FunctionGraph

CLI Command Reference

Issue 01

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1 Introduction to KooCLI

FunctionGraph provides the command line interface (CLI) for you to manage functions, triggers, and aliases, and invoke functions.

KooCLI Download Links

KooCLI can run on a 64-bit Linux x86 operating system (OS), 64-bit Windows OS, or macOS. **Table 1-1** provides the download links of KooCLI.

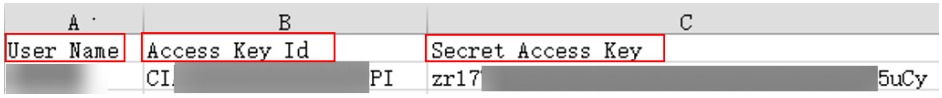
Table 1-1 Download links of CLI

OS	Software Package and Verification File	Reference
Linux	KooCLI and Verification File	KooCLI Overview
Windows		
macOS		

2 Installing KooCLI

1. Install KooCLI. For details, see **Installing KooCLI in Linux**.
2. Obtain an access key (access key ID and secret access key, also called "AK/SK").
   - If you have access to the console, log in to it, and create an access key on the **My Credentials** page. For details, see **Creating an Access Key**. An AK/SK file is downloaded. Generally, it is named **credentials.csv**. As shown in the following figure, the file contains a username, AK, and SK.

     Figure 2-1 Content of the credentials.csv file

   - If you do not have access to the console, request the administrator to create an access key for you on the IAM console in case your access key is lost or needs to be reset. For details, see **Managing Access Keys for an IAM User**.
3. Obtain a region name. For details, see **Regions and Endpoints**.

   Figure 2-2 Obtaining region information

Region Name	Region
AF-Johannesburg	af-south-1
AP-Bangkok	ap-southeast-2
AP-Singapore	ap-southeast-3

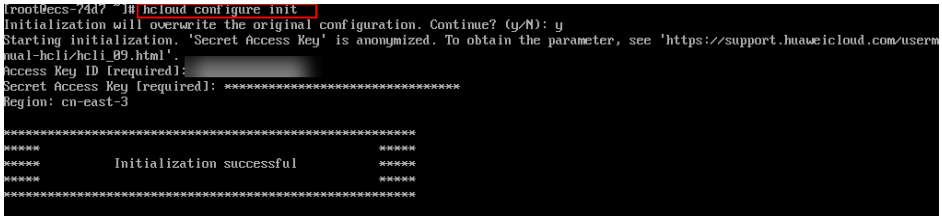
4. Initialize KooCLI.

   Run the following command to initialize KooCLI:

   ```
   hcloud configure init
   ```

   Enter an access key ID, secret access key, and region name. If the information shown in **Figure 2-3** is displayed, the initialization is successful.

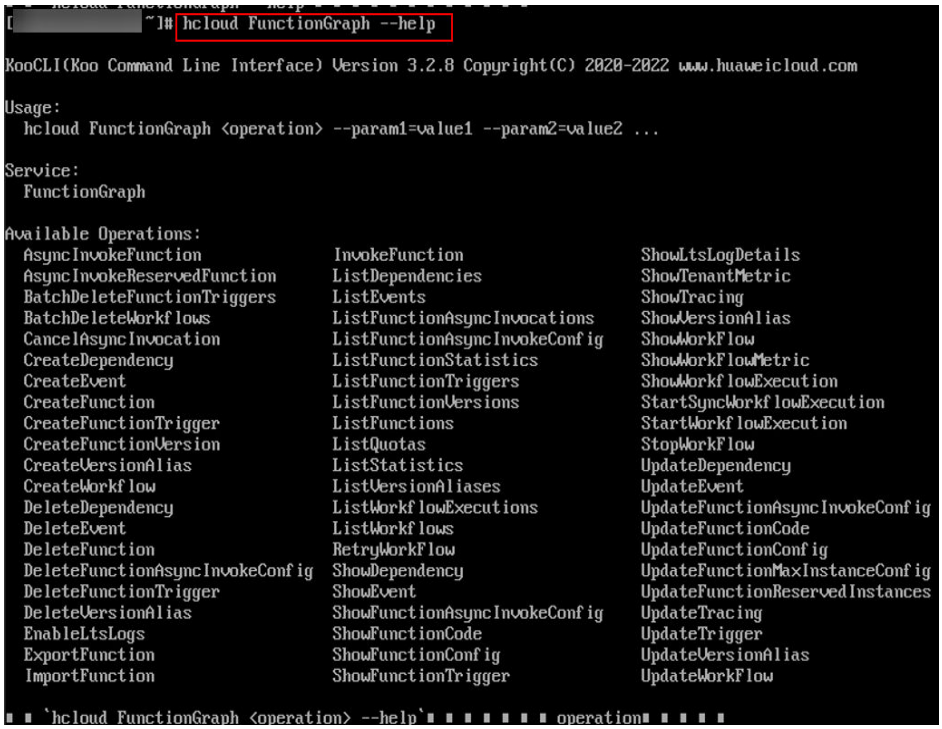
Figure 2-3 Initialization successful



5. Run the following command to view the commands supported by FunctionGraph. As shown in **Figure 2-4**, **Available Operations** lists the operations supported by FunctionGraph.

```
hcloud FunctionGraph --help
```

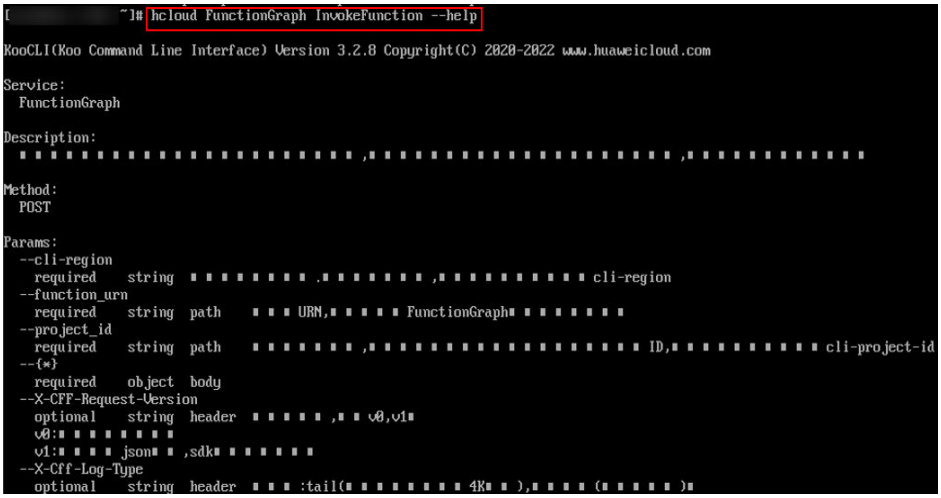
Figure 2-4 Operations supported by FunctionGraph



Run the following command to obtain help information about operation **InvokeFunction**. If the command is successfully executed, the information shown in **Figure 2-5** is displayed.

```
hcloud FunctionGraph InvokeFunction --help
```

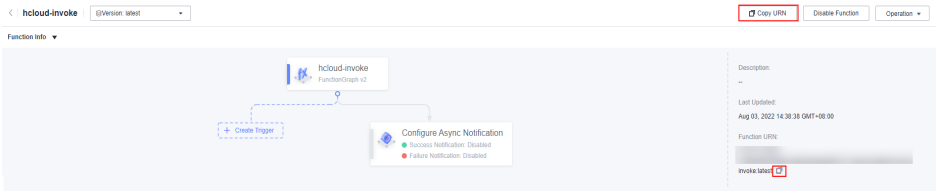

Figure 2-5 Help information about operation InvokeFunction



3 Invoking a Function

Before invoking a function, obtain the URN, as shown in **Figure 3-1**.

Figure 3-1 Obtaining a function URN



Synchronous Invocation

The following is an example command for synchronous invocation. For details about the parameters, see **Table 3-1**.

```
hcloud FunctionGraph InvokeFunction --cli-region="ap-southeast-1" --X-Cff-Log-Type="tail" --X-CFF-Request-Version="v1" --function_urn="urn:fss:cn-east-3:******:function:default:hcloud-invoke:latest" --project_id="******" --key="value"
```

Table 3-1 Parameter description

Parameter	Mandatory	Description
--cli-region	Yes	Region where the target function is located.
--function_urn	Yes	Function URN.
--project_id	Yes	Project ID.
--X-Cff-Log-Type	No	Options: **tail** (4 KB logs will be returned in the header) and **null** (no logs will be returned).

Parameter	Mandatory	Description
X-CFF-Request-Version	No	Response body format. Options: • **v0**: text format. • **v1**: JSON format. Use this format when using an SDK.
Body	Yes	Request body in **--key="value"** format. The JSON structure is **{"key":"value"}**.

Figure 3-2 shows the output result. For details about the response parameters, see **Table 3-2**.

Figure 3-2 Output result

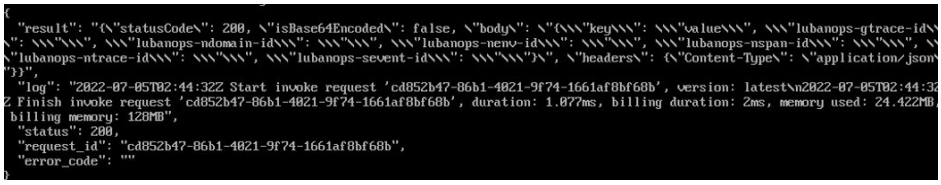


Table 3-2 Response parameters

Parameter	Type	Description
request_id	String	Request ID.
result	String	Execution result.
log	String	Execution log.
status	Integer	Execution status.
error_code	String	Error code.

Asynchronous Invocation

The following is an example command for asynchronous invocation. For details about the parameters, see **Table 3-3**.

```
hcloud FunctionGraph AsyncInvokeFunction --cli-region="cn-east-3" --function_urn="urn:fss:cn-east-3:******:function:default:hcloud-invoke:latest" --project_id="******" --key="value"
```


Table 3-3 Parameter description

Parameter	Mandatory	Description
--cli-region	Yes	Region where the target function is located.
--function_urn	Yes	Function URN.
--project_id	Yes	Project ID.
Body	Yes	Request body in **--key="value"** format. The JSON structure is **{ "key":"value"}**.

Figure 3-3 shows the output result. For details about the response parameters, see **Table 3-2**.

Figure 3-3 Output result

```
{
  "request_id": "3977431d-c254-4e65-979e-30541936651b"
}
```

Table 3-4 Response parameters

Parameter	Type	Description
request_id	String	Request ID.

