

# **Batch Compute Console User Guide Product Documentation**



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# Contents

Console User Guide

- Task Template Management

- Job Management

  - Creation & Termination & Deletion

  - Information Query

# Console User Guide

## Task Template Management

Last updated : 2020-06-23 15:52:59

### 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 customization. For more information, please see [CVM Product Documentation](#).
  - **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"/> <a href="#">Check</a>	<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-1254293304.cos.ap-guangzhou.myqcloud.cc"/> <a href="#">Check</a>

[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   "TemplateName": "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.

**Confirm to delete this task template?**

hello

**Confirm**

Cancel

# 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:

← Task template details

Basic Configuration Program running configuration Storage mapping configuration JSON preview

Basic info		<a href="#">Edit</a>
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 <sup>①</sup>	259200s	
Number of retries <sup>①</sup>	0 times	
Image	img-8toqc6s3	



# Job Management

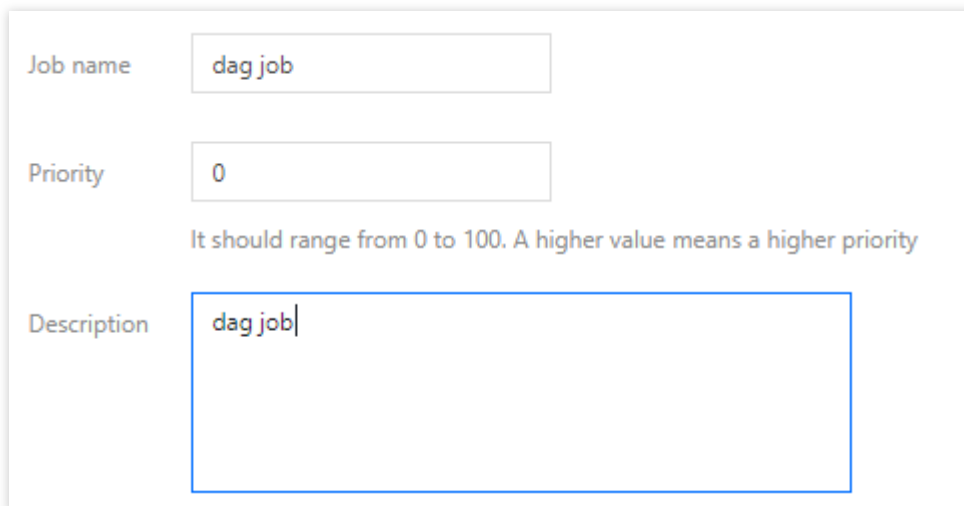
## Creation & Termination & Deletion

Last updated : 2020-06-23 15:52:59

### Creating Job

For more information on job, please see "Job" in [Glossary](#). You can create a job in the [BatchCompute Console](#).

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 **Job** on the left sidebar and select the target region at the top of the page.
3. On the "Job" list page, click **Create**.
4. On the "Create Job" page, configure basic information of the job as shown below:



Job name	<input type="text" value="dag job"/>
Priority	<input type="text" value="0"/>
	<small>It should range from 0 to 100. A higher value means a higher priority</small>
Description	<input type="text" value="dag job"/>

5. Select the task template on the left on the "Task Flow" page, move the task onto the canvas on the right with the mouse, and create a link by dragging and dropping anchors as shown below:

**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 information

Task Template

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

```
graph LR; pre-task1 --> post-task; pre-task2 --> 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. Enable "Task Details" on the right on the "Task Flow" page and confirm that the configuration is correct.

ment in the canvas and press "Delete" to

Task information

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

Description post-task

Timeout 259200

- In the job task flow, each task is created based on the customized task template.
- Turn on "Task Information" on the right, select a task, and you can edit the configuration of the task. The editing operations do not affect the task template.

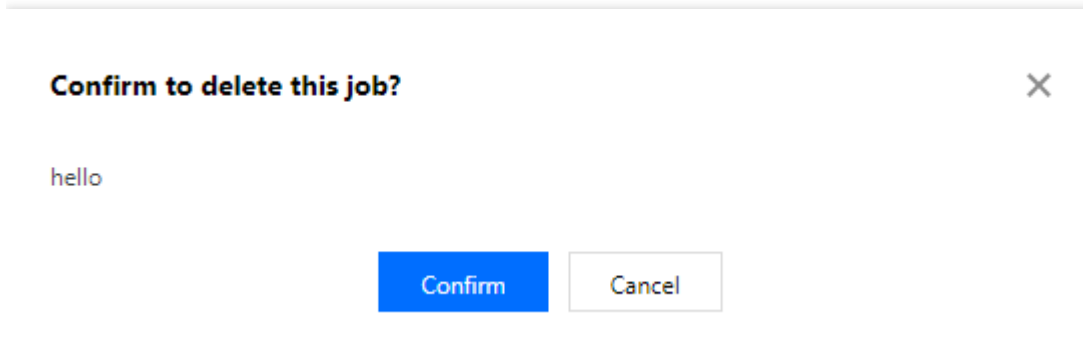
7. After confirming that everything is correct, click **Complete** to complete the creation.

## Terminating Job

You can terminate the operation of a job under certain conditions.

## Deleting Job

If the job is in the completed state (either "succeed" or "failed"), it can be deleted from the job list as shown below:



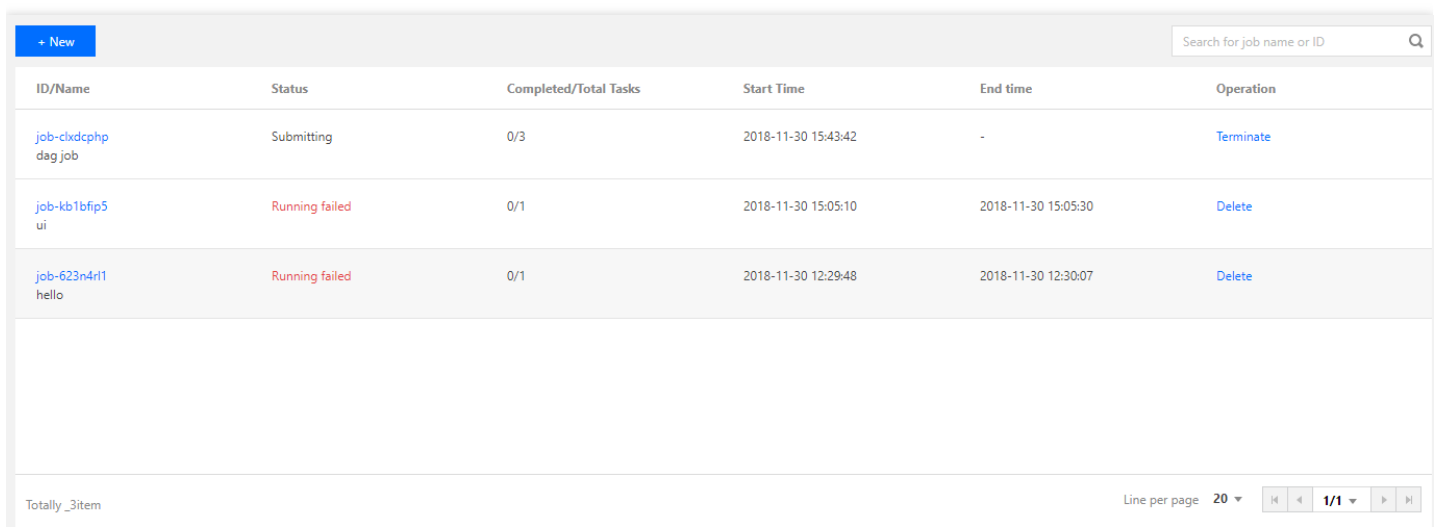
# Information Query

Last updated : 2020-05-08 10:25:26

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.



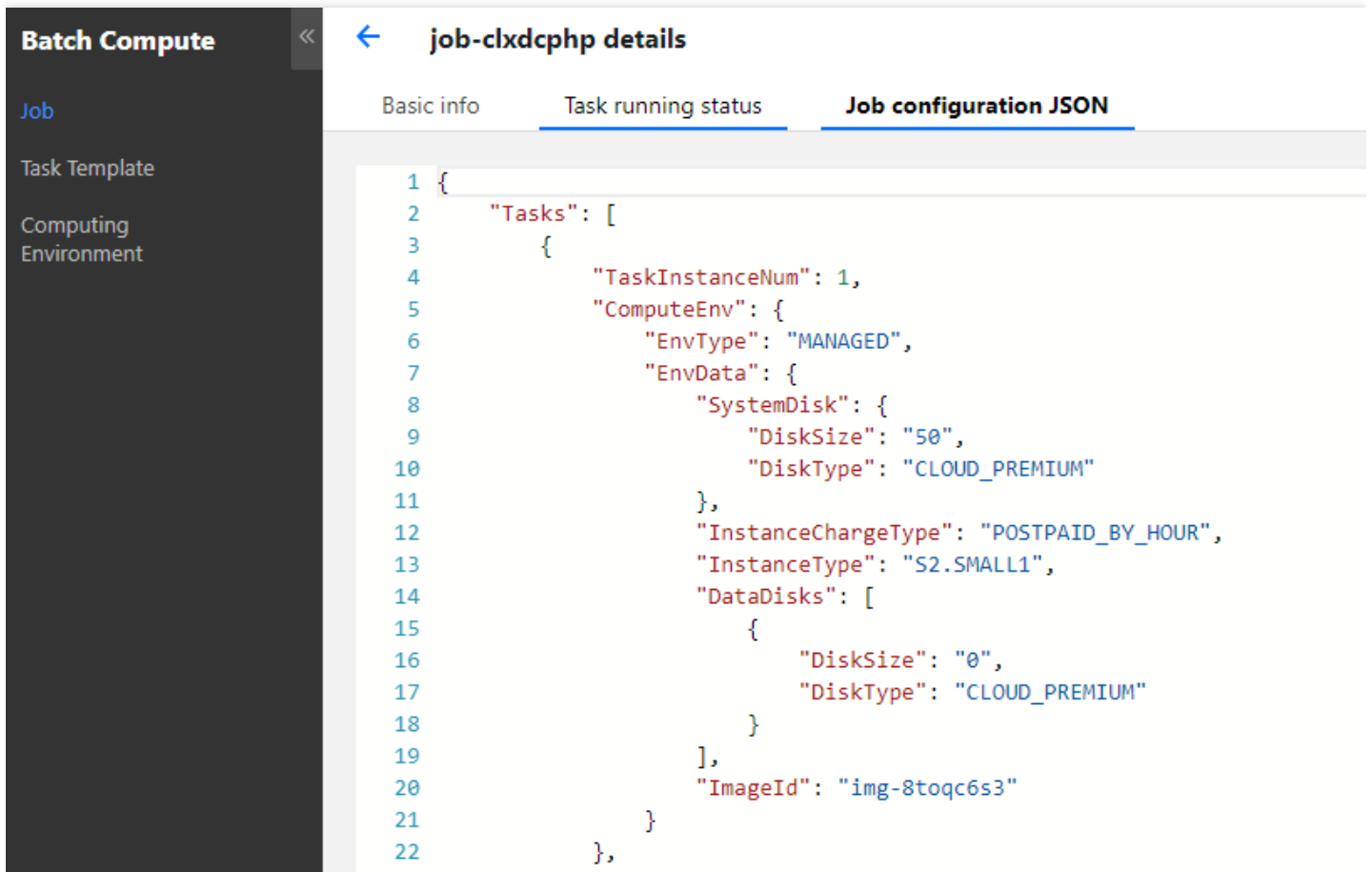
ID/Name	Status	Completed/Total Tasks	Start Time	End time	Operation
<a href="#">job-clxdcphp</a> dag.job	Submitting	0/3	2018-11-30 15:43:42	-	<a href="#">Terminate</a>
<a href="#">job-kb1bfip5</a> ui	Running failed	0/1	2018-11-30 15:05:10	2018-11-30 15:05:30	<a href="#">Delete</a>
<a href="#">job-623n4r1</a> hello	Running failed	0/1	2018-11-30 12:29:48	2018-11-30 12:30:07	<a href="#">Delete</a>

Totally 3item

Line per page 20

## 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 'job-clxdcphp details' page in the Tencent Cloud Batch Compute console. The left sidebar shows navigation options: 'Batch Compute', 'Job', 'Task Template', 'Computing Environment', and 'Environment'. The main content area 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 instance. 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-clxdcpb 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	End time	Operation
post-task_0	Failed	-	-	<a href="#">View Log</a>