

Batch Compute

Console User Guide

Product Documentation



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Task Template Management

Last updated : 2024-01-13 11:19:29

Creating Task Template

For more information on task template, please see "Task Template" in [Glossary](#). You can create a task template in the [BatchCompute Console](#) in the following steps:

1. Log in to the [BatchCompute Console](#). If you haven't activated the BatchCompute service, activate it as prompted on the BatchCompute Console page.
2. Select **Task Template** on the left sidebar and select the target region at the top of the page.
3. Click **Create** to enter the "Create Task Template" page and create a template as shown below:

Basic info

Name

Description

Resource configuration [CVM Detailed Configuration](#)
System disk (50 GB)Bandwidth (No public network bandwidth), password (system-generated)

Resource quantity units

Timeout ⓘ s

Number of retries ⓘ

Image

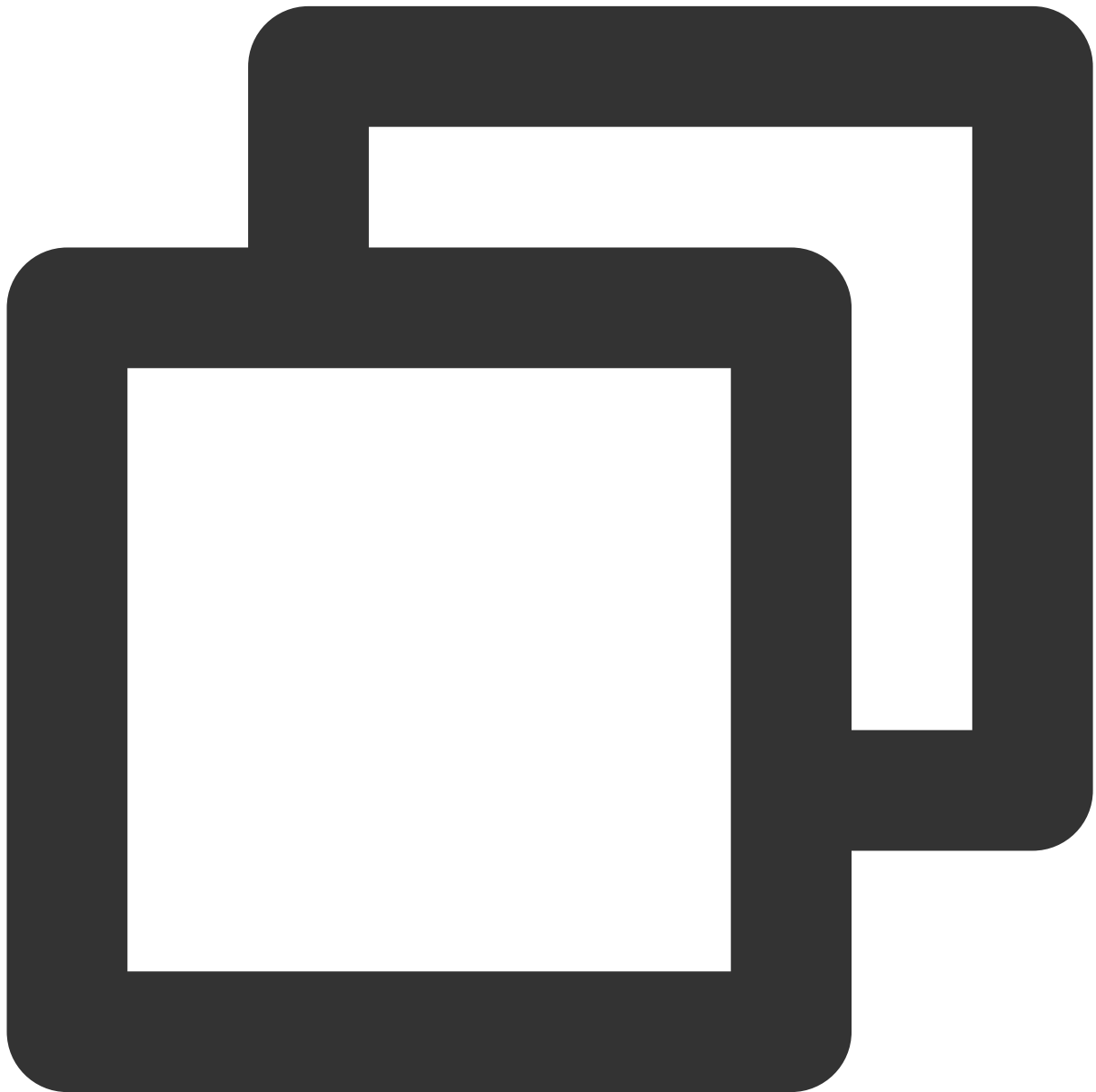
[Next](#)

Main parameters include:

Compute Environment Type:

Existing Compute Environment: you can select an existing compute environment.

Automatic Compute Environment: you don't need to pre-create a fixed compute environment. After a job is submitted, a CVM instance will be created automatically to run the task and terminated automatically after task completion.



Resource Configuration: you can click **Detailed CVM Configuration** for further

Number of Resources: this determines the number of resources for concurrent task execution. For more information, please see "Task Instance" in [Glossary](#).

Image: for more information, please see "Image" in [Glossary](#).

4. Click **Next** to set the program configuration information as shown below:

Program configuration

Execution method

Package address [Check](#)

Stdout log [Check](#)

Stderr log [Check](#)

Command line

Execution Method: if "Package" is selected, "Package Address" is required, which is stored in [COS](#).

Package Address/Stdout Log/Stderr Log: they should be in a fixed format. For more information, please see [How to Enter COS and CFS Paths](#).

5. Click **Next** to set the storage mapping as shown below:

Input path mapping

Copy the data you want to process from COS/CFS to the local disk of your CVM

COS/CFS path	Local path
<input type="text" value="cos://batchgz-1254293304.cos.ap-guangzhou.myqcloud.cc"/> Check	<input type="text" value="/data/input"/>
Activate	

Output path mapping

Copy the computing results from the local disk of your CVM to the COS/CFS

Local path	COS/CFS path
<input type="text" value="/data/output"/>	<input type="text" value="cos://batchgz-1254"/>
Activate	

[Save](#)[Cancel](#)

Input path mapping: for Linux, [COS](#) and [CFS](#) are supported; for Windows, [CFS](#) is supported. For the format requirements of COS and CFS paths, please see [How to Enter COS and CFS Paths](#). In addition, please note that the format of local paths vary by operating system.

Output path mapping: [COS](#) is supported. For the format requirements of COS path, please see [How to Enter COS and CFS Paths](#).

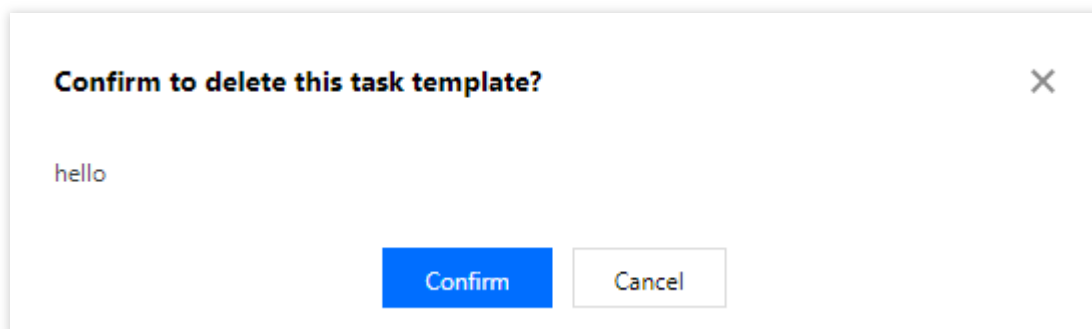
6. Click **Next**. After confirming that the task template JSON file is correct, click **Save** to complete task template creation.

Task template JSON file preview

```
1 {
2   "TaskTemplateName": "hello",
3   "TaskTemplateDescription": "echo 'hello world'",
4   "TaskTemplateId": "task-tmpl-fux389do",
5   "CreateTime": "2018-11-30T04:29:19Z",
6   "TaskTemplateInfo": {
7     "TaskInstanceNum": 1,
8     "ComputeEnv": {
9       "EnvType": "MANAGED",
10      "EnvData": {
11        "SystemDisk": {
12          "DiskSize": "50",
13          "DiskType": "CLOUD_PREMIUM"
14        },
15        "InstanceChargeType": "POSTPAID_BY_HOUR",
16        "InstanceType": "S2.SMALL1",
17        "DataDisks": [
18          {
19            "DiskSize": "0",
20            "DiskType": "CLOUD_PREMIUM"
21          }
22        ],
23        "ImageId": "img-8toqc6s3"
24      }
25    },
26    "RedirectInfo": {
```

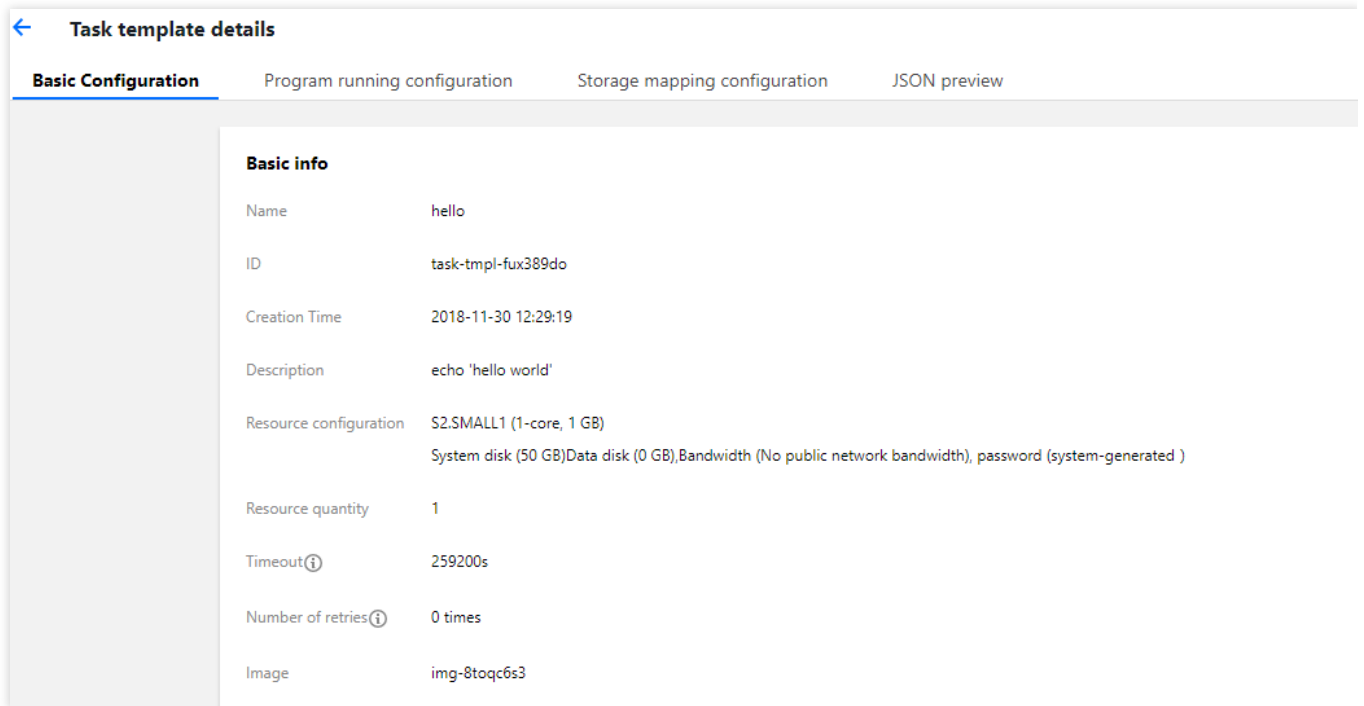
Deleting Task Template

If you no longer need to use a task template, you can delete it on the **Task Template** list page.



Modifying Task Template

If you need to edit an existing task template, you can click the task template ID on the **Task Template** list page to enter the task template configuration page and edit the configuration items as shown below:



The screenshot shows the 'Task template details' page with the 'Basic Configuration' tab selected. The page displays a table of basic information for a task template named 'hello'.

Basic info	
Name	hello
ID	task-tmpl-fux389do
Creation Time	2018-11-30 12:29:19
Description	echo 'hello world'
Resource configuration	S2.SMALL1 (1-core, 1 GB) System disk (50 GB)Data disk (0 GB),Bandwidth (No public network bandwidth), password (system-generated)
Resource quantity	1
Timeout ⓘ	259200s
Number of retries ⓘ	0 times
Image	img-8toqc6s3

Job Management

Creating, Terminating and Deleting a Job

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Overview

This document describes how to create, terminate and delete a job in the BatchCompute console. For more information about jobs, see the “Job” section in [Glossary](#).

Directions

Creating a Job

1. Log in to the [BatchCompute console](#).
2. Select Job in the left sidebar, and choose a region from the top.
3. Click Create.
4. On the Create job page, configure basic information of the job.

The screenshot displays the 'Create Job' configuration page in the Tencent Cloud BatchCompute console. It includes the following fields and components:

- Job name:** A text input field with a placeholder 'Enter the job name'.
- Priority:** A text input field containing the value '0'. Below it, a note states: 'It should range from 0 to 100. A higher value means a higher priority.'
- Tag configuration:** A table with three columns: 'Tag key', 'Tag value', and 'Operation'. The table currently contains two rows, each with 'Please select' in the 'Tag key' and 'Tag value' columns, and an 'x' icon in the 'Operation' column. An 'Add' button is located below the table.
- Description:** A large text area with the placeholder text 'Optional'.

5. In the Task flow section, select tasks under Task template and place them onto the right section. Drag and drop them to establish connections.

Task flow
You can set dependencies between different tasks here.
Click to select the task on the left, and move the mouse cursor to place the task on the canvas on the right. Drag the anchor to connect the task to other tasks. Click on the selected element in the canvas and press "Delete" to delete the element.

Task Template

- post-task
- pre-task2
- pre-task1
- hello

pre-task2

pre-task1

post-task

post-task

Basic info

Name: post-task

Resource configuration: S2.SMALL1 (1-core, 1 GB)
System disk (50 GB), data disk (0GB)

Concurrent instances: 1

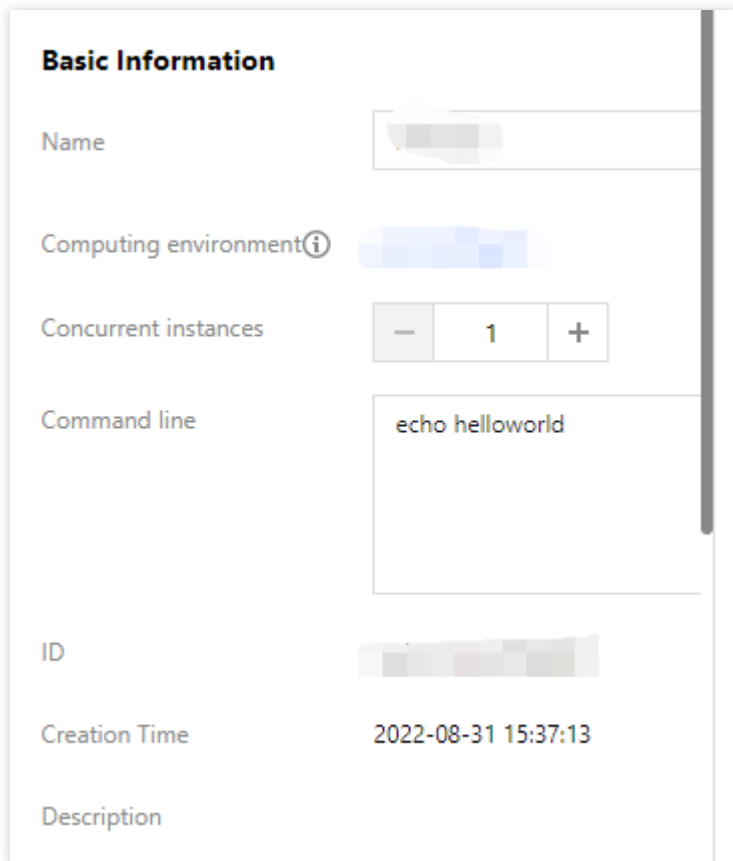
Command line: echo hello world

ID: task-tmpl-j2cu5l6c

Creation Time: 2018-11-30 15:37:39

Completed Cancel

6. Toggle on Task information on the right, and confirm the task configurations.



Basic Information

Name

Computing environment ⓘ

Concurrent instances: - 1 +

Command line: echo helloworld

ID

Creation Time: 2022-08-31 15:37:13

Description

Each task is generated based on the task template.

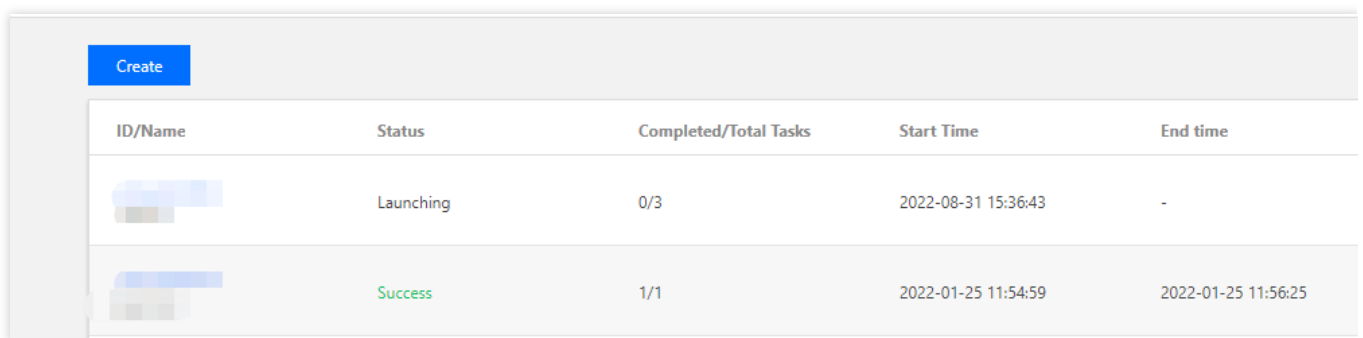
You can select a task to edit the configurations. The task template is not affected by the editing.

7. Click Done to complete the process.

Terminating a Job

You can terminate a job under certain conditions. For more information, see [TerminateTaskInstance](#). See directions below:

1. Log in to the BatchCompute console, and select [Job](#) in the left sidebar.
2. Click Terminate on the right of the target job.



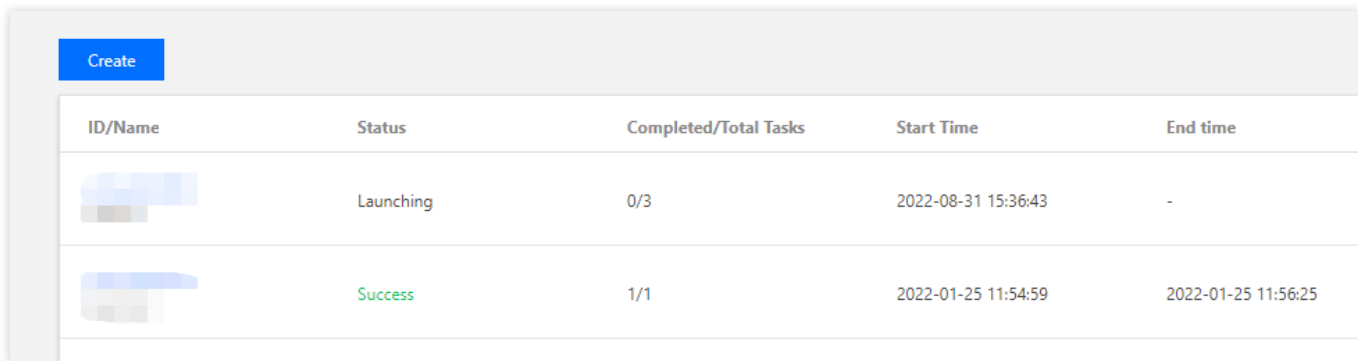
ID/Name	Status	Completed/Total Tasks	Start Time	End time
	Launching	0/3	2022-08-31 15:36:43	-
	Success	1/1	2022-01-25 11:54:59	2022-01-25 11:56:25

3. In the pop-up window, click OK.

Deleting a Job

You can delete a job when it is in Successful or Failed to run status. See directions below:

1. Log in to the BatchCompute console, and select [Job](#) in the left sidebar.
2. Click Delete on the right of the target job.



ID/Name	Status	Completed/Total Tasks	Start Time	End time
[blurred]	Launching	0/3	2022-08-31 15:36:43	-
[blurred]	Success	1/1	2022-01-25 11:54:59	2022-01-25 11:56:25

3. In the pop-up window, click OK.

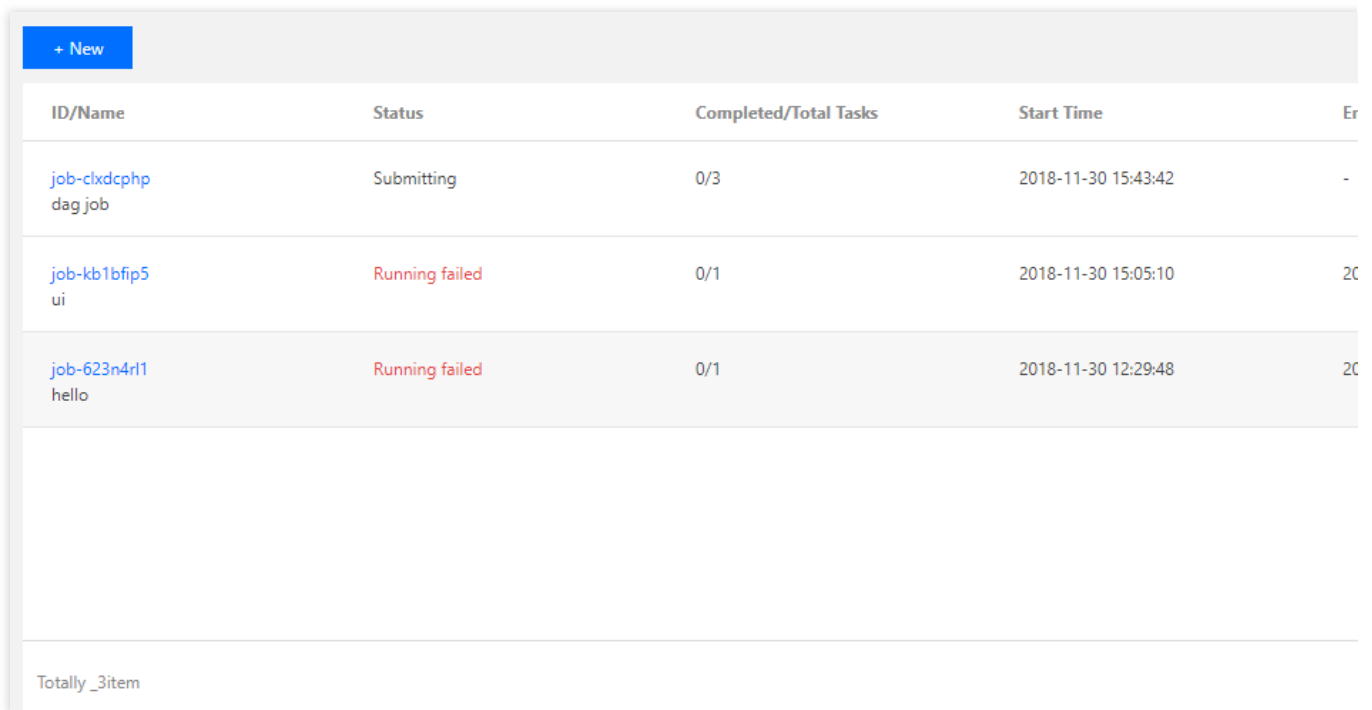
Information Query

Last updated : 2024-01-13 11:19:29

You can query the job information in the [BatchCompute Console](#). If you have not activated the BatchCompute service, activate it as prompted on the BatchCompute Console page.

Querying Job Information

You can view the running status of a job on the job list page.

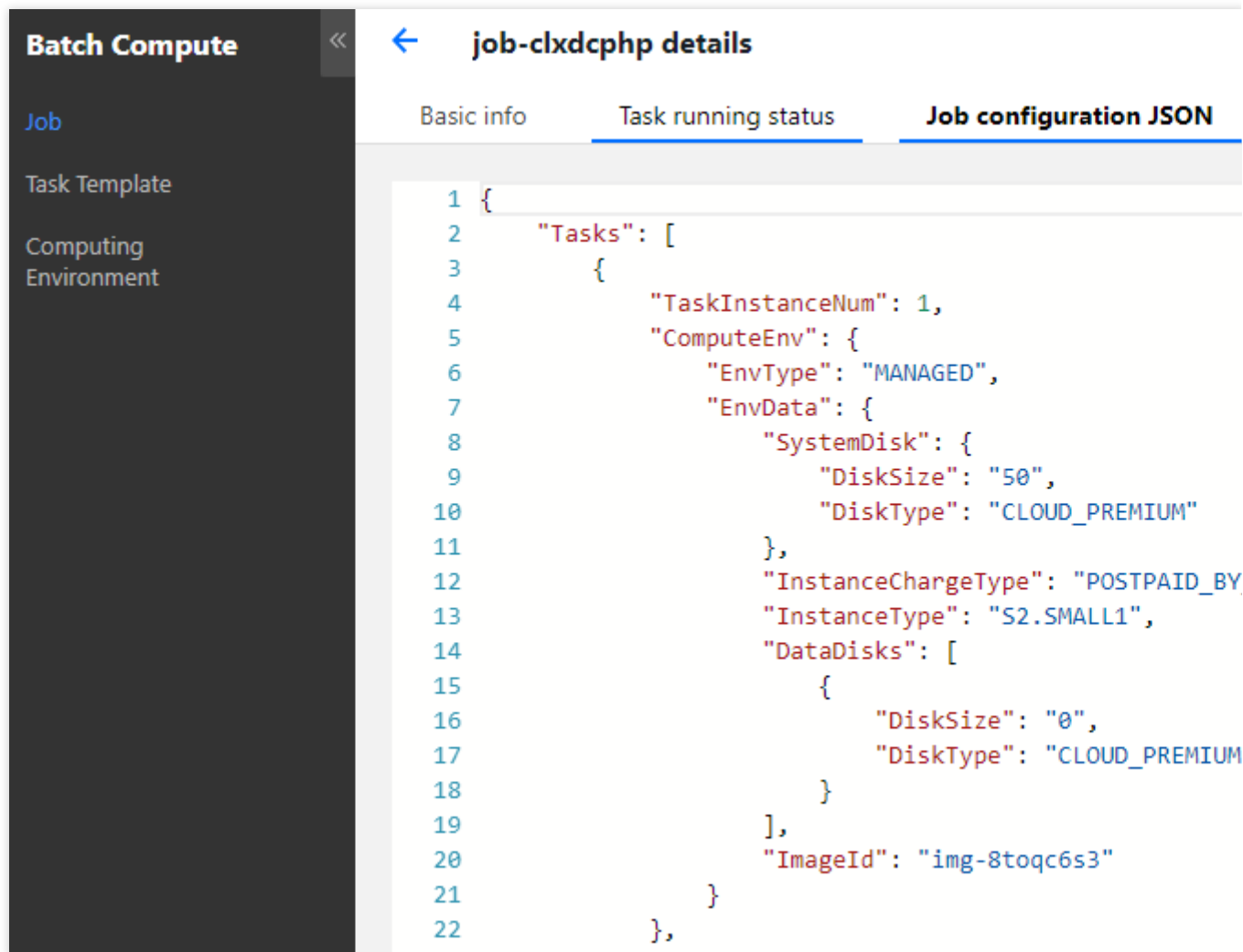


ID/Name	Status	Completed/Total Tasks	Start Time	Er
job-clxdcphp dag job	Submitting	0/3	2018-11-30 15:43:42	-
job-kb1bfip5 ui	Running failed	0/1	2018-11-30 15:05:10	20
job-623n4r1 hello	Running failed	0/1	2018-11-30 12:29:48	20

Totally _3item

Querying Job Submission Information

On the job list page, click a job ID to view the basic information of the job, and the job submission information is displayed in "Job Configuration (JSON)".



The screenshot displays the 'Batch Compute' console interface. On the left is a navigation sidebar with 'Batch Compute' at the top, followed by 'Job', 'Task Template', 'Computing Environment', and 'Environment'. The main content area is titled 'job-clxdcphp details' and has three tabs: 'Basic info', 'Task running status', and 'Job configuration JSON'. The 'Job configuration JSON' tab is active, showing a JSON configuration for a task. The JSON is as follows:

```
1 {
2   "Tasks": [
3     {
4       "TaskInstanceNum": 1,
5       "ComputeEnv": {
6         "EnvType": "MANAGED",
7         "EnvData": {
8           "SystemDisk": {
9             "DiskSize": "50",
10            "DiskType": "CLOUD_PREMIUM"
11          },
12          "InstanceChargeType": "POSTPAID_BY_HOUR",
13          "InstanceType": "S2.SMALL1",
14          "DataDisks": [
15            {
16              "DiskSize": "0",
17              "DiskType": "CLOUD_PREMIUM"
18            }
19          ],
20          "ImageId": "img-8toqc6s3"
21        }
22      }
23    ]
24  }
```

Querying Task Information

On the job list page, click a job ID to view the running status of each task instance in "Task Running Status".

Click Query Log to view the standard output and standard error of a task instance.

job-clxdcphp details

Basic info

Task running status

Job configuration JSON



Note: Click a task to view the running status of all instances under the task

post-task

0 instances are in the process of computing, 0 instances are waiting, and 0 instances finished

Name/Instance ID	Status	Start Time
post-task_0	Failed	-
-	-	-