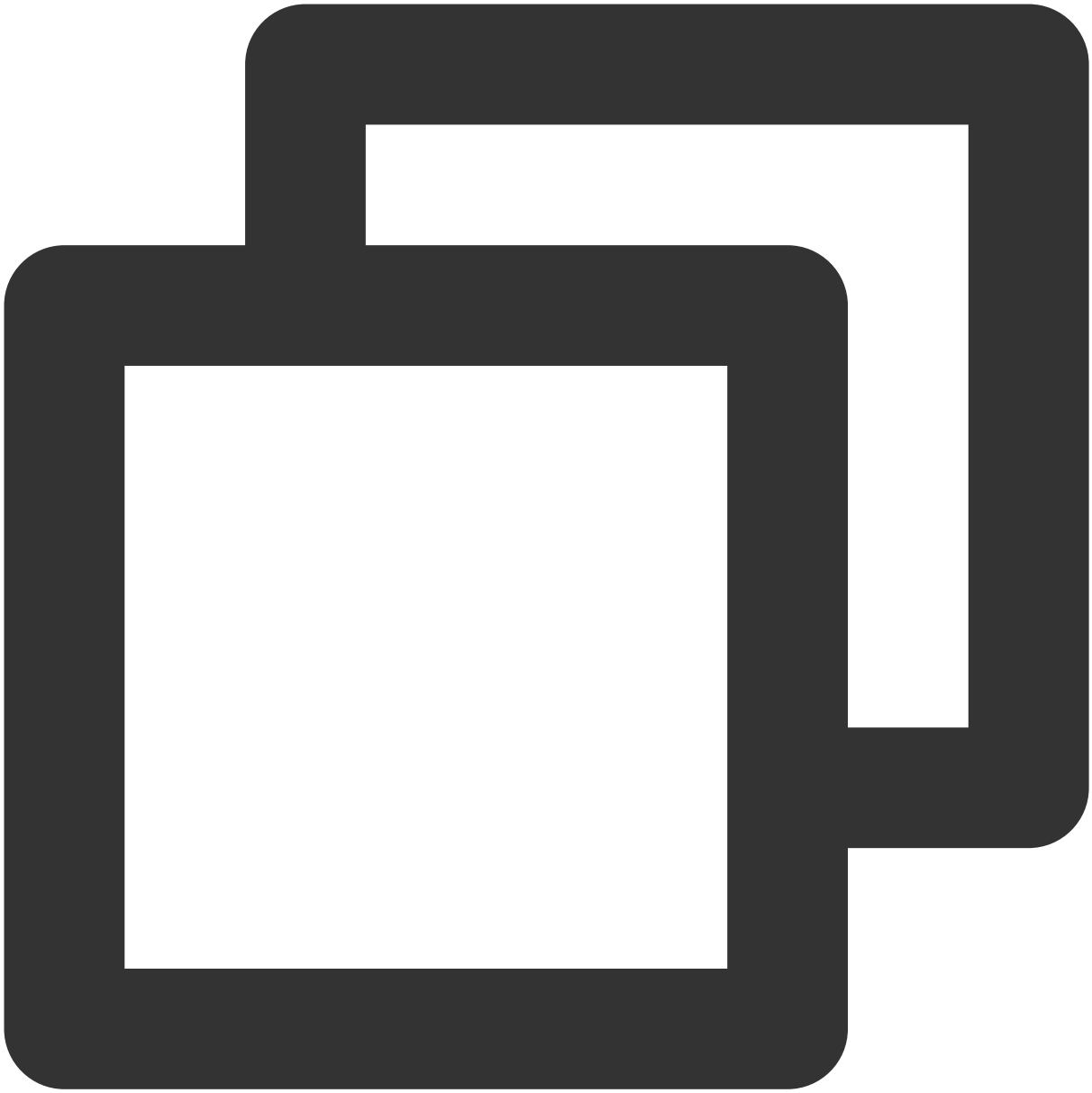
Calling sample of JSON file (--cli-input-json)

1. Run the following command to output the input parameters to a JSON file.



```
[root@VM_33_50_centos ~]# tccli cvm RunInstances  --generate-cli-skeleton > /tmp/Ru
```

2. Replace with your actual values, and pass in the JSON file in the format of `--cli-input-json` followed by `file://+file path` as shown below:

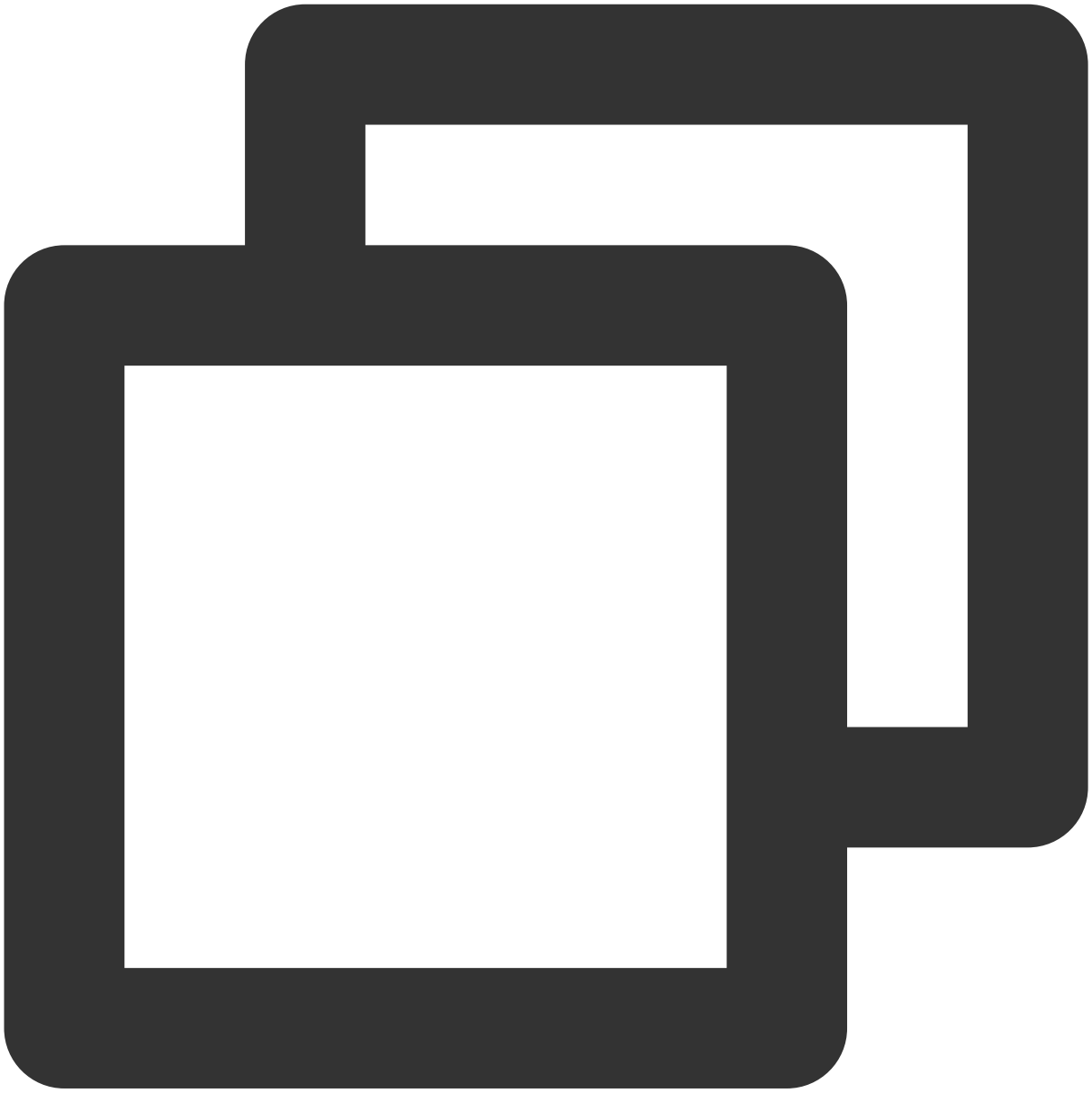


```
[root@VM_33_50_centos ~]# tccli cvm RunInstances --cli-input-json file:///tmp/RunIn
{
    "RequestId": "20e2b42d-3260-4750-9293-79116208330e",
    "InstanceIdSet": null
}
```

Calling sample of complex type dot (.) expansion (--cli-unfold-argument)

This method expands and joins a complex type in dots to solve the input difficulties with the CLI autocomplete feature and avoid errors.

For example, `{"a":{"b": "c"}}` will be expanded to `--a.b c` . For a complex array, use `.0` and `.1` to represent the first and second elements of the array. For a simple array, separate multiple elements with spaces, such as `--Integer 10 20` and `--String str1 str2` .
Run the following command to create a CVM instance.

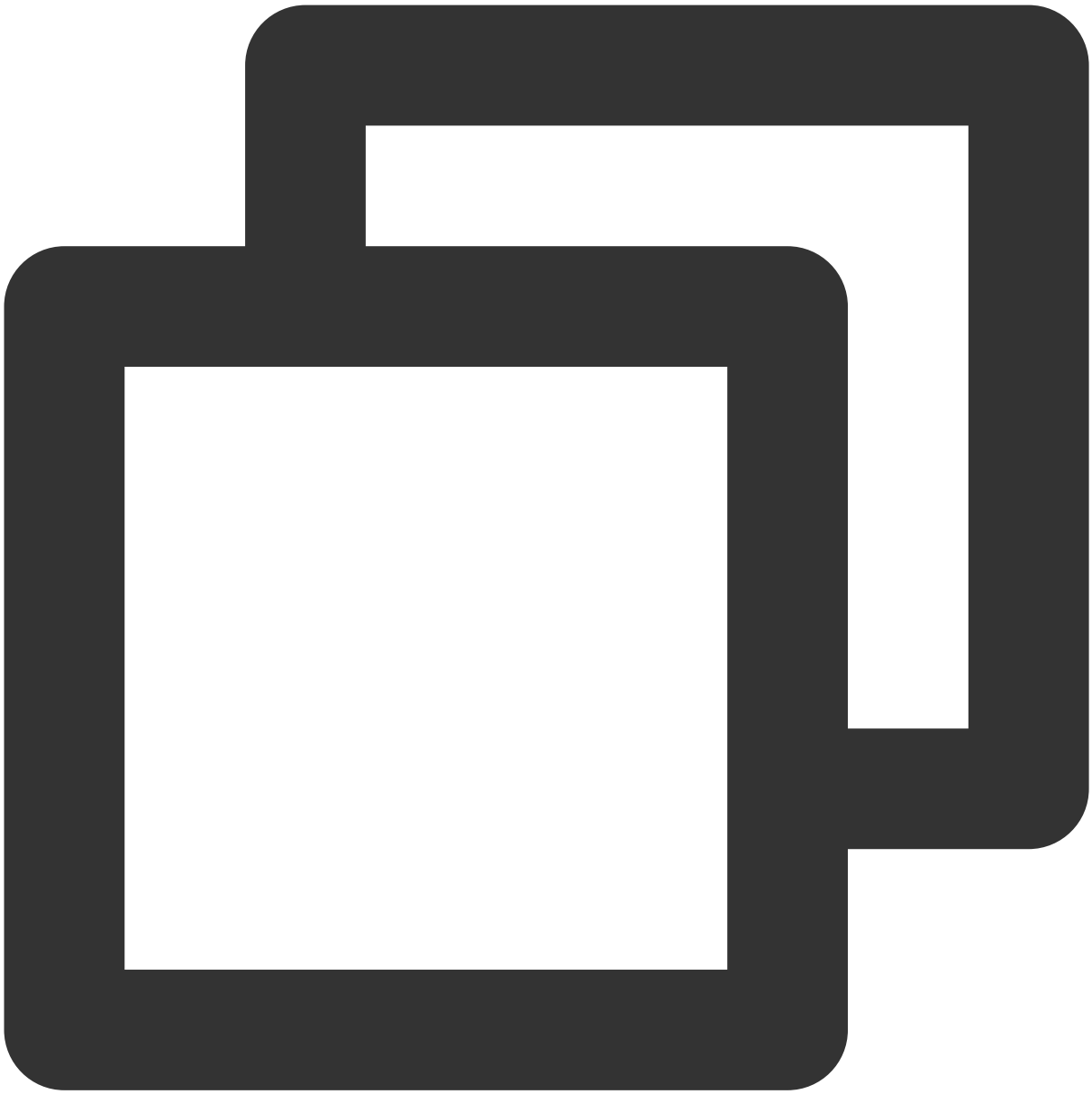


```
[root@VM_33_50_centos ~]# tccli cvm RunInstances --cli-unfold-argument --InstanceCh
```

More use cases

Use the following commands to learn more about TCCLI:

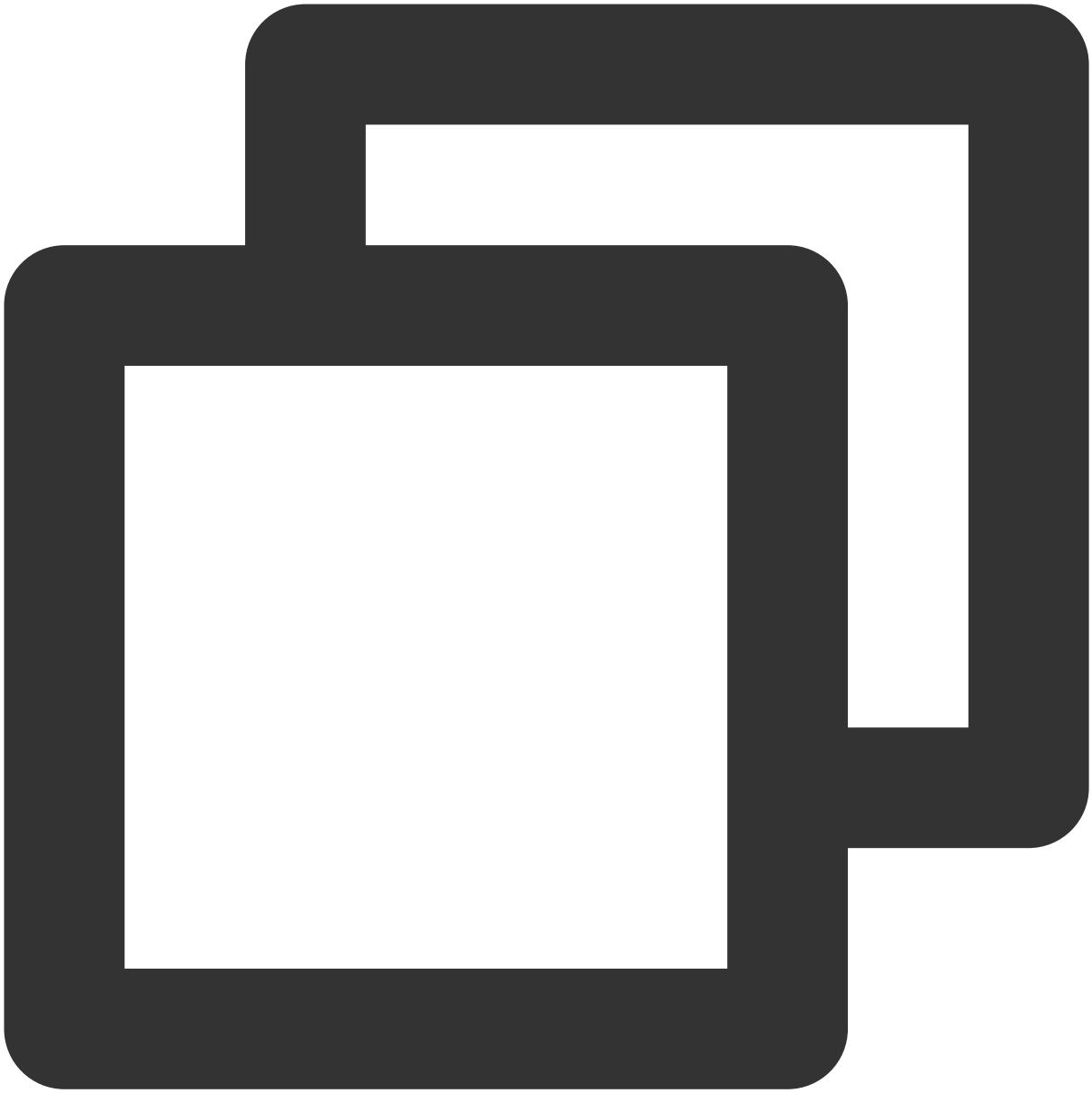
Run the `tccli help` command to learn all command usage.



```
[root@VM_33_50_centos ~]# tccli help
NAME
  tccli
DESCRIPTION
  tccli (Tencent Cloud Command Line Interface) is a tool to manage your Tencent Clo
CONFIGURE
  Before using tccli, you should use the command(tccli configure) to configure your
  formation, please enter tccli configure help
USEAGE
```

```
  tccli [options] <service> [options] <action> [options] [options and parameters]
OPTIONS
  help
  show the tccli help info
  --version
  show the version of tccli
AVAILABLE SERVICES
  af
  Describes how to manage loan anti-fraud via APIs.
  afc
  Describes how to customize modeling via APIs.
  ame
  Describes how to operate genuine music library via APIs, including material acqui
  ......
```

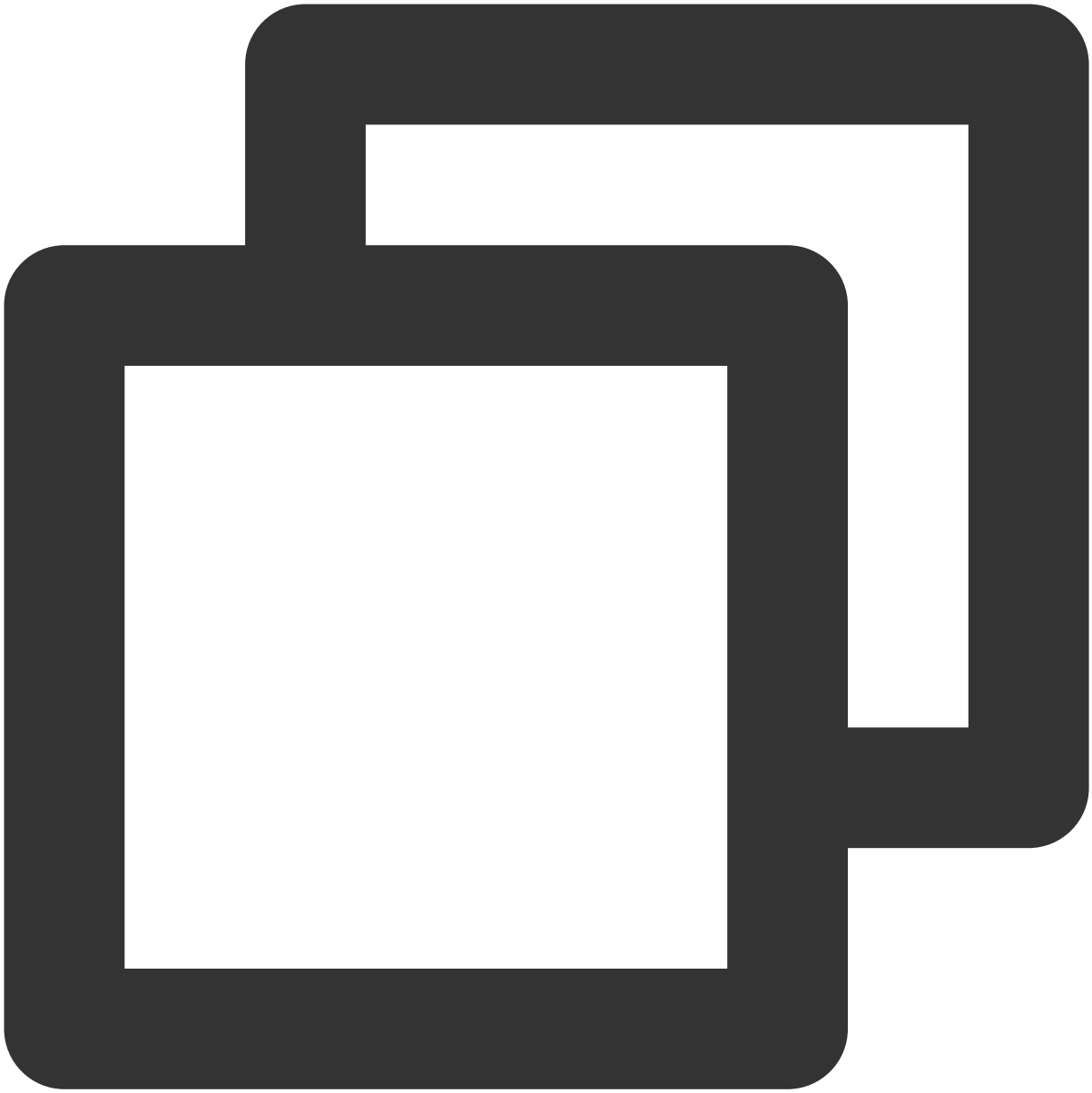
Run the `tccli cvm help` command to view supported APIs. This document uses CVM as an example.



```
[root@VM_33_50_centos ~]# tccli cvm help
NAME
  cvm
AVAILABLE VERSIONS
  2017-03-12
  Only the latest version will be displayed by default. Use `help --version xxxx-xx
DESCRIPTION
  cvm-2017-03-12
  Describes how to manage and operate CVM instances via APIs, including image, key,
USEAGE
  tccli cvm <action> [--param...]
```

```
OPTIONS
  help
  show the tccli cvm help info
AVAILABLE ACTIONS
  AllocateHosts
  Creates a CDH instance
  AssociateInstancesKeyPairs
  Binds a key pair
  AssociateSecurityGroups
  Binds a security group
  ......
```

Run the `tccli cbs DescribeDisks help` command to view the supported API parameters. This document uses DescribeDisks API for CBS as an example.

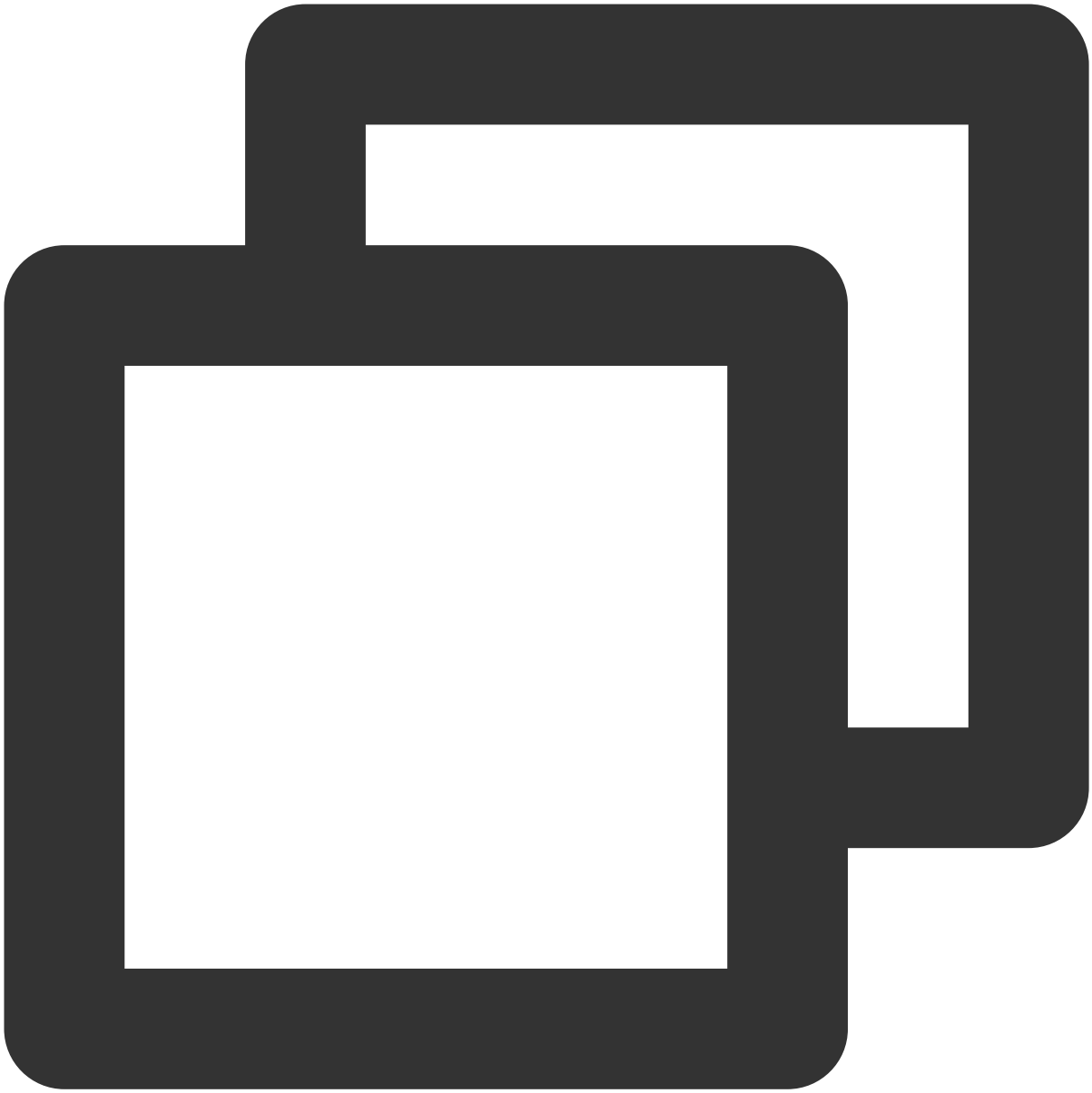


```
[root@VM_33_50_centos ~]# tccli cbs DescribeDisks help
NAME
  DescribeDisks
DESCRIPTION
  cbs-2017-03-12-DescribeDisks
  This API is used to query the list of cloud disks.
  * You can filter cloud disks by ID, type, status, etc. The relationship between d
  `Filter`.
  * If the parameter is empty, a number (as specified by `Limit`; the default is 20
USEAGE
  tccli cbs DescribeDisks [--param...]
```

```
OPTIONS
  help
  show the tccli cbs DescribeDisks help info
  --region
  identify the region to which the instance you want to work with belongs.
  --timeout
  specify a request timeout
  --secretKey
  specify a SecretKey
  ......
AVAILABLE PARAMS
  --Limit (Integer | Optional)
  The number of returned results. Default value: 20. Maximum value: 100. For more i
  --OrderField (String | Optional)
  Field by which the cloud disks are sorted in the response. Valid values: <br><li>
  <br>By default, the results are sorted by creation time.
  --Offset (Integer | Optional)
  The offset. Default value: 0. For more information on `Offset`, see the relevant
  ......
```

Output results to JSON, table or text.

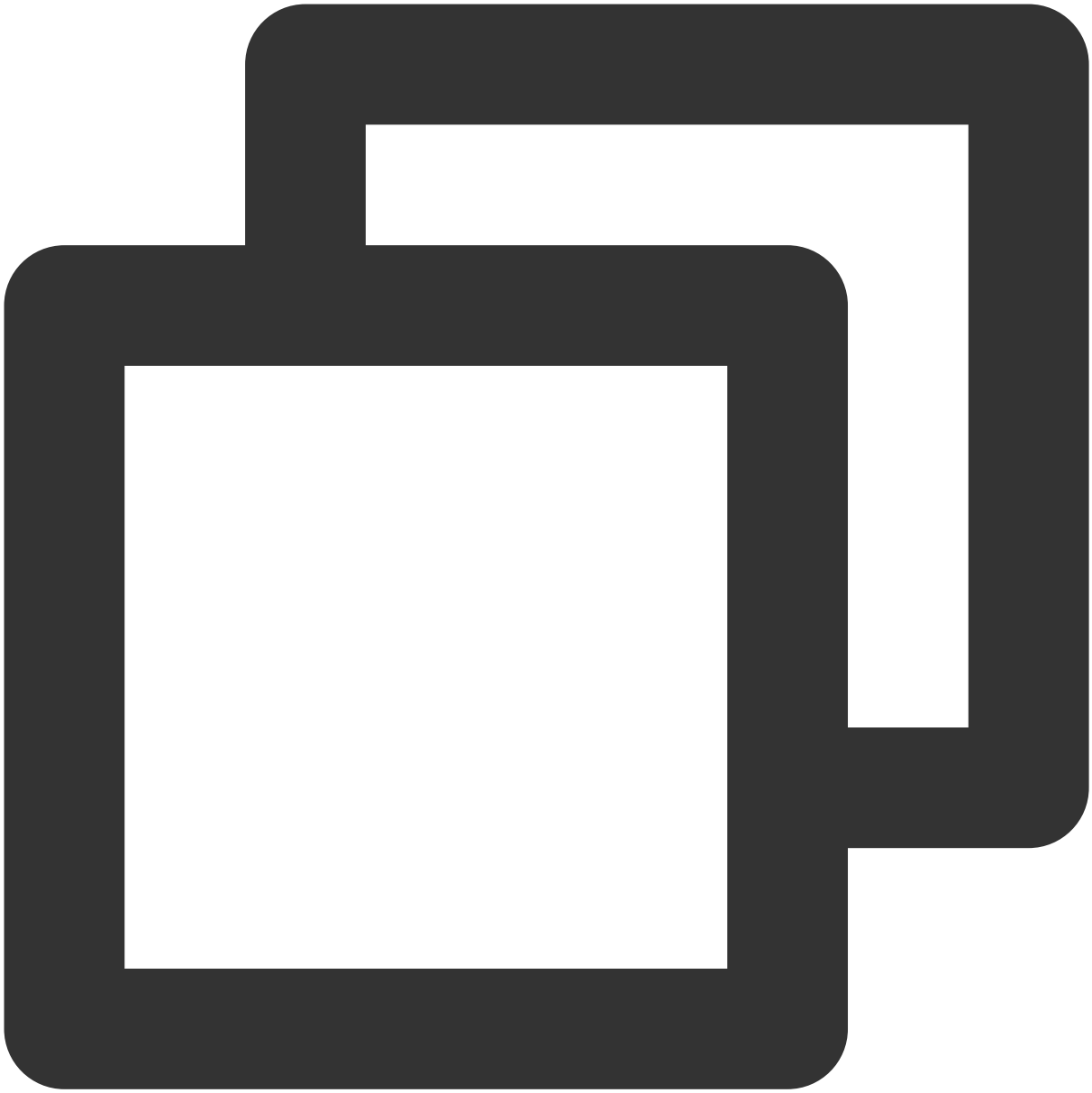
JSON



```
[root@VM_33_50_centos ~]# tccli cvm DescribeRegions
{
"TotalCount": 20,
"RegionSet": [
    {
        "RegionState": "AVAILABLE",
        "Region": "ap-beijing",
        "RegionName": "North China (Beijing)"
    },
    {
        "RegionState": "AVAILABLE",
```

```
            "Region": "ap-chengdu",
            "RegionName": "Southwest China (Chengdu)"
        },
        {
            "RegionState": "AVAILABLE",
            "Region": "ap-guangzhou",
            "RegionName": "South China (Guangzhou)"
        },
        {
            "RegionState": "AVAILABLE",
            "Region": "ap-hongkong",
            "RegionName": "Hong Kong, Macao and Taiwan, China (Hong Kong)"
        },
        {
            "RegionState": "AVAILABLE",
            "Region": "ap-singapore",
            "RegionName": "Southeast Asia (Singapore)"
        },
        {
            "RegionState": "AVAILABLE",
            "Region": "ap-tokyo",
            "RegionName": "Asia Pacific (Tokyo)"
        },
        {
            "RegionState": "AVAILABLE",
            "Region": "eu-frankfurt",
            "RegionName": "Europe (Frankfurt)"
        },
        ......
    ],
    "RequestId": "e5125cf1-****-****-****-316f18eed021"
    }
```

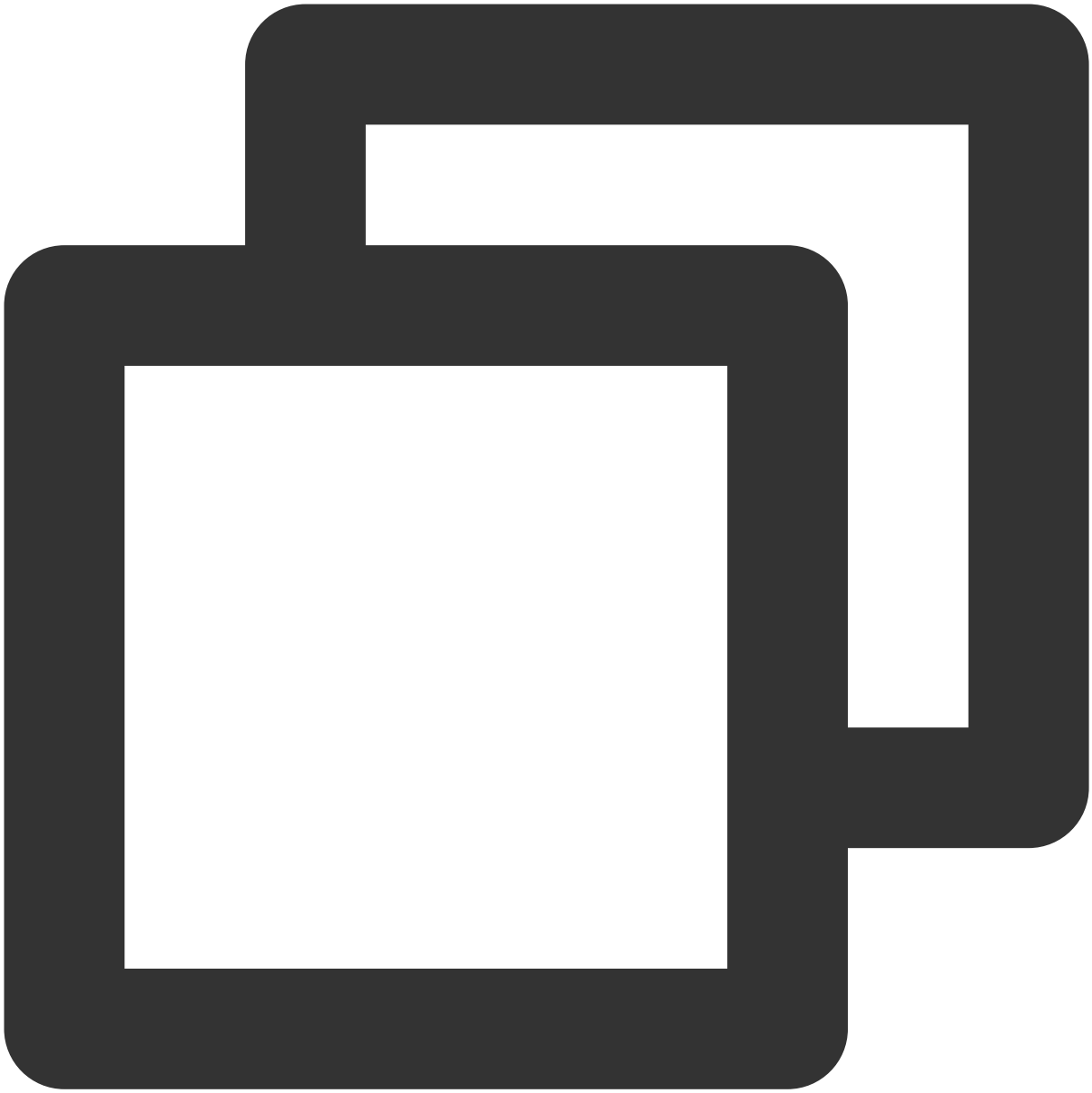

Table:



```
[root@VM_33_50_centos ~]# tccli cvm DescribeRegions --output table
--
|                        action                         |
+-------------------------------------+--------------+
|               RequestId             | TotalCount   |
+-------------------------------------+--------------+
|  1af5f2a0-****-****-****-462f0271a69f |  20          |
+-------------------------------------+--------------+
||                     RegionSet                      ||
|+-------------------+----------------+---------------+|
||      Region       |  RegionName    |  RegionState  ||
```

```
|+------------------+---------------+--------------+|
||  ap-bangkok      |  Asia Pacific (Bangkok)      |  AVAILABLE    ||
||  ap-beijing      |  North China (Beijing)       |  AVAILABLE    ||
||  ap-chengdu      |  Southwest China (Chengdu)   |  AVAILABLE    ||
||  ap-chongqing    |  Southwest China (Chongqing)     |  AVAILABLE    ||
||  ap-guangzhou    |  South China (Guangzhou)     |  AVAILABLE    ||
||  ap-guangzhou-open|   South China (Guangzhou Open)  |  AVAILABLE    ||
||  ap-hongkong     |  Hong Kong, Macao, and Taiwan (Hong Kong, China)    |  AVAILA
||  ap-mumbai       |  Asia Pacific (Mumbai)       |  AVAILABLE    ||
||  ap-nanjing      |  East China (Nanjing)        |  AVAILABLE    ||
||  ap-seoul        |  Asia Pacific (Seoul)        |  AVAILABLE    ||
||  ap-shanghai     |  East China (Shanghai)       |  AVAILABLE    ||
||  ap-singapore    |  Southeast Asia (Singapore)     |  AVAILABLE    ||
||  ap-tokyo        |  Asia Pacific (Tokyo)        |  AVAILABLE    ||
||  eu-frankfurt    |  Europe (Frankfurt)     |  AVAILABLE    ||
||  eu-moscow       |  Europe (Moscow)      |  AVAILABLE    ||
||  na-ashburn      |  Eastern US (Virginia)     |  AVAILABLE    ||
||  na-siliconvalley |  Western US (Silicon Valley)       |  AVAILABLE    ||
||  na-toronto      |  North America (Toronto)     |  AVAILABLE    ||
|+------------------+---------------+--------------+|
```

Text:



```
[root@VM_33_50_centos ~]# tccli cvm DescribeRegions --output text
70bbd02f-****-****-****-afc5c34018ae    20
REGIONSET       ap-bangkok      Asia Pacific (Bangkok)   AVAILABLE
REGIONSET       ap-beijing      North China (Beijing)  AVAILABLE
REGIONSET       ap-chengdu      Southwest China (Chengdu)  AVAILABLE
REGIONSET       ap-chongqing    Southwest China (Chongqing)  AVAILABLE
REGIONSET       ap-guangzhou    South China (Guangzhou)   AVAILABLE
REGIONSET       ap-guangzhou-open       South China (Guangzhou Open)      AVAILABLE
REGIONSET       ap-hongkong     Hong Kong, Macao, and Taiwan (Hong Kong, China)
REGIONSET       ap-mumbai       Asia Pacific (Mumbai)  AVAILABLE
REGIONSET       ap-nanjing      East China (Nanjing)  AVAILABLE
```

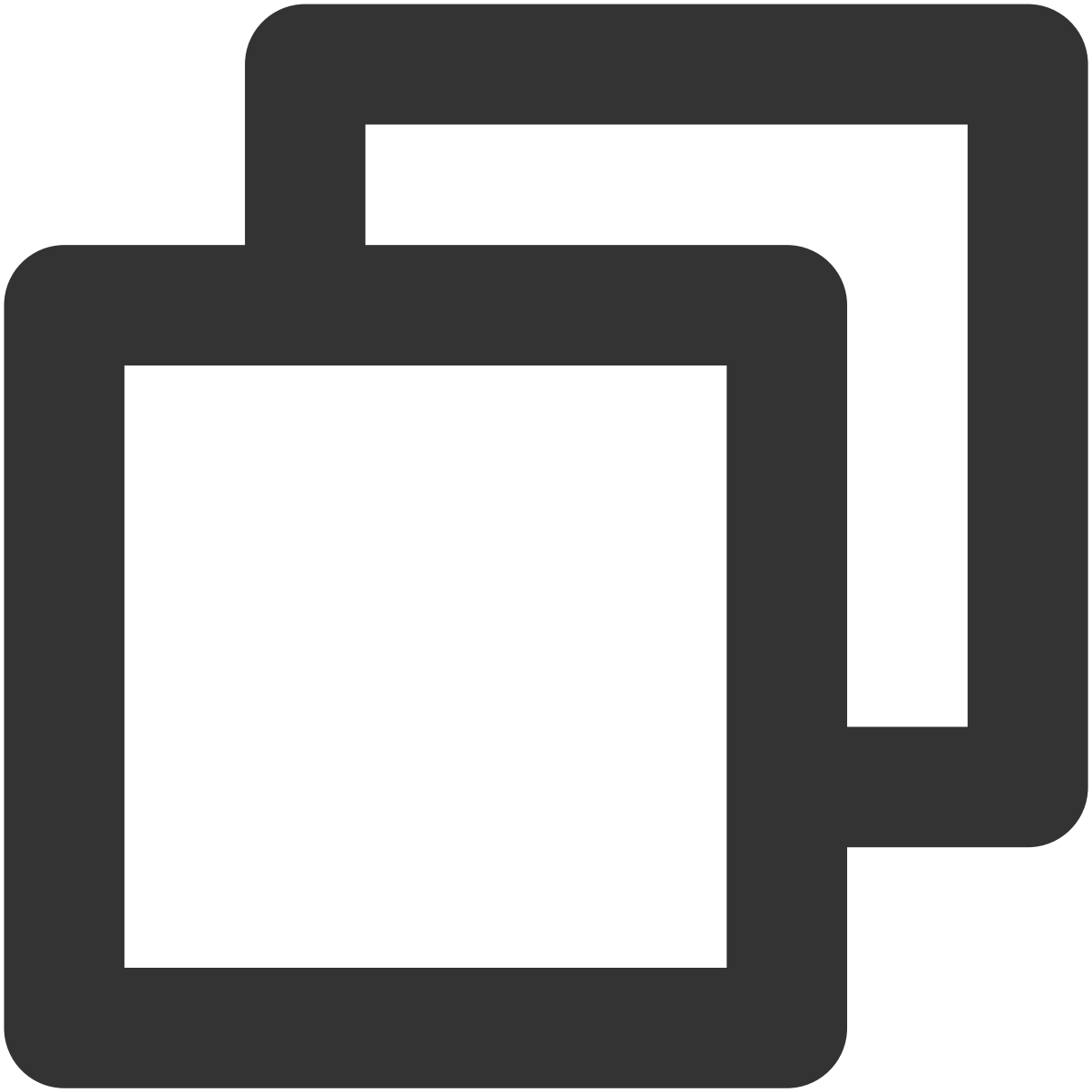
```
REGIONSET       ap-seoul        Asia Pacific (Seoul)  AVAILABLE
REGIONSET       ap-shanghai     East China (Shanghai) AVAILABLE
REGIONSET       ap-singapore    Southeast Asia (Singapore)      AVAILABLE
REGIONSET       ap-tokyo        Asia Pacific (Tokyo)   AVAILABLE
REGIONSET       eu-frankfurt   Europe (Frankfurt)      AVAILABLE
REGIONSET       eu-moscow       Europe (Moscow)        AVAILABLE
REGIONSET       na-ashburn      Eastern US (Virginia)      AVAILABLE
REGIONSET       na-siliconvalley        Western US (Silicon Valley)   AVAILABLE
REGIONSET       na-toronto      North America (Toronto)        AVAILABLE
```

Advanced features

This document uses CVM as an example to describe how to use TCCLI advanced features, including multi-version access, specifying nearest access point, filtering the return results, outputting input parameters to JSON, and passing in a JSON file.

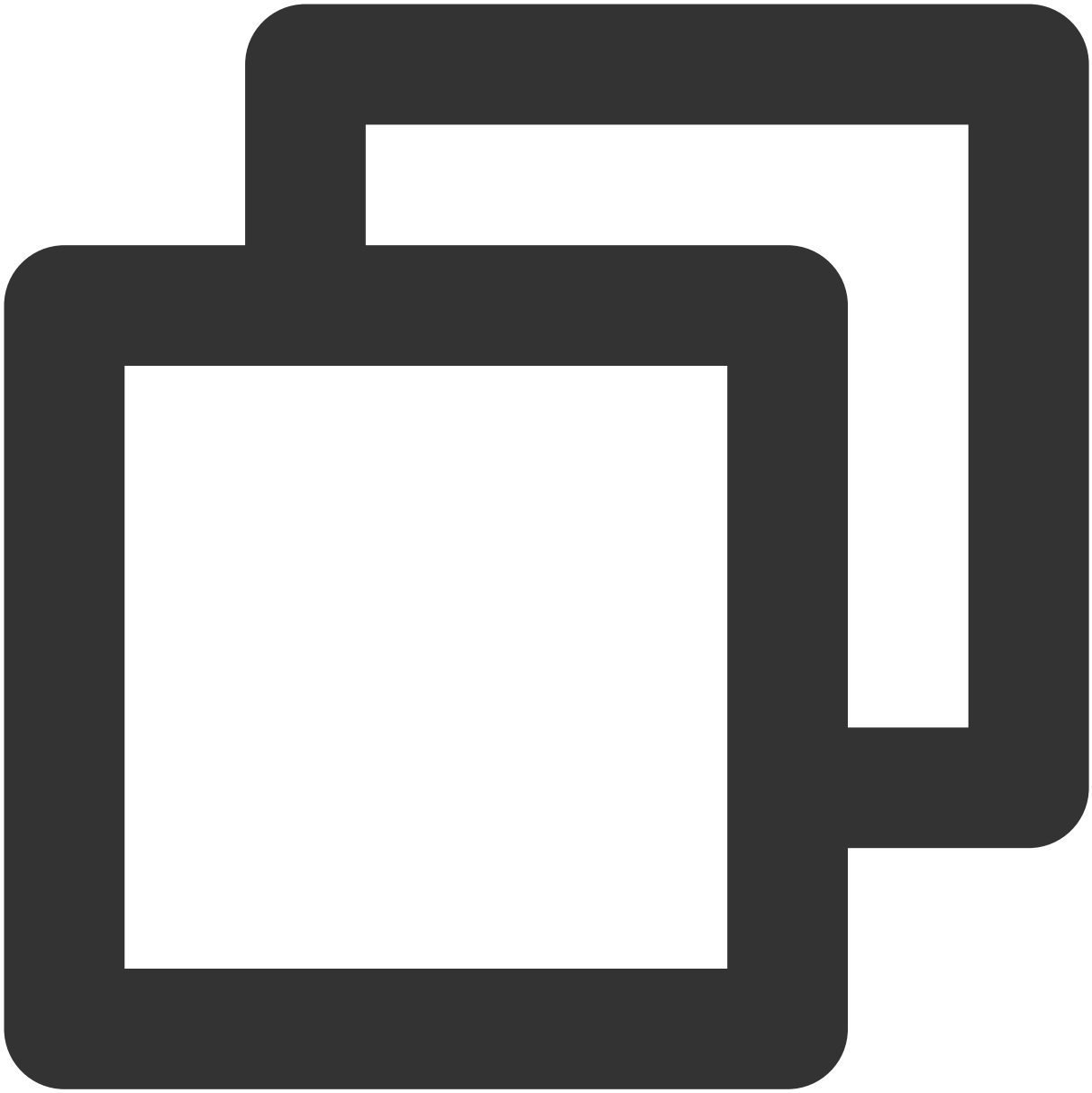
Multi-version API access

Some products may have APIs in multiple versions, and TCCLI accesses the latest version by default. If you want to access a specific legacy version, you can do so in the following way:
Method 1: use the default CVM version 2017-03-12



```
tccli configure set cvm.version 2017-03-12
```

Method 2: specify the version number during use

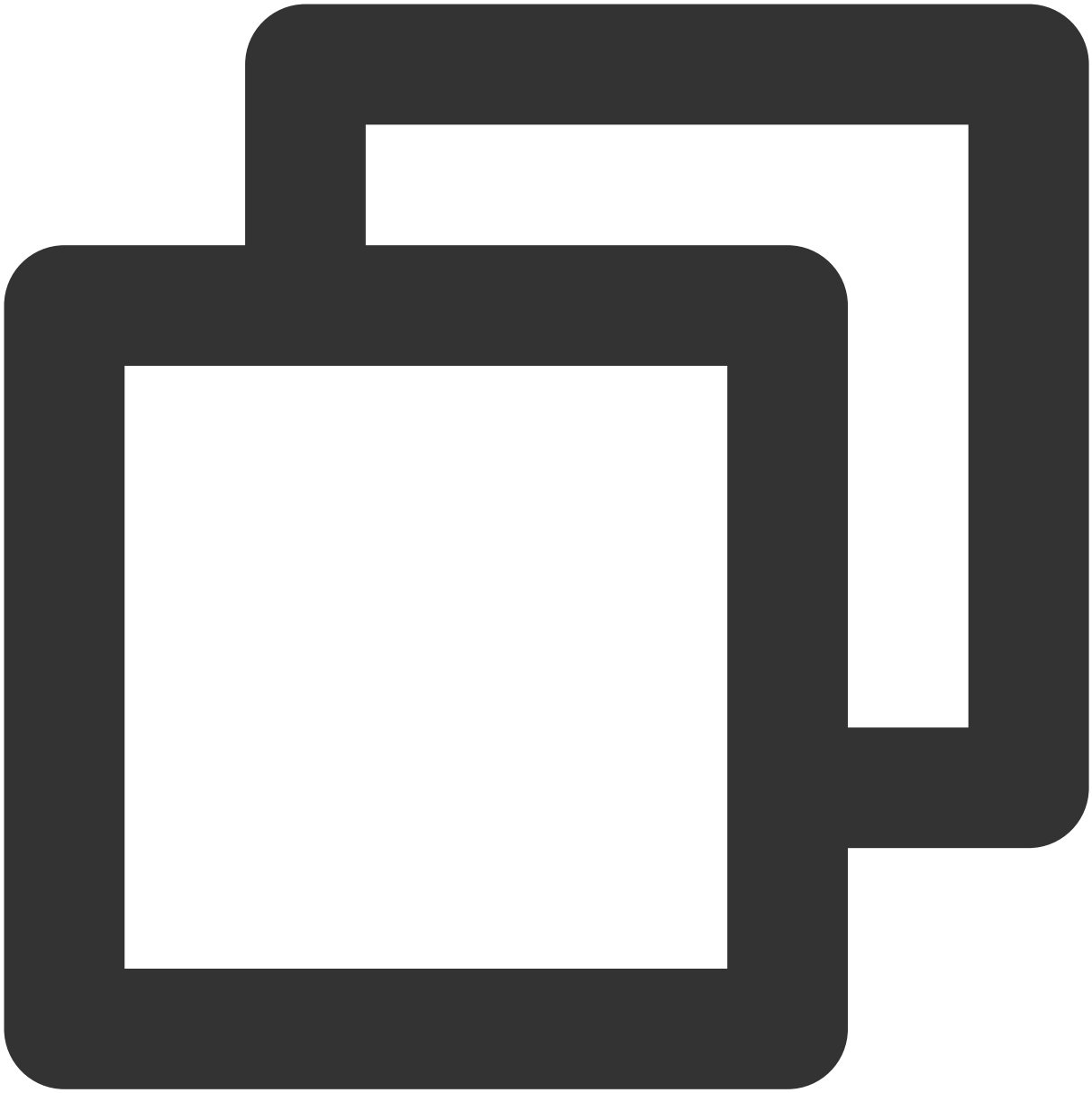


```
tccli cvm help --version 2017-03-12
tccli cvm DescribeZones help --version 2017-03-12
tccli cvm DescribeZones --version 2017-03-12
```

Specifying the nearest access point (Endpoint)

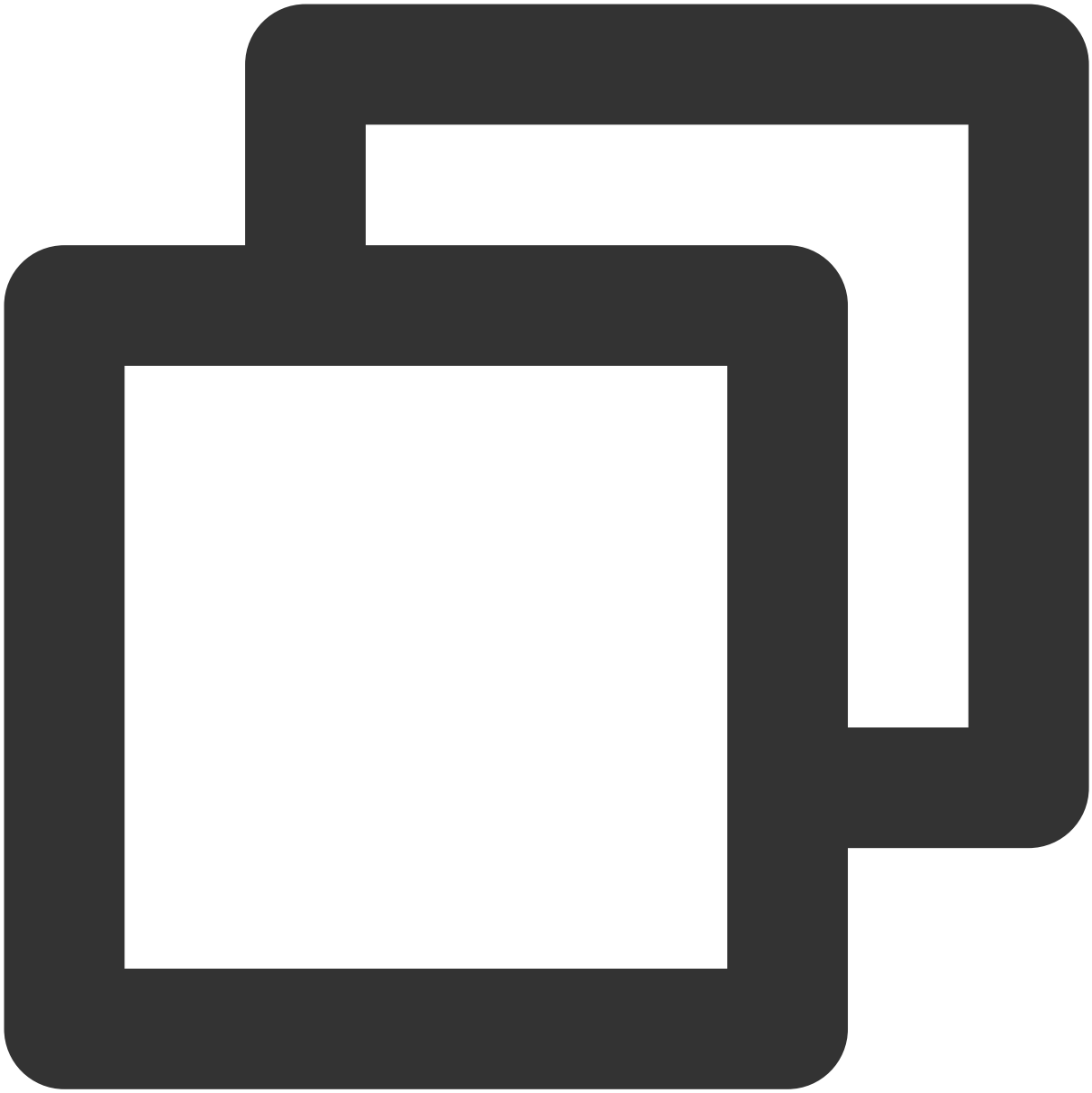
By default, TCCLI requests the nearest endpoint for accessing a service. You can also specify the endpoint for a product.

Set the default endpoint of the CVM product



```
tccli configure set cvm.endpoint cvm.ap-guangzhou.tencentcloudapi.com
```

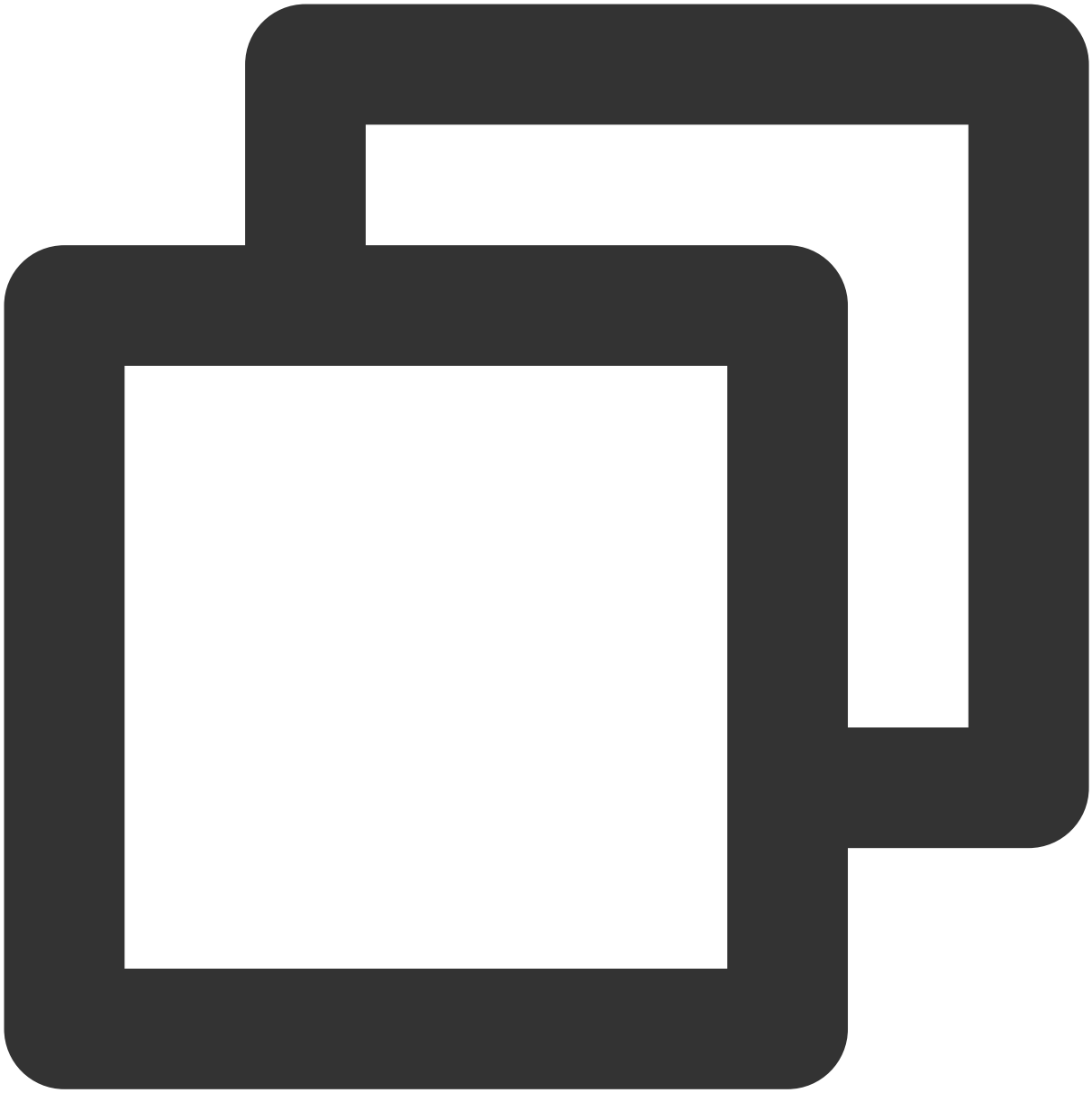
Specify the endpoint when calling



```
tccli cvm DescribeZones --endpoint cvm.ap-guangzhou.tencentcloudapi.com
```

Filtering return results

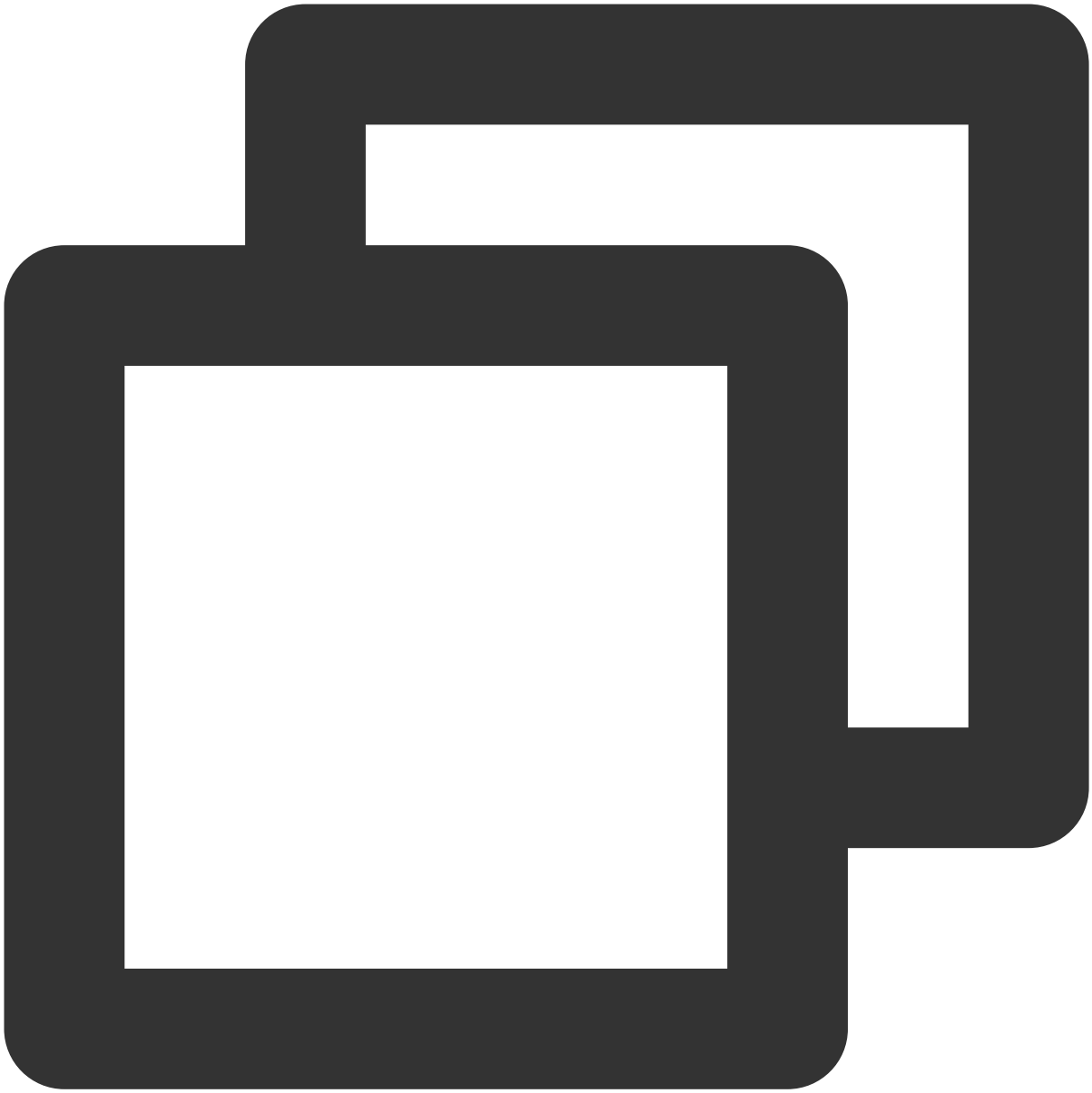
Output without any filtering (using the return result of the CVM DescribeZones API as an example):



```
[root@VM_180_248_centos ~]# tccli cvm DescribeZones
{
 "TotalCount": 4,
 "ZoneSet": [
     {
         "ZoneState": "AVAILABLE",
         "ZoneId": "100001",
         "Zone": "ap-guangzhou-1",
         "ZoneName": "Guangzhou Zone 1"
     },
     {
```

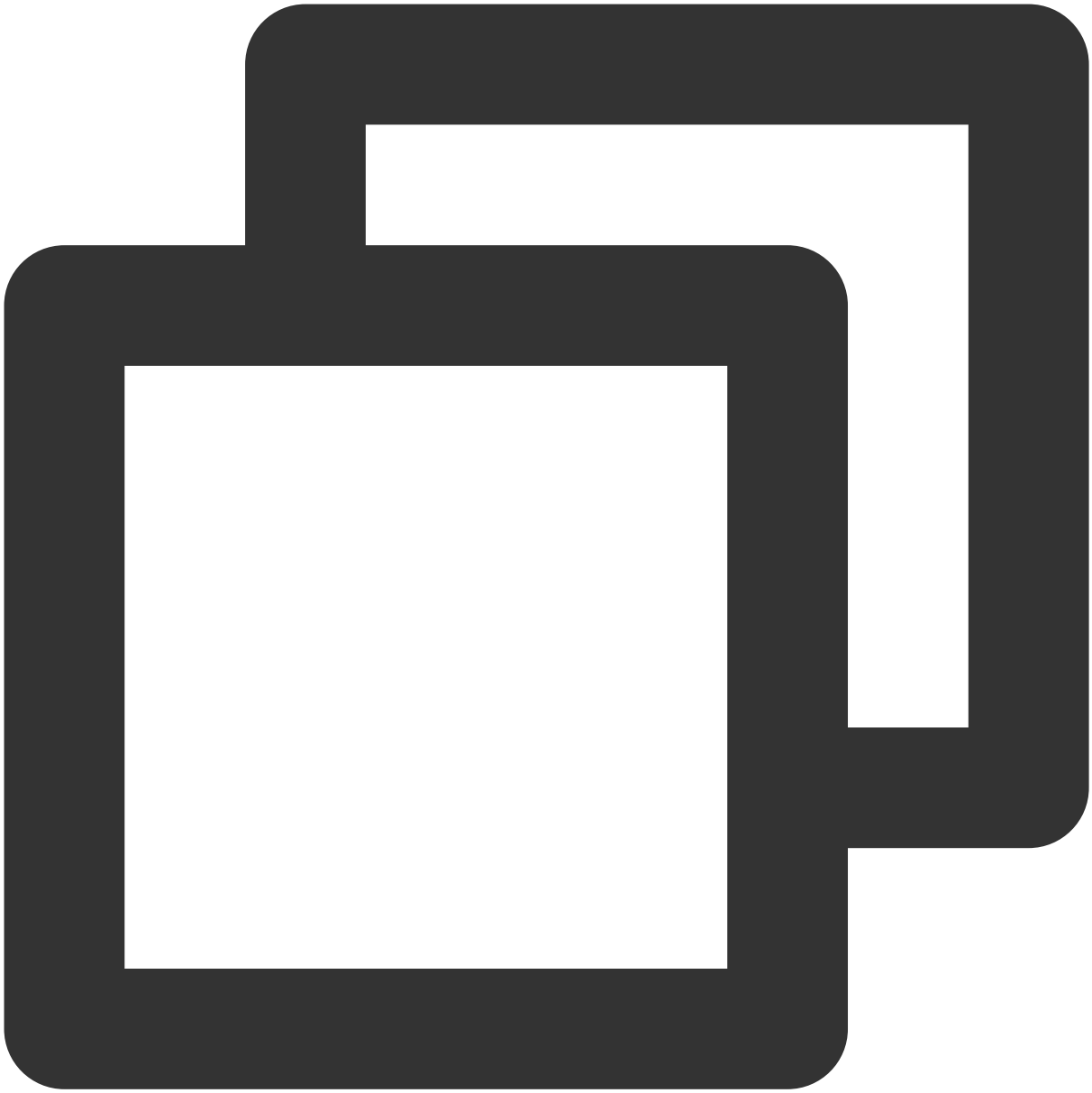
```
            "ZoneState": "AVAILABLE",
            "ZoneId": "100002",
            "Zone": "ap-guangzhou-2",
            "ZoneName": "Guangzhou Zone 2"
        },
        {
            "ZoneState": "AVAILABLE",
            "ZoneId": "100003",
            "Zone": "ap-guangzhou-3",
            "ZoneName": "Guangzhou Zone 3"
        },
        {
            "ZoneState": "AVAILABLE",
            "ZoneId": "100004",
            "Zone": "ap-guangzhou-4",
            "ZoneName": "Guangzhou Zone 4"
        }
    ],
    "RequestId": "4fd313a6-****-****-****-898c02fcae02"
}
```


View a specified field



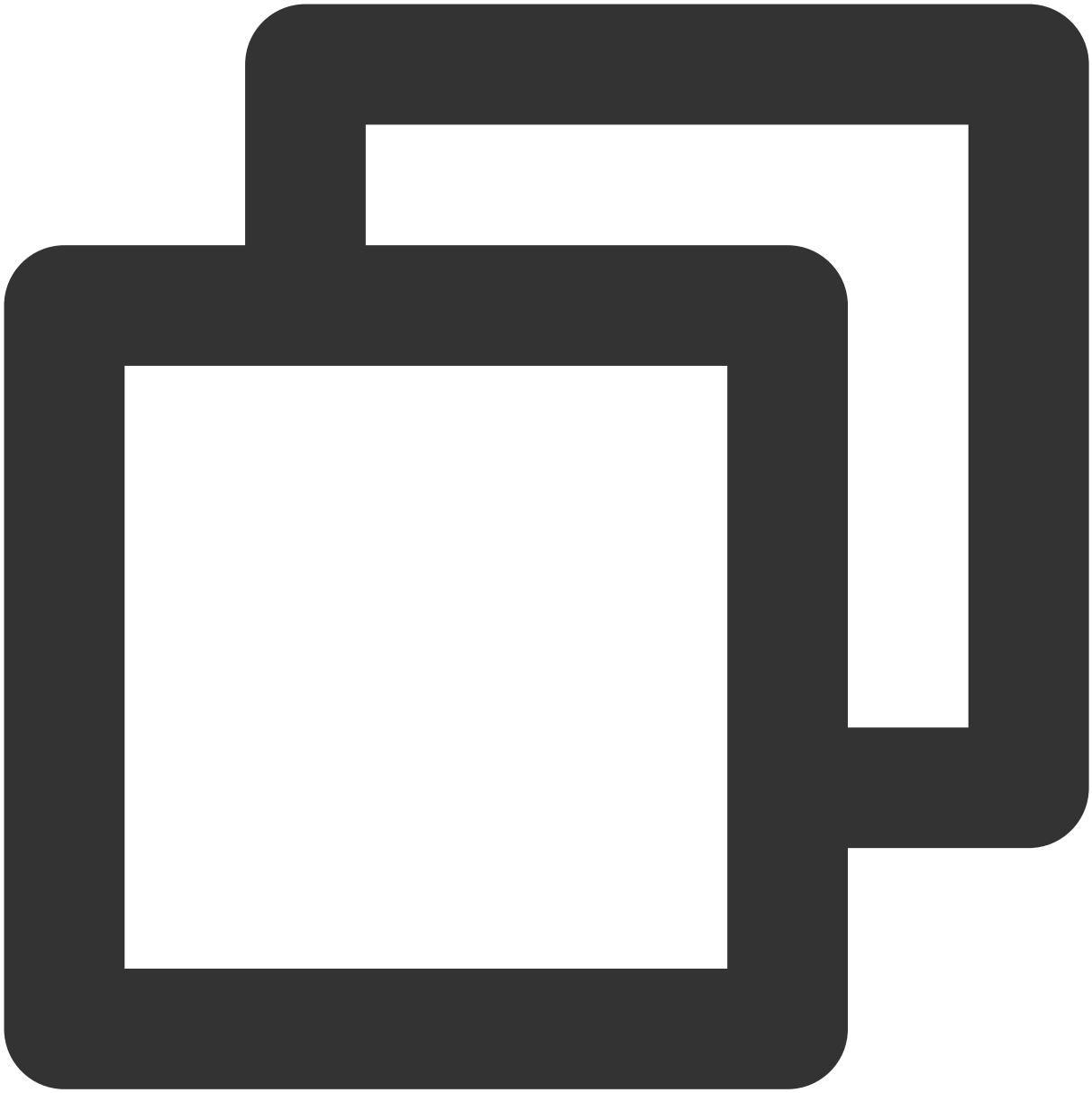
```
[root@VM_180_248_centos ~]# tccli cvm DescribeZones  --filter TotalCount
4
```

View the information of the Nth sub-object of a specified object in array type



```
[root@VM_180_248_centos ~]# tccli cvm DescribeZones  --filter ZoneSet[0]
{
 "ZoneState": "AVAILABLE",
 "ZoneId": "100001",
 "Zone": "ap-guangzhou-1",
 "ZoneName": "Guangzhou Zone 1"
}
```

View a certain field of all the sub-objects with a certain name under the specified object in array type.

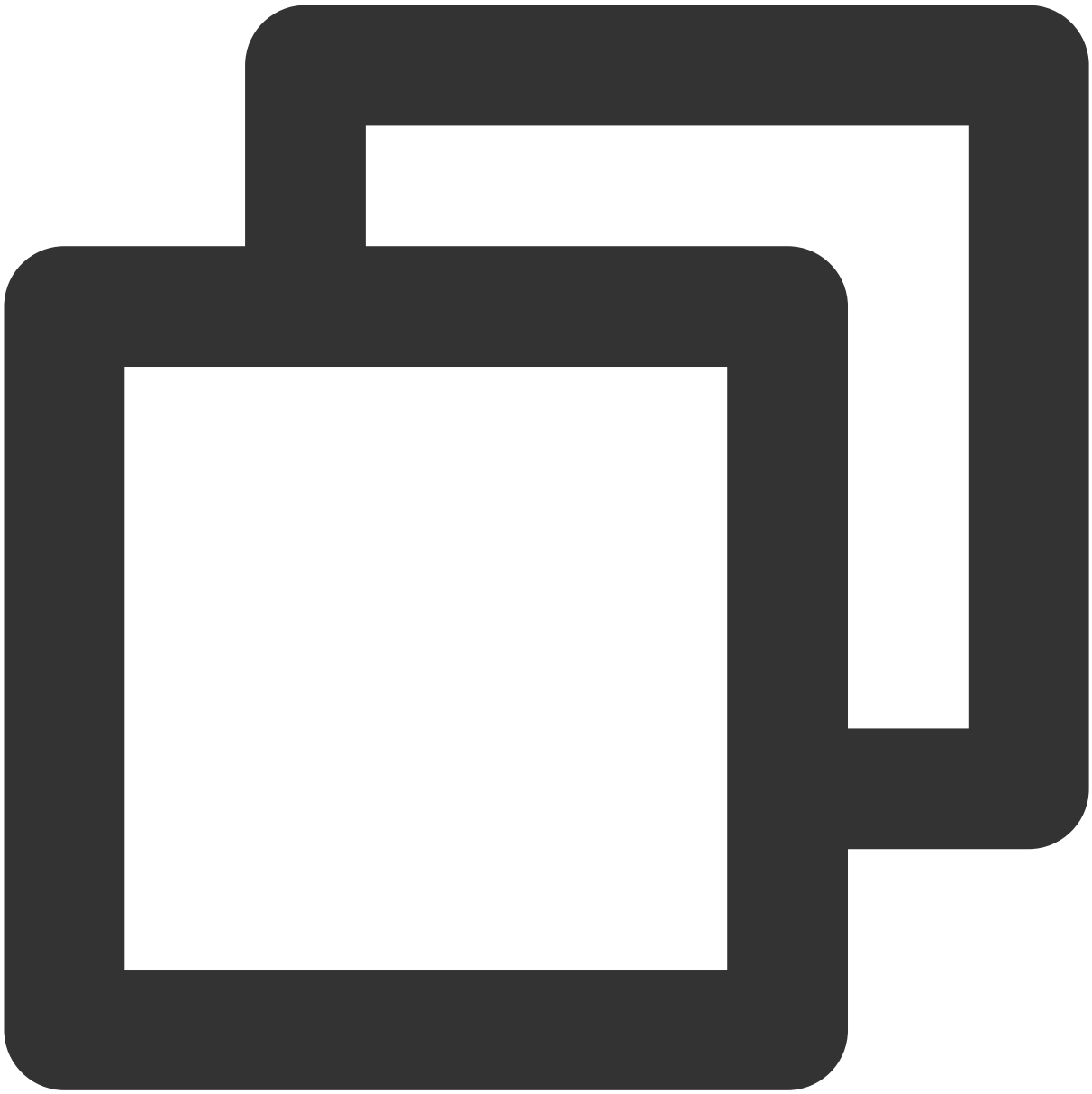


```
[root@VM_180_248_centos ~]# tccli cvm DescribeZones  --filter ZoneSet[*].ZoneName
[
 "Guangzhou Zone 1",
 "Guangzhou Zone 2",
 "Guangzhou Zone 3",
 "Guangzhou Zone 4"
]
```

Filter the sub-objects in an array and display them with a new name

Note:

The filter needs to be marked with single quotes.



```
[root@VM_180_248_centos ~]# tccli cvm DescribeZones  --filter 'ZoneSet[*].{name:Zo
 [
        {
                "name": "Guangzhou Zone 1",
                "id": "100001"
        },
        {
                "name": "Guangzhou Zone 2",
                "id": "100002"
```

```
            },
            {
                    "name": "Guangzhou Zone 3",
                    "id": "100003"
            },
            {
                    "name": "Guangzhou Zone 4",
                    "id": "100004"
            }
    ]
```

FAQs

How do I purchase TCCLI?

This service is free of charge. Please submit a ticket if you need any help.

How do I implement API authentication?

Select the **Making API Requests** > **Signature** directory of the product that supports API to authenticate access requests. For example, see Signature for CVM.

Using API Inspector

Last updated：2023-03-07 18:16:40

API Inspector is a new feature of TencentCloud API. It enables you to view the API calls associated with console operations. In addition, it can automatically generate API code snippets in different languages and work with API Explorer for online debugging.

Note:

API Inspector displays only open TencentCloud API 3.0 calls.

API Inspector is currently in beta for both the console and users.

For the CVM console, this feature is currently available only in the menus of instance, CDH, placement group, AS, SSH key, and recycle bin.

Refreshing your current page in the browser will remove previous call records.

Benefits

API Inspector and API Explorer together offer an integrated solution for TencentCloud API users to learn and debug APIs, with the following features:

Automatic recording: if you want to understand the APIs behind a specific feature, you can use API Inspector to get the call information of related APIs when using the feature in the console. For more information, please see Automatic API call recording.

Code generation: API Inspector can automatically generate API code snippets in various languages with prepopulated parameters, which you can run directly. For more information, please see Quick API code generation.

Online debugging: API Inspector comes with API Explorer's quick online debugging feature, and can perform various tasks such as automatic multilingual SDK code generation, online call capacity, sending real requests, and automatic signature string generation, making the SDKs easier to use. For more information, please see API Explorer online debugging.

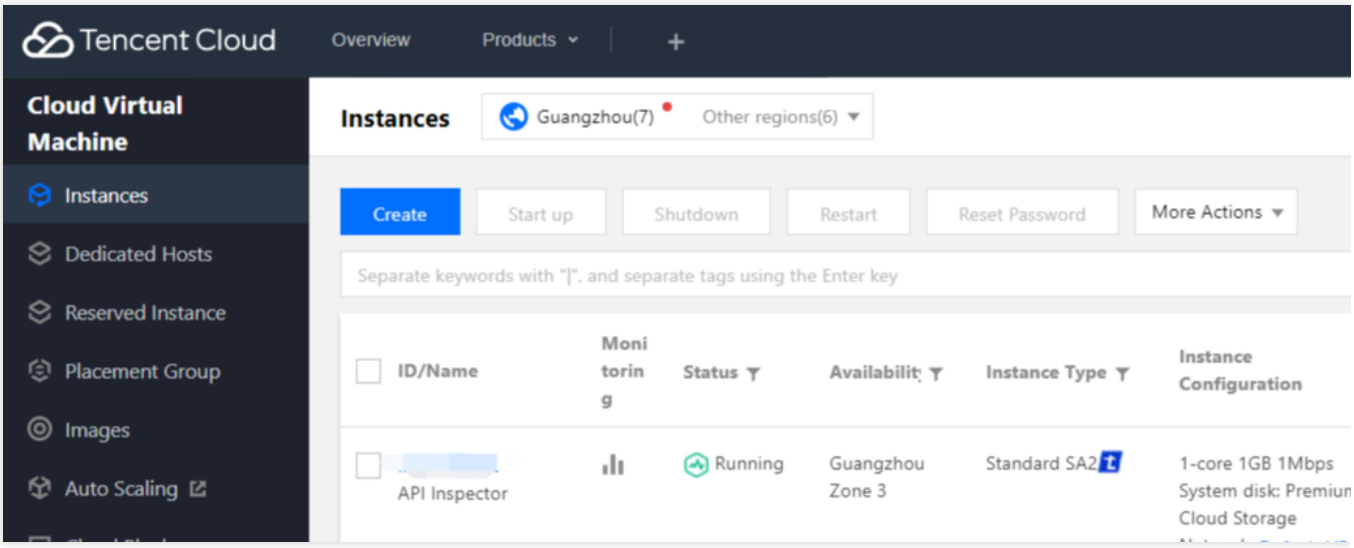
Features

Enabling API Inspector

Please follow the steps below to enable the API Inspector feature:

1. Log in to the CVM Console.
2. Select

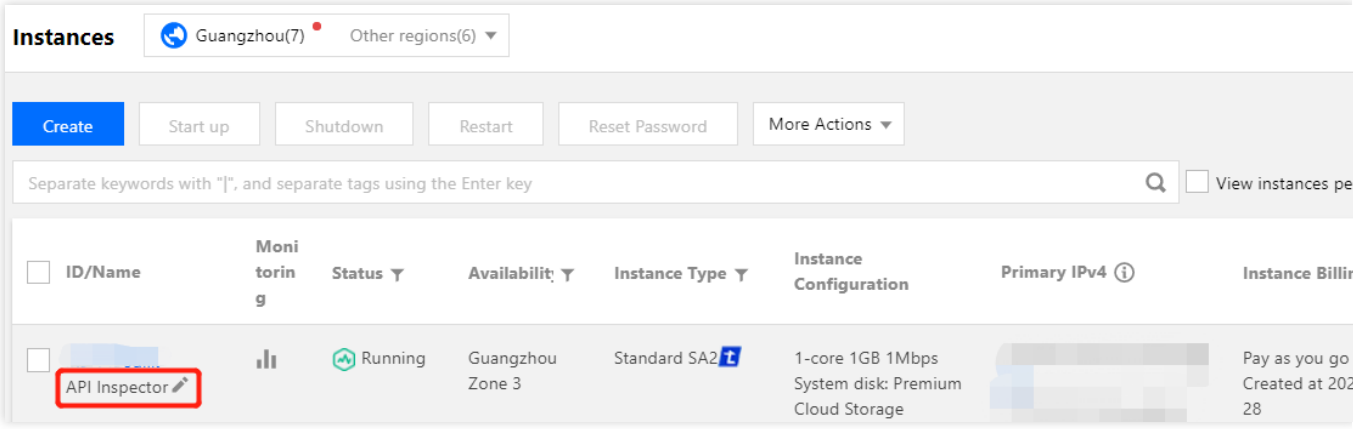
> **API** at the top of the page to enable API Inspector as shown below:



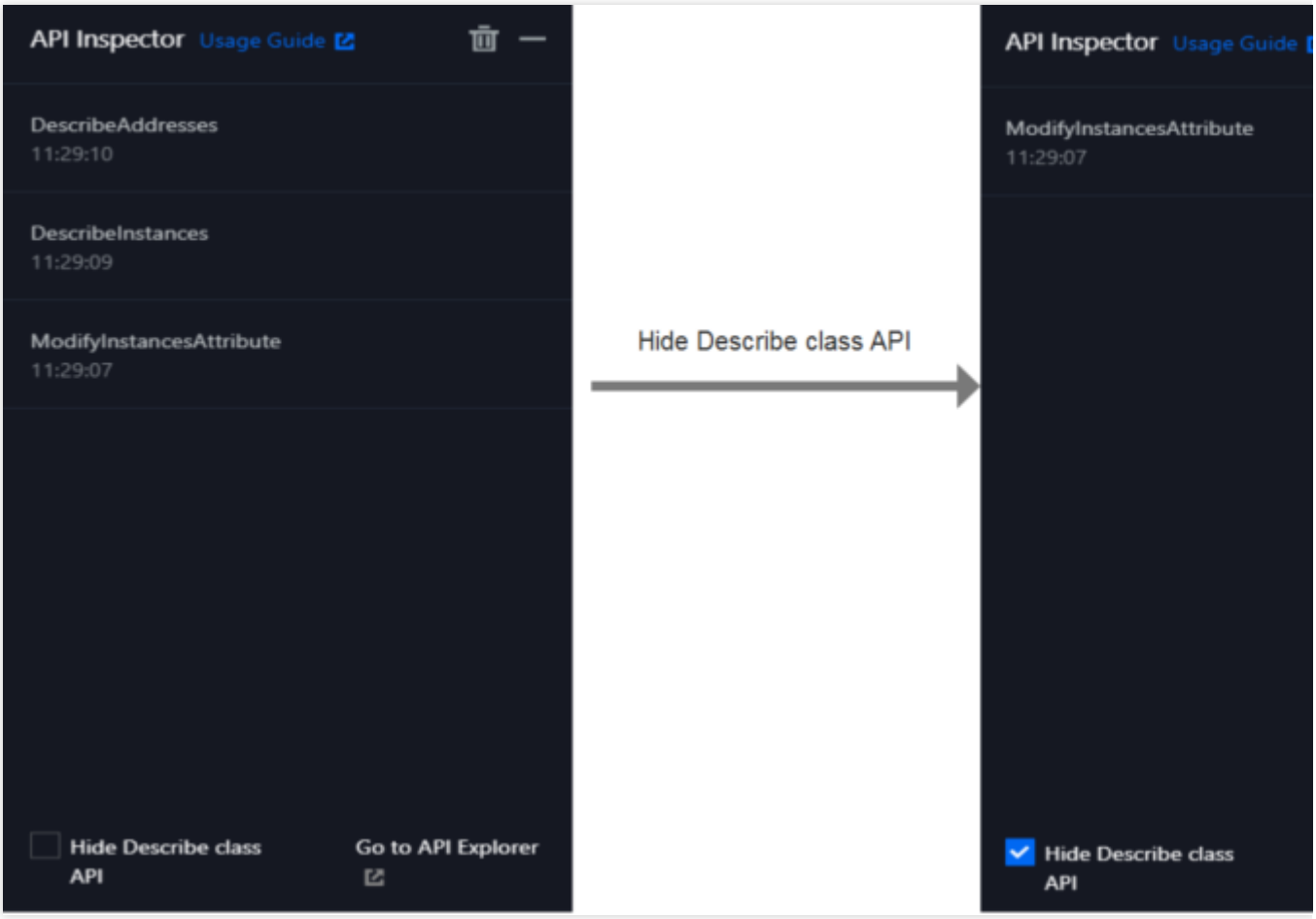
Automatic API call recording

This document will use renaming an instance as an example to describe the automatic recording feature of API Inspector:

1. Rename an instance to "API Inspector". For detailed directions, please see Renaming Instances.
2. Enable the API Inspector feature to view all API calls involved in the renaming operation.



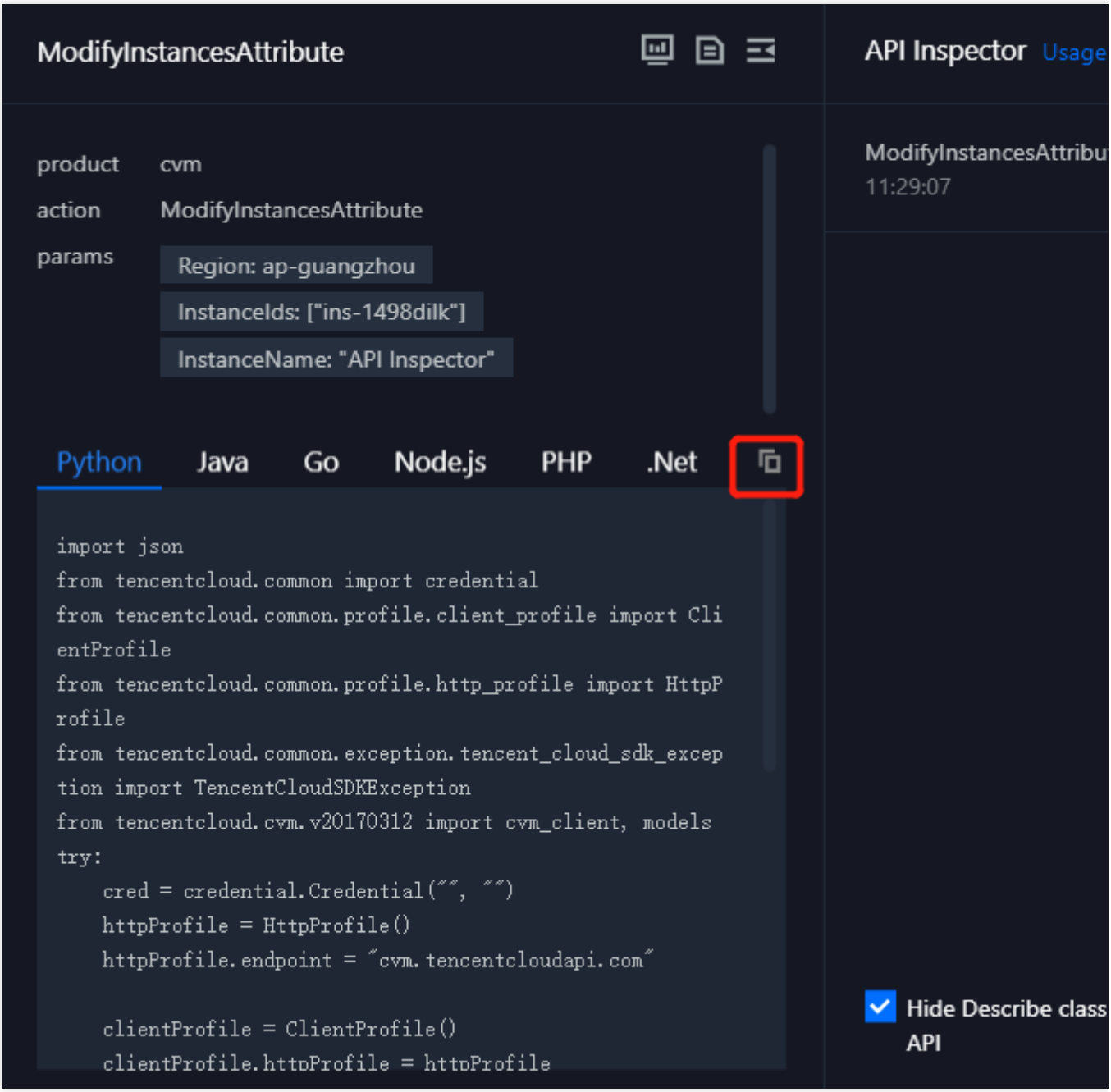
You can check "Hide Describe APIs" to view only the core feature-related APIs as shown below:



Quick API code generation

After you record an API used in a console operation, you can click the API name to quickly generate API code snippets with prepopulated parameters in Java, Python, Node.js, PHP, Go, and .NET languages. You can select

to copy the code snippet in the corresponding format as shown below:



API Explorer online debugging

You can select

or **Go to API Explorer** to debug features with API Explorer. You can also select

to view the corresponding API documentation as shown below: