

Data Admin Service

CLI Reference

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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 Data Admin Service (DAS) in API Explorer to manage and use your DAS 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 KooCLI is used to call APIs, you need to obtain the caller's identity information for authentication. If you initialize KooCLI, your permanent AK/SK is stored 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 DAS API for registering a database user 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 DAS, 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 API for registering a database user.

```
hcloud DAS RegisterDbUser --cli-region="cn-north-1" --  
instance_id="da304cd5bbb944de828759bc7be3d3fein01" --datastore_type="mysql" --  
db_username="root" --db_user_password="password"
```

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 registering a database user.

```
{  
  "db_user_id" : "2e407f6b-8c09-494a-a62f-31b01439596f"  
}
```

2 CLI Command Reference

API Version Queries

API Name	Command	Description	Operation
Querying API Versions	hcloud DAS ListApiVersions	This API is used to query API versions.	Go debug
Querying a Specified API Version	hcloud DAS ShowApiVersion	This API is used to query a specified API version.	Go debug

Intelligent O&M

API Name	Command	Description	Operation
Querying a SQL Execution Plan	hcloud DAS ShowSqlExecutionPlan	This API is used to query a SQL execution plan.	Go debug
Querying a SQL Execution Plan	hcloud DAS ShowSqlExplain	This API is used to query a SQL execution plan.	Go debug
Killing Sessions	hcloud DAS DeleteProcess	This API is used to kill sessions by user, database, or session ID.	Go debug
Querying Metadata Locks	hcloud DAS ListMetadataLocks	This API is used to query metadata locks.	Go debug
Querying InnoDB Lock Waits	hcloud DAS ListInnodbLocks	This API is used to query InnoDB lock waits.	Go debug

API Name	Command	Description	Operation
Querying Database Users	hcloud DAS ListDbUsers	This API is used to query database users registered on DAS. db_user_id returned by this API is required for calling other APIs (such as the API for querying instance sessions). This API does not return database user objects of an instance.	Go debug
Registering a Database User	hcloud DAS RegisterDbUser	This API is used to register the database username and password with the DAS system. A database user ID will be returned in response and is required for calling other APIs, such as the API for querying instance sessions. The database password is encrypted and used for DAS API calls only. This API does not create database user objects on an instance. Ensure that the username and password you entered are valid and correct.	Go debug
Querying Instance Sessions	hcloud DAS ListProcesses	This API is used to query instance sessions by database or user.	Go debug
Querying a Specified Database User	hcloud DAS ShowDbUser	This API is used to query information of a specified database user. It does not query database user objects on an instance.	Go debug

API Name	Command	Description	Operation
Modifying a Database User	hcloud DAS UpdateDbUser	This API is used to change the username and password for a registered database user. This API does not change the user name and password of database user objects on an instance. Ensure that the username and password you entered are valid and correct.	Go debug
Deleting a Database User	hcloud DAS DeleteDbUser	This API is used to delete a registered database user. Only registered database users are deleted from the DAS system. Database user objects are not affected.	Go debug

API Name	Command	Description	Operation
Obtain the Space Analysis Data List	hcloud DAS ListSpaceAnalysis	This API is used to obtain the space analysis data list. The file system generated instance-level data, and the information_schema.tables table generates database-level and table-level data. Space & Metadata Analysis allows you to analyze a maximum of 10,000 tables. If tablespace data is missing, there may be too many instance tables, or the account password has not been saved. If the account password has not been saved, use the user management interface or page to save the database account. MySQL, GaussDB(for MySQL) and SQLServer are supported.	Go debug
Creating a Space Analysis Task	hcloud DAS CreateSpaceAnalysisTask	This API is used to create a space analysis task, for example, triggering re-analysis. MySQL and GaussDB(for MySQL) are supported.	Go debug

API Name	Command	Description	Operation
Enabling/ Disabling SQL Explorer and Slow Query Log	hcloud DAS ChangeSqlSwitch	This API is used to enable or disable SQL Explorer. After this function is enabled, the instance performance loss is within 5%. Enabling SQL Explorer will allow DAS to store all SQL statement logs for analysis. You can set the retention period of SQL explorer data. After the retention period expires, the data is automatically deleted. If not specified, the data is retained for seven days.	Go debug
Querying Whether SQL Explorer and Slow Query Log Are Enabled	hcloud DAS ShowSqlSwitchSta tus	This API is used to query whether SQL Explorer and Slow Query Log are enabled. Only paid instances are supported.	Go debug
Exporting Slow Query Logs	hcloud DAS ExportSlowQuery- Logs	After Slow Query Log is enabled, you can export the slow query logs within a specified period at a time. The data can be obtained by page. Free instance only supports viewing data within the last hour.	Go debug
Exporting All SQL Statements	hcloud DAS ExportSqlStateme nts	After SQL Explorer is enabled, you can export the SQL explorer data within a specified period at a time. The data can be obtained by page. Only paid instances are supported.	Go debug

API Name	Command	Description	Operation
Export Full SQL Details	hcloud DAS ExportFullSqlDetails	After SQL Explorer is enabled, you can create an SQL insight task and export full SQL details by node, user name, database, or operation type. This function supports only paid instances.	Go debug
Querying the SQL Insight Task List	hcloud DAS ListFullSqlTasks	After SQL Explorer is enabled, you can query the SQL insight task list. Only paid instances are supported.	Go debug
Querying Intelligent O&M Quotas	hcloud DAS ShowQuotas	This API is used to query Intelligent O&M quotas.	Go debug
Querying Whether SQL Statement Concurrency Control Is Enabled	hcloud DAS ShowSqlLimitSwitchStatus	This API is used to query whether SQL statement concurrency control is enabled. Only MySQL instances are supported.	Go debug
Configuring SQL Statement Concurrency Control	hcloud DAS ChangeSqlLimitSwitchStatus	This API is used to configure SQL Statement Concurrency Control. Only MySQL databases are supported.	Go debug
Querying Concurrency Control Rules of SQL Statements	hcloud DAS ListSqlLimitRules	This API is used to query concurrency control rules of SQL statements. Only MySQL and PostgreSQL databases are supported.	Go debug
Creating a Concurrency Control Rule of SQL Statements	hcloud DAS CreateSqlLimitRules	This API is used to add a concurrency control rule of SQL statements. Only MySQL and PostgreSQL databases are supported.	Go debug

API Name	Command	Description	Operation
Deleting a Concurrency Control Rule of SQL Statements	hcloud DAS DeleteSqlLimitRules	This API is used to delete a concurrency control rule of SQL statements. Only MySQL and PostgreSQL databases are supported currently.	Go debug
Updating a Concurrency Control Rule of SQL Statements	hcloud DAS UpdateSqlLimitRules	Deleting a Concurrency Control Rule of SQL Statements. Only PostgreSQL databases are supported.	Go debug
Exporting Top SQL Statement Templates	hcloud DAS ExportTopSqlTemplatesDetails	After TopSQL is enabled, the top SQL template list is exported. Only paid instances are supported. The maximum query interval is one hour.	Go debug
Querying a SQL Statement Concurrency Control Task	hcloud DAS ShowSqlLimitJobInfo	This API is used to query information about the SQL statement concurrency control task with a specified ID.	Go debug
Exporting Slow SQL Statement Templates	hcloud DAS ExportSlowSqlTemplatesDetails	After this function is enabled, the slow SQL template list is exported. Free instance only supports viewing data within the last hour. The maximum query interval is one day.	Go debug
Exporting SQL Statement Execution Duration Ranges	hcloud DAS ExportTopSqlTrendDetails	After this function is enabled, execution durations of a SQL statement are exported. Only paid instances are supported. The maximum query interval is six hours.	Go debug

API Name	Command	Description	Operation
Executing a SQL Diagnosis	hcloud DAS CreateTuning	Executing a SQL diagnosis.	Go debug
Obtaining Diagnosis Results	hcloud DAS ShowTuning	This API is used to obtain diagnosis results.	Go debug
Exporting Slow SQL Statistics	hcloud DAS ExportSlowSqlStatistics	After this function is enabled, the slow SQL statistics list is exported.	Go debug
Querying the historical transaction switch	hcloud DAS ShowTransactionSwitchStatus	Querying the historical transaction switch.	Go debug
Enabling or Disabling the Historical Transaction Switch	hcloud DAS ChangeTransactionSwitchStatus	Enables or disables the historical transaction function. Only the MySQL engine is supported, and the full SQL or slow SQL function must be enabled.	Go debug
Querying the Historical Transaction List	hcloud DAS ListTransactions	Querying the Historical Transaction List.	Go debug
Create an export history transaction task	hcloud DAS CreateHistoryTransactionExportTask	After the DAS historical transaction collection switch is turned on, it supports the creation of a one-time export task for historical transaction data within a specified time range.	Go debug
Delete the obs file corresponding to the export historical transaction task	hcloud DAS DeleteHistoryTransactionExportTask	After the historical transaction collection switch is turned on, delete the OBS file corresponding to the historical transaction export task record.	Go debug

API Name	Command	Description	Operation
Query the historical transaction export task list	hcloud DAS ListHistoryTransactionExportTask	After the DAS historical transaction collection switch is turned on, the historical transaction export task list is queried.	Go debug
Query the details of the historical transaction export task	hcloud DAS ShowHistoryTransactionExportTaskInfo	After the DAS historical transaction collection switch is turned on, the details of the historical transaction export task are queried.	Go debug
Generate SQL Throttling Keywords based on Original SQL	hcloud DAS ParseSqlLimitRules	Generate SQL Throttling Keywords based on Original SQL. MySQL, MariaDB, and GaussDB(for MySQL) are supported.	Go debug
Exporting Slow SQL Trend	hcloud DAS ExportSlowSqlTrendDetails	After this function is enabled, the slow SQL trend list is exported. Free instance only supports viewing data within the last hour. The maximum query interval is one day.	Go debug
Exporting the list of risk instances	hcloud DAS ExportTopRiskInstances	Exporting the list of risk instances. The maximum query interval is one day.	Go debug
View the instance list on the Intelligent O&M page.	hcloud DAS ListCloudDbInstances	View the instance list on the Intelligent O&M page.	Go debug
Creating an Instance Diagnosis Task	hcloud DAS CreateHealthReportTask	This API is used to create an instance diagnosis task.	Go debug
Querying Instance Diagnosis Reports	hcloud DAS ListHealthReportTask	Querying Instance Diagnosis Reports	Go debug

API Name	Command	Description	Operation
Obtaining an Instance Diagnosis Report	hcloud DAS ShowInstanceHealthReport	Obtaining an Instance Diagnosis Report	Go debug
Synchronize instance list	hcloud DAS SynchronizeInstances	Synchronize instance list.	Go debug
Querying Instance Distribution	hcloud DAS ListInstanceDistribution	Querying Instance Distribution	Go debug
Querying the List of Top Slow SQL Statements	hcloud DAS ListTopSlowLog	Querying the List of Top Slow SQL Statements	Go debug
Querying the List of Top Slow SQL Statements of an Instance	hcloud DAS ListInstanceTopSlowLog	Querying the List of Top Slow SQL Statements of an Instance	Go debug
Indicator information supported by a single indicator on multiple nodes	hcloud DAS ShowMetricNamesSupport	Indicator information supported by a single indicator on multiple nodes	Go debug
Obtaining the Node Information of a Single Instance	hcloud DAS ListInstanceNodeInfo	Obtaining the Node Information of a Single Instance	Go debug
Obtaining Data of a Single Indicator on Multiple Nodes	hcloud DAS ListInstanceMultiNodesSingleMetric	Obtaining Data of a Single Indicator on Multiple Nodes	Go debug
Querying Resource Risk Instance Risk Items	hcloud DAS ListRiskItems	Querying Resource Risk Instance Risk Items	Go debug
Querying Resource Risk Instance Risk Trends	hcloud DAS ListRiskTrend	Querying Resource Risk Instance Risk Trends	Go debug
set metric threshold	hcloud DAS SetThresholdForMetric	set metric threshold	Go debug
Setting the payment mode	hcloud DAS ChangeChargeMode	Setting the payment mode	Go debug

API Name	Command	Description	Operation
Setting the payment mode	hcloud DAS ChangePaymentModeNew	Setting the payment mode	Go debug
Creating a Full SQL Detail Parsing Task	hcloud DAS AddFullSqlTask	Creating a Full SQL Detail Parsing Task	Go debug
Configure full deadlock detection switch	hcloud DAS ChangeFullDeadLockSwitch	Enable or disable comprehensive deadlock monitoring	Go debug
Get Full Deadlock Switch Status	hcloud DAS ShowFullDeadLockSwitch	Retrieves the status of the full deadlock detection switch	Go debug
Retrieve complete deadlock information	hcloud DAS ShowFullDeadLockList	Get comprehensive deadlock records	Go debug
Get deadlock snapshot details	hcloud DAS ShowLatestDeadLockSnapshot	Retrieve detailed information about a deadlock snapshot	Go debug
List snapshots	hcloud DAS ListSnapshots	Query snapshot list	Go debug
Create snapshot	hcloud DAS CreateSnapshots	Create a snapshot	Go debug
Check AK/SK	hcloud DAS CheckCredential	Check AK/SK to verify whether the user's AK/SK can access the OBS bucket normally.	Go debug
Save AK/SK	hcloud DAS SaveCredential	Save AK/SK for backend tasks to access OBS and upload instance diagnostic reports.	Go debug
Querying Instance Diagnostic Report Settings	hcloud DAS ShowHealthReportSettings	Querying Instance Diagnostic Report Settings	Go debug
Update Instance Diagnostics Report Settings	hcloud DAS UpdateHealthReportSettings	Update Instance Diagnostics Report Settings	Go debug
built in account login	hcloud DAS LoginBuiltInAccount	built in account login	Go debug

API Name	Command	Description	Operation
built in account logoff	hcloud DAS LogoffBuiltInAccount	built in account logoff	Go debug
Automatically Recommend SQL Throttling Rules	hcloud DAS ShowDasRecommendSqlLimitRule	Automatically recommends SQL throttling rules based on conditions (including average execution time, count, maximum execution time, or a combination of the three criteria)	Go debug
Query auto-increment quota	hcloud DAS ListAutoIncrementUsage	Query auto-increment quota usage	Go debug
Querying Inspection Report List	hcloud DAS ListInspectionReport	Querying Inspection Report List	Go debug
Querying Email Records	hcloud DAS ListEmailRecord	Querying Email Records	Go debug
Querying Email Template List	hcloud DAS ListEmailTemplate	Querying Email Template List	Go debug
Creating an Email Template	hcloud DAS AddEmailTemplate	Creating an Email Template	Go debug
Modifying an Email Template	hcloud DAS UpdateEmailTemplate	Modifying an Email Template	Go debug
Deleting an Email Template	hcloud DAS DeleteEmailTemplate	Deleting an Email Template	Go debug
Batch Subscribe/Unsubscribe	hcloud DAS BatchSubscribeReport	Batch Subscribe/Unsubscribe	Go debug
Querying Instance Group List	hcloud DAS ListInstanceGroup	Querying Instance Group List	Go debug
Creating an Instance Group	hcloud DAS AddInstanceGroup	Creating an Instance Group	Go debug
Modifying an Instance Group	hcloud DAS UpdateInstanceGroup	Modifying an Instance Group	Go debug

API Name	Command	Description	Operation
Deleting an Instance Group	hcloud DAS DeleteInstanceGroup	Deleting an Instance Group	Go debug
Adding instances to the instance group	hcloud DAS AddInstanceToGroup	Adding instances to the instance group	Go debug
Sending emails in batches	hcloud DAS BatchSendEmail	Sending emails in batches	Go debug
Check AK/SK	hcloud DAS CheckCredentialForBatchInspection	Check AK/SK to verify whether the user's AK/SK can access the OBS bucket normally.	Go debug
Save AK/SK	hcloud DAS SaveCredentialForBatchInspection	Save AK/SK for backend tasks to access OBS and upload instance diagnostic reports.	Go debug
Querying AK/SK	hcloud DAS ShowCredential	Querying AK/SK, used to determine whether AK/SK has been saved.	Go debug
Query the lock blocking database list	hcloud DAS ListLockBlockingDatabase	Query the lock blocking database list.	Go debug
Query the lock blocking details list	hcloud DAS ListLockBlockingDetail	Query the lock blocking details list.	Go debug
Query the lock blocking relationship	hcloud DAS ListLockBlockingRelationship	Query the lock blocking relationship.	Go debug
Query the lock blocking statistics	hcloud DAS ShowLockBlockingStatistics	Query the lock blocking statistics.	Go debug
Query the lock blocking trend list	hcloud DAS ShowLockBlockingTrend	Query the lock blocking trend list.	Go debug
Query the lock blocking switch and retention hours	hcloud DAS ShowLockBlockingSwitch	Query the lock blocking switch and retention hours.	Go debug

API Name	Command	Description	Operation
Set the lock blocking switch and retention hours.	hcloud DAS SetLockBlockingSwitch	Set the lock blocking switch and retention hours. Only SQL Server DB instances are supported.	Go debug
Start Session Analysis	hcloud DAS StartAnalysisSession	Start session analysis	Go debug
Query Session Analysis Status	hcloud DAS ShowAnalysisSessionStatus	Query session analysis status	Go debug
Query Session Analysis Results	hcloud DAS ShowAnalysisSessionResult	Query session analysis results	Go debug
Get deadlock topology data	hcloud DAS ShowDeadLockTopology	Get deadlock topology data	Go debug
Analyze deadlock log	hcloud DAS ParseDeadLock	Analyze deadlock log	Go debug
Query deadlock log analysis result	hcloud DAS ShowDeadLockAnalysisResult	Query deadlock log analysis result	Go debug
Cancel shared connections	hcloud DAS CancelShareNew	Cancel shared connections	Go debug
Batch delete connections	hcloud DAS BatchDeleteConnectionNew	Batch delete connections	Go debug
Show latest instance health report info	hcloud DAS ShowLatestInstanceHealthReport	Show latest instance health report info	Go debug
Add sql limiting record	hcloud DAS AddSqlLimitingRecordNew	Add sql limiting record	Go debug
Show export full sql task info	hcloud DAS ShowExportTaskInfo	Show export full sql task info	Go debug
Determine whether this instance can use the cloud DBA function	hcloud DAS ShowWhetherUseCloudDb	Determine whether this instance can use the cloud DBA function	Go debug

API Name	Command	Description	Operation
Open quota inquiry	hcloud DAS ShowDasCloudDb aPrice	Open quota inquiry	Go debug
Query the status of the get-search-path switch	hcloud DAS ShowClouddbGet SearchPathFlagNew	Query the status of the get-search-path switch	Go debug
Query the status of the deadlock switch	hcloud DAS ShowDeadLockSwitchNew	Query the status of the deadlock switch	Go debug
Query the supported engine types	hcloud DAS ShowSupportedEngines	Query the supported engine types	Go debug
Turn on/off the full SQL switch	hcloud DAS SwitchFullsqlSwitch	Turn on/off the full SQL switch	Go debug
Obtain the full deadlock switch	hcloud DAS ShowFullDeadLockSwitchNew	Obtain the full deadlock switch	Go debug
Obtain product-level security protocols	hcloud DAS ShowGlobalPrivacyNew	Obtain product-level security protocols	Go debug
Query the history-transaction switch	hcloud DAS ShowHistoryTransactionSwitchNew	Query the history-transaction switch	Go debug
Query the long-history-transaction switch	hcloud DAS ShowLongHistoryTransactionSwitchNew	Query the long-history-transaction switch	Go debug
Query the index-usage switch	hcloud DAS ShowIndexUsageSwitchNew	Query the index-usage switch	Go debug
Query the slow-log switch	hcloud DAS ShowSlowLogSwitchNew	Query the slow-log switch	Go debug
Query the sql-limiting switch	hcloud DAS ShowSqlLimitingSwitchNew	Query the sql-limiting switch	Go debug
List database names	hcloud DAS ListDbNames	List database names	Go debug

API Name	Command	Description	Operation
List database names	hcloud DAS ShowNameList	List database names	Go debug
Query the kill process task switch	hcloud DAS ShowKillProcessTaskSwitch	Query the kill process task switch	Go debug

Development Tool

API Name	Command	Description	Operation
Setting a Sharing Link	hcloud DAS CreateShareConnections	Setting a sharing link.	Go debug
Deleting a Sharing Link	hcloud DAS CancelShareConnections	Deleting a sharing link.	Go debug
Creating an Instance Connection	hcloud DAS CreateInstanceConnection	This API is used to create an instance connection.	Go debug
Querying the Instance Connection List	hcloud DAS ListConnections	This API is used to querying the instance connection list.	Go debug
Executing an Export Task Immediately	hcloud DAS ExecuteExportTask	Executing an export task immediately.	Go debug
Executing an Import Task Immediately	hcloud DAS ExecuteImportTask	Executing an import task immediately.	Go debug