

FunctionGraph

CLI Reference

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1 Using KooCLI

Huawei Cloud Koo Command Line Interface (KooCLI), previously named "HCloud CLI", is designed to manage Huawei Cloud service APIs released on [API Explorer](#). With KooCLI, you can call the open APIs of FunctionGraph in API Explorer to manage and use your FunctionGraph resources. For detailed information about KooCLI, see [What Is KooCLI?](#)

Installing KooCLI

Before using KooCLI, you need to install it. KooCLI supports three operating systems: Windows, Linux, and macOS. Install the corresponding version of the tool based on the operating system of your host.

- [Installing KooCLI in Windows](#)
- [Installing KooCLI in Linux](#)
- [Installing KooCLI in macOS](#)
- [Configuring and Using KooCLI in Docker](#)

Initializing KooCLI Configuration

When KooCLI is used to call APIs, the caller's identity information needs to be obtained for authentication. By configuring KooCLI initialization, you can store permanent AK/SK information in the configuration file. In this way, you do not need to frequently enter this information when calling APIs.

Skip this step if you intend to pass authentication parameters directly in commands. For details, see [Using KooCLI in Non-configuration Mode](#).

The following uses Windows as an example to describe how to initialize KooCLI configuration. The operations on Linux and macOS are similar. Before the initialization, obtain the AK/SK information. For details, see [Access Keys](#).

1. Open the CLI.
2. Run the following commands to initialize the configuration:

```
hcloud configure init
```

3. Enter the parameter values as prompted.

```
Access Key ID [required]: // Mandatory. Enter the AK.
```

```
Secret Access Key [required]: // Mandatory. Enter the SK. The system will anonymize the input.
```

```
Secret Access Key (again): // Mandatory. Enter the SK again. The system will anonymize the input.
```

```
Region: // Optional. Enter a region.
```

The message "Initialization successful" is then displayed.

Generating and Executing a CLI Command

KooCLI supports two methods for generating commands:

- Use API Explorer to quickly generate and obtain the CLI command for calling an API. This method is recommended as it is more convenient.
- Use CLI commands to query the operation commands and related parameters of APIs, and then manually combine the CLI commands to call the APIs. For details, see [Step 4: View and Run Cloud Service Operation Commands](#).

The following uses the FunctionGraph API for querying tenant quotas as an example to describe how to generate a CLI command in API Explorer and then run the CLI command to call the API.

1. On the [API Explorer](#) page of FunctionGraph, select the API for which you want to generate a CLI command.
2. On the parameter configuration page in the middle, set the parameters required for calling the API.
3. In the pane on the right, click the **CLI Example** tab and view the generated CLI command.

The following is an example of the CLI command for calling the API for querying tenant quotas:

```
hcloud FunctionGraph ListQuotas --cli-region="af-south-1" --Content-Type="application/json"
```

4. Copy the generated CLI command and paste it into the CLI for execution.

The following is an example of the CLI command output for calling the API for querying tenant quotas:

```
{
  "quotas": {
    "resources": [ {
      "quota": 60,
      "used": 3,
      "type": "fgs_func_scale_down_timeout"
    }, {
      "quota": 100,
      "used": 22,
      "type": "fgs_func_occurs"
    }, {
      "quota": 100,
      "used": 22,
      "type": "fgs_func_pat_idle_time"
    }, {
      "quota": 100,
      "used": 22,
      "type": "fgs_func_num"
    }, {
      "quota": 10240,
      "used": 22,
      "type": "fgs_func_code_size",
      "unit": "MB"
    }, {
      "quota": 512,
      "used": 22,
      "type": "fgs_workflow_num"
    }
  ]
}
```

2 CLI Command Reference

Function Quotas

API Name	Command	Description	Operation
Querying Tenant Quotas	hcloud FunctionGraph ListQuotas	This API is used to query tenant quotas.	Go debug

Dependencies

API Name	Command	Description	Operation
Querying Dependencies	hcloud FunctionGraph ListDependencies	This API is used to query all dependencies.	Go debug
Creating a Dependency Version	hcloud FunctionGraph CreateDependencyVersion	This API is used to create a dependency version.	Go debug
Querying Dependency Versions	hcloud FunctionGraph ListDependencyVersion	This API is used to query dependency versions.	Go debug
Querying a Dependency Version	hcloud FunctionGraph ShowDependencyVersion	This API is used to query the details about a dependency version.	Go debug
Deleting a Dependency Version	hcloud FunctionGraph DeleteDependencyVersion	This API is used to delete a dependency version.	Go debug

Test Events

API Name	Command	Description	Operation
Querying Test Events of a Function	hcloud FunctionGraph ListEvents	This API is used to query the test events of a function.	Go debug
Creating a Test Event	hcloud FunctionGraph CreateEvent	This API is used to create a test event.	Go debug
Obtaining the Details of a Test Event	hcloud FunctionGraph ShowEvent	This API is used to query the details of a test event.	Go debug
Updating a Test Event	hcloud FunctionGraph UpdateEvent	This API is used to update a test event.	Go debug
Deleting a Test Event	hcloud FunctionGraph DeleteEvent	This API is used to delete a test event.	Go debug

Function Tracing

API Name	Command	Description	Operation
Querying Tracing Configuration	hcloud FunctionGraph ShowTracing	This API is used to query the tracing configuration of a function.	Go debug
Modifying Tracing Configuration	hcloud FunctionGraph UpdateTracing	This API is used to modify the tracing configuration of a function. You can enable or modify the AK/SK or disable the AK/SK.	Go debug

Application

API Name	Command	Description	Operation
Querying Application Templates	hcloud FunctionGraph ListAppTemplates	This API is used to query application templates.	Go debug

API Name	Command	Description	Operation
Querying Details About an Application Template	hcloud FunctionGraph ShowAppTemplate	This API is used to query details about an application template.	Go debug
Querying Applications	hcloud FunctionGraph ListFunctionApplications	This API is used to query applications.	Go debug
Creating an Application	hcloud FunctionGraph CreateFunctionApp	This API is used to create an application.	Go debug
Querying Application Details	hcloud FunctionGraph ShowFunctionApp	This API is used to query application details.	Go debug
Deleting Applications	hcloud FunctionGraph DeleteFunctionApp	This API is used to delete applications.	Go debug

Function Lifecycle Management

API Name	Command	Description	Operation
Querying Functions	hcloud FunctionGraph ListFunctions	This API is used to query all functions.	Go debug
Creating a Function	hcloud FunctionGraph CreateFunction	This API is used to create a function.	Go debug
Deleting a Function or Function Version	hcloud FunctionGraph DeleteFunction	This API is used to delete a function or a non-latest version of a function.	Go debug
Querying the Code of a Function	hcloud FunctionGraph ShowFunctionCode	This API is used to query the code of a function.	Go debug
Modifying the Code of a Function	hcloud FunctionGraph UpdateFunctionCode	This API is used to modify the code of a function.	Go debug

API Name	Command	Description	Operation
Querying the Metadata of a Function	hcloud FunctionGraph ShowFunctionConfig	This API is used to query the metadata of a function.	Go debug
Modifying the Metadata of a Function	hcloud FunctionGraph UpdateFunctionConfig	This API is used to modify the metadata of a function.	Go debug
Updating Max. Instances of a Function	hcloud FunctionGraph UpdateFunctionMaxInstanceConfig	This API is used to update the maximum number of instances of a function.	Go debug
Enabling or Disabling the Snapshot Function	hcloud FunctionGraph UpdateFuncSnapshot	This API is used to enable or disable the snapshot feature. It is available only for non-latest versions of Java functions.	Go debug
Querying Snapshot Status	hcloud FunctionGraph ShowFuncSnapshotState	This API is used to query snapshot status.	Go debug
Querying Resources	hcloud FunctionGraph ShowResInstanceInfo	This API is used to query resources.	Go debug
Querying Resource Tags	hcloud FunctionGraph ShowProjectTags-List	This API is used to query resource tags.	Go debug
Querying Function Tags	hcloud FunctionGraph ListFunctionTags	This API is used to query function tags.	Go debug
Creating Resource Tags	hcloud FunctionGraph CreateTags	This API is used to create resource tags.	Go debug
Deleting Resource Tags	hcloud FunctionGraph DeleteTags	This API is used to delete resource tags.	Go debug
Creating a VPC Endpoint	hcloud FunctionGraph CreateVpcEndpoint	This API is used to create a VPC endpoint.	Go debug

API Name	Command	Description	Operation
Deleting a VPC Endpoint	hcloud FunctionGraph DeleteVpcEndpoint	This API is used to delete a VPC endpoint.	Go debug
Querying ServiceBridge Functions Bound to a Specified Function	hcloud FunctionGraph ListBridgeFunctions	This API is used to query ServiceBridge functions bound to a specified function.	Go debug
Querying the Available ServiceBridge Version	hcloud FunctionGraph ListBridgeVersions	This API is used to query the available ServiceBridge version.	Go debug
Updating the Pinning Status of a Function	hcloud FunctionGraph UpdateFunctionCollectState	This API is used to update the pinning status of a function.	Go debug

Versions and Aliases

API Name	Command	Description	Operation
Querying All Versions and Aliases of a Function	hcloud FunctionGraph ListVersionAliases	This API is used to query the versions and aliases of a function.	Go debug
Creating an Alias for a Function Version	hcloud FunctionGraph CreateVersionAliases	This API is used to create an alias for a function version.	Go debug
Querying the Alias of a Function Version	hcloud FunctionGraph ShowVersionAlias	This API is used to query the alias of a function version.	Go debug
Modifying the Alias of a Function Version	hcloud FunctionGraph UpdateVersionAliases	This API is used to modify the alias of a function version.	Go debug
Deleting an Alias of a Function Version	hcloud FunctionGraph DeleteVersionAliases	This API is used to delete an alias of a function version.	Go debug

API Name	Command	Description	Operation
Querying the Versions of a Function	hcloud FunctionGraph ListFunctionVer- sions	This API is used to query the versions of a function.	Go debug
Publishing a Function Version	hcloud FunctionGraph CreateFunctionVer- sion	This API is used to publish a function version.	Go debug

Function Metrics

API Name	Command	Description	Operation
Querying Top Functions for a Specified Metric	hcloud FunctionGraph ListFunctionAsMet- ric	This API is used to query the top functions for a specified metric.	Go debug
Querying Tenant-Level Function Statistics	hcloud FunctionGraph ListStatistics	This API is used to query tenant-level function statistics.	Go debug
Querying Instance Usage Metrics of a Specified Function	hcloud FunctionGraph ShowFuncReserve- dInstanceMetrics	Query instance usage metrics of a function.	Go debug
Querying Instance Traffic Metrics of a Function	hcloud FunctionGraph ShowFunctionMet- rics	This API is used to query the instance traffic metrics of a function.	Go debug
Querying Metrics in a Specified Period	hcloud FunctionGraph ListFunctionStatis- tics	This API is used to query metrics of a function in a specified period.	Go debug

Function Logs

API Name	Command	Description	Operation
Querying the Log Group and Stream of a Function	hcloud FunctionGraph ShowLtsLogDetail- s	This API is used to query the LTS log group and stream settings of a function.	Go debug

API Name	Command	Description	Operation
Enabling Log Reporting to LTS	hcloud FunctionGraph EnableLtsLogs	This API is used to enable log reporting to LTS.	Go debug
Enabling Asynchronous Status Notification	hcloud FunctionGraph EnableAsyncStatusLog	Enable asynchronous status notification.	Go debug
Querying Details About Asynchronous Invocation Logs	hcloud FunctionGraph ShowProjectAsyncStatusLogInfo	This API is used to query details about asynchronous invocation logs.	Go debug

Templates

API Name	Command	Description	Operation
Querying Function Templates	hcloud FunctionGraph ListFunctionTemplate	This API is used to query function templates.	Go debug
Querying a Specified Function Template	hcloud FunctionGraph ShowFunctionTemplate	This API is used to query a specified function template.	Go debug

Reserved Instances

API Name	Command	Description	Operation
Querying Reserved Instances of a Function	hcloud FunctionGraph ListReservedInstanceConfigs	This API is used to query reserved instances of a function.	Go debug
Changing the Number of Reserved Instances	hcloud FunctionGraph UpdateFunctionReservedInstancesCount	This API is used to change the number of reserved instances.	Go debug
Querying the Number of Reserved Instances	hcloud FunctionGraph ListFunctionReservedInstances	This API is used to query the number of instances reserved for a function.	Go debug

Function Import and Export

API Name	Command	Description	Operation
Exporting a Function	hcloud FunctionGraph ExportFunction	This API is used to export a function.	Go debug
Importing a Function	hcloud FunctionGraph ImportFunction	This API is used to import a function.	Go debug

Function Invocation

API Name	Command	Description	Operation
Executing a Function Synchronously	hcloud FunctionGraph InvokeFunction	This API is used to execute a function synchronously. Clients must wait for explicit responses to their requests from the function. Responses are returned only after function invocation is complete.	Go debug
Executing a Function Asynchronously	hcloud FunctionGraph AsyncInvokeFunction	This API is used to execute a function asynchronously.	Go debug

Function Triggers

API Name	Command	Description	Operation
Querying All Triggers of a Function	hcloud FunctionGraph ListFunctionTriggers	This API is used to query all triggers of a function.	Go debug
Creating a Trigger	hcloud FunctionGraph CreateFunctionTrigger	This API is used to create a trigger.	Go debug

API Name	Command	Description	Operation
Deleting All Triggers of a Function	hcloud FunctionGraph BatchDeleteFunctionTriggers	This API is used to delete all triggers of a function.	Go debug
Querying a Trigger	hcloud FunctionGraph ShowFunctionTrigger	This API is used to query a specified trigger.	Go debug
Updating a Trigger	hcloud FunctionGraph UpdateTrigger	This API is used to update a trigger.	Go debug
Deleting a Trigger	hcloud FunctionGraph DeleteFunctionTrigger	This API is used to delete a trigger.	Go debug

Function Flows

API Name	Command	Description	Operation
Executing a Function Flow Synchronously	hcloud FunctionGraph StartSyncWorkflowExecution	This API is used to execute a function flow synchronously. It is supported only for express flows.	Go debug
Querying Instances of a Flow	hcloud FunctionGraph ListWorkflowExecutions	This API is used to query the instances of a flow.	Go debug
Executing a Function Flow	hcloud FunctionGraph StartWorkflowExecution	This API is used to execute a function flow asynchronously.	Go debug
Querying a Flow	hcloud FunctionGraph ListWorkflow	This API is used to query a function flow.	Go debug
Creating a Flow	hcloud FunctionGraph CreateWorkflow	This API is used to create a function flow.	Go debug
Deleting Flows	hcloud FunctionGraph BatchDeleteWorkflows	This API is used to delete specified function flows.	Go debug

API Name	Command	Description	Operation
Querying a Flow Instance	hcloud FunctionGraph ShowWorkflowExecution	This API is used to query a specified instance of a function flow.	Go debug
Querying Metadata of a Flow Instance	hcloud FunctionGraph ShowWorkFlow	This API is used to query the metadata of specified function flow instance.	Go debug
Modifying Metadata of a Flow Instance	hcloud FunctionGraph UpdateWorkFlow	This API is used to modify the metadata of a specified function flow instance.	Go debug
Querying Flow Metrics	hcloud FunctionGraph ShowTenantMetric	This API is used to query metrics of all function flows.	Go debug
Querying Metrics of a Flow	hcloud FunctionGraph ShowWorkFlowMetric	This API is used to query the metrics of a function flow.	Go debug
Re-executing a Flow	hcloud FunctionGraph RetryWorkFlow	This API is used to re-execute a function flow.	Go debug
Stopping a Flow	hcloud FunctionGraph StopWorkFlow	This API is used to stop a function flow.	Go debug
Paging to get the list of execution instances of the specified function stream	hcloud FunctionGraph ShowWorkflowExecutionForPage	Paging to get the list of execution instances of the specified function stream	Go debug
Calling Back a Flow	hcloud FunctionGraph CreateCallbackWorkflow	This API is used to call back a flow.	Go debug

Asynchronous Execution Notification

API Name	Command	Description	Operation
Querying Asynchronous Execution Notification Settings of a Function Version	hcloud FunctionGraph ShowFunctionAsyncInvokeConfig	This API is used to query the asynchronous invocation setting of a function version.	Go debug
Configuring Asynchronous Execution Notification	hcloud FunctionGraph UpdateFunctionAsyncInvokeConfig	This API is used to configure asynchronous execution notification for a function.	Go debug
Deleting Asynchronous Execution Notification Settings	hcloud FunctionGraph DeleteFunctionAsyncInvokeConfig	This API is used to delete the asynchronous execution notification settings of a function.	Go debug
Querying Asynchronous Execution Notification Settings of a Function's All Versions	hcloud FunctionGraph ListFunctionAsyncInvokeConfig	This API is used to query the asynchronous execution notification settings of a function's all versions.	Go debug
Querying Asynchronous Invocation Requests	hcloud FunctionGraph ListAsyncInvocations	This API is used to query the asynchronous invocation requests of a function.	Go debug
Querying Active Asynchronous Invocation Requests	hcloud FunctionGraph ListActiveAsyncInvocations	This API is used to query active asynchronous invocation requests.	Go debug
Stopping an Asynchronous Invocation Request	hcloud FunctionGraph CancelAsyncInvocation	This API is used to stop asynchronous invocation of a function with N concurrent instances.	Go debug