IMS CLI Reference

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HUAWEI

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1 Using KooCLI

Huawei Cloud Koo Command Line Interface (previously "HCloud CLI") is designed to manage Huawei Cloud service APIs released on **API Explorer**. You can use this tool to call the APIs of Image Management Service (IMS) in API Explorer to manage and use your IMS resources. For details about KooCLI, see **What Is KooCLI?**

Installing KooCLI

Before you begin, you will need to install KooCLI. KooCLI is compatible with Windows, Linux, and macOS. Install the tool of the corresponding version based on the OS used by your machine.

- **Installing KooCLI in Windows**
- **Installing KooCLI in Linux**
- **Installing KooCLI in macOS**
- **Configuring and Using KooCLI in Docker**

Initializing KooCLI

When you use KooCLI to call APIs, your identity information is required for authentication. During KooCLI initialization, you can store your permanent AK/SK in the configuration file, so you do not need to enter the credentials each time you call an API.

Skip this step if you intend to pass authentication information directly in commands instead of using the configuration file. For details, see **Using KooCLI in Non-configuration Mode**.

The following uses Windows as an example to describe how to initialize KooCLI. The steps 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 command 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 command generation methods:

- 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 API operations and related parameters, and then manually combine CLI commands to call APIs. For details, see **Step 4: View and Run Cloud Service Operation Commands**.

The following uses the "Creating a Data Disk Image from an External Image File" API of IMS 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 IMS, select the API for which you want to generate a CLI command.
2. In the parameter configuration interface in the middle, enter the parameters required to call 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 "Creating a Data Disk Image from an External Image File" API.

   ```
   hcloud IMS CreateDataImage --cli-region="cn-north-4" --image_url="image-test:image-0020.zvhd2" --min_disk=40 --name="image-test-01"
   ```

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 "Creating a Data Disk Image from an External Image File" API.

   ```
   {
    "job_id": "ff8080819f8ebbaf01a042f1bebf2447"
   }
   ```


2 CLI Command Reference

Image Jobs

API Name	Command	Description	Operation
Querying the Progress of an Asynchronous Job	hcloud IMS ShowJobProgress	This is an extended API. It is used to query the progress of an asynchronous job.	**Debug**

Images

API Name	Command	Description	Operation
Exporting an Image	hcloud IMS ExportImage	This is an extended API. It is used to export a private image to an OBS bucket.	**Debug**
Exporting an Image (New)	hcloud IMS ExportImageInSafeMode	This is an extended API. It is used to export a private image to an OBS bucket.	**Debug**
Querying Images	hcloud IMS ListImages	This API is used to query images using search criteria.	**Debug**
Updating an Image	hcloud IMS UpdateImage	This API is used to update image information. Only **active** images can be updated.	**Debug**

API Name	Command	Description	Operation
Creating a Data Disk Image Using an External Image File	hcloud IMS CreateDataImage	This API is used to create a data disk image from a data disk image file uploaded to an OBS bucket. This is an asynchronous API. A successful call only means the backend has received the request. To see if an image is created successfully, you need to use the asynchronous job query API to query the image creation status. For details, see **Querying the Progress of an Asynchronous Job**.	**Debug**
Creating a Data Disk Image from an External Image File (New)	hcloud IMS CreateDataImageInSafeMode	This API is used to create a data disk image from a data disk image file uploaded to an OBS bucket. This is an asynchronous API. A successful call only means the backend has received the request. To see if an image is created successfully, you need to use the asynchronous job query API to query the image creation status. For details, see **Querying the Progress of an Asynchronous Job**.	**Debug**

API Name	Command	Description	Operation
Creating an Image	hcloud IMS CreateImage	This API is used to create a private image. You can: • Create a private image (system or data disk image) from a cloud server. • Create a system disk image from an external image file uploaded to an OBS bucket. • Create a system disk image from a data disk.	**Debug**
Creating an Image (New)	hcloud IMS CreateImageInSafeMode	This API is used to create a private image. You can: • Create a private image (system or data disk image) from a cloud server. • Create a system disk image from an external image file uploaded to an OBS bucket. • Create a system disk image from a data disk.	**Debug**
Registering an Image	hcloud IMS RegisterImage	This API is used to register an image file as an uninitialized private image on the cloud platform.	**Debug**

API Name	Command	Description	Operation
Importing an Image File Quickly	hcloud IMS ImportImageQuick	This API is used to quickly create a private image from an oversized external image file that has been uploaded to an OBS bucket. Currently, only ZVHD2 and RAW image files can be imported quickly, and the size of such an image file cannot exceed 1 TB.	**Debug**
Importing an Image File Quickly (New)	hcloud IMS ImportImageQuickInSafeMode	This API is used to quickly create a private image from an oversized external image file that has been uploaded to an OBS bucket. Currently, only ZVHD2 and RAW image files can be imported quickly, and the size of such an image file cannot exceed 1 TB.	**Debug**
Creating a Full-ECS Image	hcloud IMS CreateWholeImage	This API is used to create a full-ECS image from an ECS or a Cloud Server Backup Service (CSBS) backup. This is an asynchronous API. A successful call only means the backend has received the request. To see if an image is created successfully, you need to use the asynchronous job query API to query the image creation status. For details, see **Querying the Progress of an Asynchronous Job**.	**Debug**

API Name	Command	Description	Operation
Querying Supported Image OSs	hcloud IMS ListOsVersions	This API is used to query compatible ECS OSs in the current region.	Debug

Image Sharing

API Name	Command	Description	Operation
Adding Image Recipients	hcloud IMS BatchAddMembers	This is an extended API. It is used to share more than one image with multiple users.	Debug
Updating the Image Sharing Status of a Recipient	hcloud IMS BatchUpdateMembers	This is an extended API used to batch accept or reject images shared with a user.	Debug
Deleting Image Recipients	hcloud IMS BatchDeleteMembers	This is an extended API. It is used to stop sharing images.	Debug
Querying Details About an Image Recipient	hcloud IMS ShowImageMember	This API is used to query details about an image recipient.	Debug
Querying Image Recipients	hcloud IMS ListImageMembers	This API is used to query image recipients.	Debug

Image Replication

API Name	Command	Description	Operation
Replicating an Image Within a Region	hcloud IMS CopyImageInRegion	This is an extended API. It is used to replicate an image. When replicating an image, you can change the image attributes to meet the requirements of different scenarios.	Debug

API Name	Command	Description	Operation
Replicating an Image Within a Region (New)	hcloud IMS CopyImageInRegionInSafeMode	This is an extended API. It is used to replicate an image. When replicating an image, you can change the image attributes to meet the requirements of different scenarios.	Debug
Replicating an Image Across Regions	hcloud IMS CopyImageCrossRegion	This is an extended API. It is used to replicate a private image from one region to another. In the destination region, the replicated image can be used to create cloud servers identical to those in the source region. This allows you to migrate services between regions.	Debug

Image Tagging

API Name	Command	Description	Operation
Querying Tags	hcloud IMS ListTags	This API is used to query image tags using search criteria.	Debug
Adding or Modifying a Tag	hcloud IMS CreateOrUpdateTags	This API is used to add or modify a custom tag for an image. You can classify images by custom tag.	Debug
Querying Images by Tag	hcloud IMS ListImageByTags	This API is used to filter or count images using tags or other conditions.	Debug
Querying All Image Tags	hcloud IMS ListImagesTags	This API is used to query all image tags of a tenant.	Debug

API Name	Command	Description	Operation
Querying Tags of an Image	hcloud IMS ListImageTags	This API is used to query all tags of a specified image.	Debug
Adding an Image Tag	hcloud IMS AddImageTag	This API is used to add or update a single tag for a specified image.	Debug
Adding or Deleting Image Tags in a Batch	hcloud IMS BatchAddOrDeleteTags	This API is used to add tags to, update tags of, or delete tags from an image in a batch.	Debug
Deleting an Image Tag	hcloud IMS DeleteImageTag	This API is used to delete a specified tag from an image.	Debug
Deleting Image Tags	hcloud IMS BatchDeleteTags	This API is used to batch delete tags from a specified image.	Debug

Image Quotas

API Name	Command	Description	Operation
Querying Image Quotas	hcloud IMS ShowImageQuota	This is an extended API. It is used to query private image quotas of a tenant in the current region.	Debug

Image Sharing (Native OpenStack APIs)

API Name	Command	Description	Operation
Querying Image Recipients (Native OpenStack API)	hcloud IMS GlanceListImage-Members	This API is used to query image recipients.	Debug
Adding an Image Recipient (Native OpenStack API)	hcloud IMS GlanceAddImage Member	This API is used to add the project ID of a tenant that an image is to be shared with.	Debug

API Name	Command	Description	Operation
Querying Details About an Image Recipient (Native OpenStack API)	hcloud IMS GlanceShowImageMember	This API is used to query details about an image recipient.	Debug
Updating the Image Sharing Status of a Recipient (Native OpenStack API)	hcloud IMS GlanceUpdateImageMember	This is an extended API. It is used to batch accept or reject images shared with a user.	Debug
Deleting an Image Recipient (Native OpenStack API)	hcloud IMS GlanceDeleteImageMember	This API is used to stop image sharing with a user.	Debug

Image Tagging (Native OpenStack APIs)

API Name	Command	Description	Operation
Adding a Tag (Native OpenStack API)	hcloud IMS GlanceCreateTag	This API is used to add a custom tag to an image. You can classify images by custom tag.	Debug
Deleting a Tag (Native OpenStack API)	hcloud IMS GlanceDeleteTag	This API is used to delete a custom tag from a private image.	Debug

Image Schemas (Native OpenStack APIs)

API Name	Command	Description	Operation
Querying an Image Schema (Native OpenStack API)	hcloud IMS GlanceShowImageSchemas	This API is used to query the image schema, which allows you to view image attributes and their data types.	Debug
Querying the Image Recipient List Schema (Native OpenStack API)	hcloud IMS GlanceListImageMemberSchemas	This API is used to query the image recipient list schema, which allows you to view image recipient attributes and their data types.	Debug

API Name	Command	Description	Operation
Querying the Image List Schema (Native OpenStack API)	hcloud IMS GlanceListImage-Schemas	This API is used to query the image list schema, which allows you to view detailed information and the data structure of an image list.	Debug
Querying the Image Recipient Schema (Native OpenStack API)	hcloud IMS GlanceShowImageMemberSchemas	This API is used to query the image recipient schema, which allows you to view image recipient attributes and their data types.	Debug

Images (Native OpenStack APIs)

API Name	Command	Description	Operation
Querying Images (Native OpenStack API)	hcloud IMS GlanceListImages	This API is used to obtain the image list.	Debug
Creating Image Metadata (Native OpenStack API)	hcloud IMS GlanceCreateIma-geMetadata	This API is used to create image metadata. After this API is called, only image metadata is created, and no actual image file is generated.	Debug
Querying Image Details (Native OpenStack API)	hcloud IMS GlanceShowImage	This API is used to query details about a public or private image.	Debug
Deleting an Image (Native OpenStack API)	hcloud IMS GlanceDeleteImage	This API is used to delete a private image. You can only delete your own private images.	Debug
Updating an Image (Native OpenStack API)	hcloud IMS GlanceUpdateImage	This API is used to modify image information.	Debug

API Version Query (Native OpenStack APIs)

API Name	Command	Description	Operation
Querying API Versions (Native OpenStack API)	hcloud IMS ListVersions	This API is used to query API versions, such as version compatibility and domain name information of APIs.	Debug
Querying an API Version (Native OpenStack API)	hcloud IMS ShowVersion	This API is used to query a specified API version, such as version compatibility and domain name information of an API.	Debug

