

## Online Migration from 3rd Cloud



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## Update Recoding

| Version | Launch time | Owner                      | Comments   |
|---------|-------------|----------------------------|--|
| V1.0    | 2022-03-15  | yankeetian@te<br>ncent.com | This is v1.0 version release, as new<br>document |
|         |             |                            |  |
|         |             |                            |  |

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# 1 Overview

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## 1.1 About the Solution

Online migration refers to migrating or synchronizing systems and applications on the source server or virtual machine from your IDCs or other cloud platforms to Tencent Cloud with no system downtime.

After the go2tencentcloud migration tool provided by Tencent Cloud is executed on the source server to be migrated, all systems and service applications running on the source server can be migrated to the destination CVM. This tool can directly migrate source data to the cloud without the tedious preparation procedure of creating, uploading, and importing images. It can meet enterprises' business requirements for cloud deployment, cross-cloud platform migration, cross-account or cross-region migration, and hybrid cloud deployment.

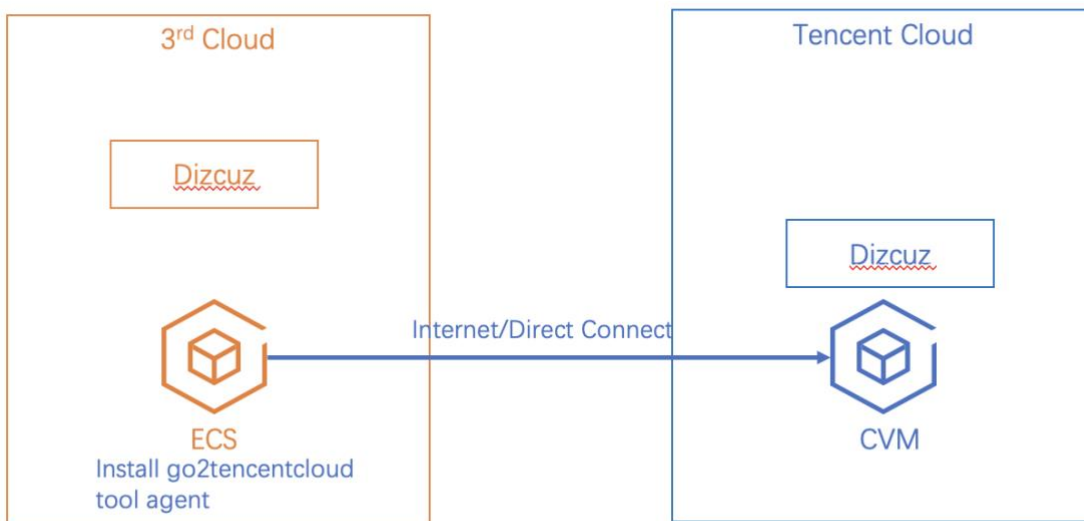
The source server can be a physical server, a virtual machine, or a cloud server on another cloud platform, such as AWS, Microsoft Azure, Google Cloud Platform, VMware, Alibaba Cloud, or Huawei Cloud.

More details, please refer to [Tencent Cloud Documentation center](#).

## 1.2 The Solution Architecture Diagram

This is Online Migration demo from Aliyun ECS to Tencent Cloud CVM. In order to make it easier for you to understand and experience the migration process, you have a preliminary understanding of the Tencent Cloud migration tool ( go2tencentcloud ).

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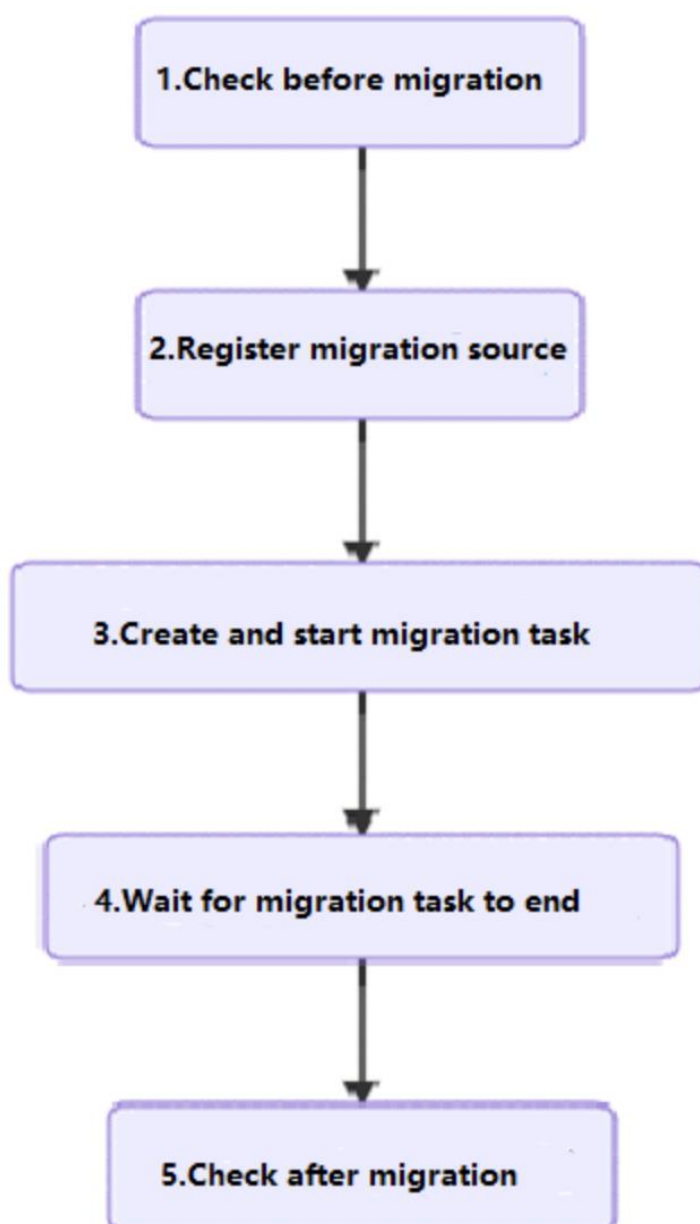
## 2 Procedure Guidance

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### 2.1 Prerequisites

This document describes how to use the online migration feature in the CVM console to migrate a server online.

Migration process as follow:





**Source Server:** Aliyun ECS in Hangzhou, Discuz!X3.3(CentOS 7.3), 1vCPU 1GiB

**Destination Server:** Tencent Cloud CVM in Hongkong, TencentOS Server 2.4, 2-core 4 GB

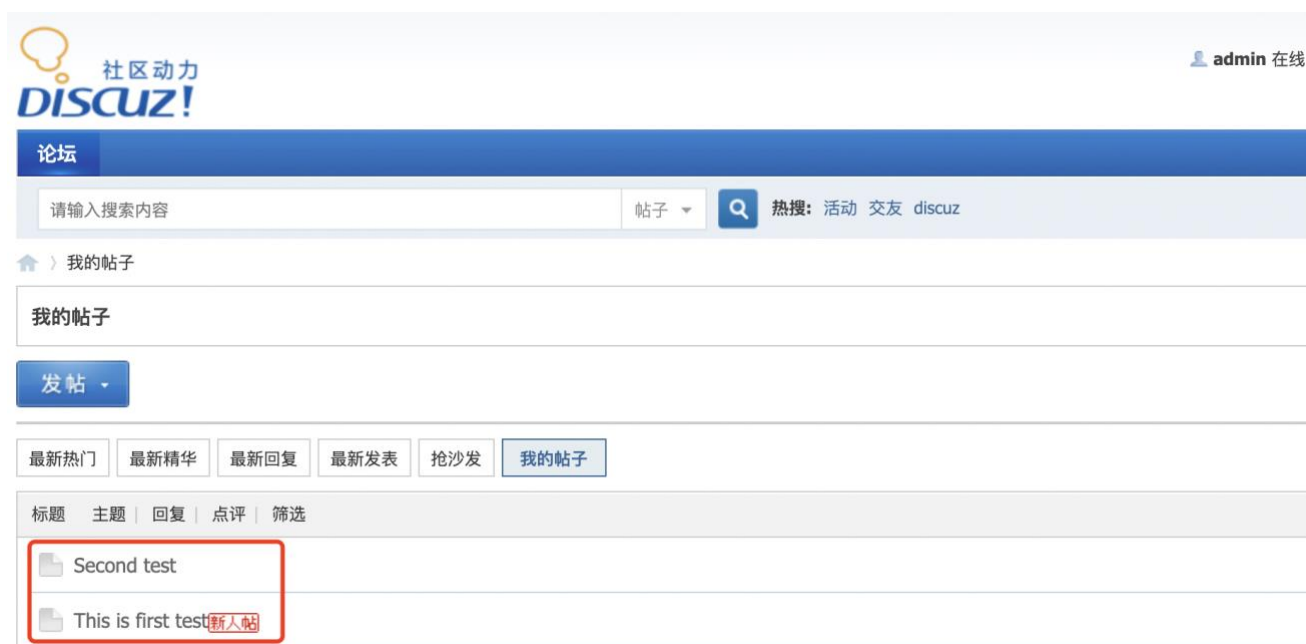
**Key information:** SecretId and SecretKey of your Tencent Cloud account.

## 2.2 Operation guidance

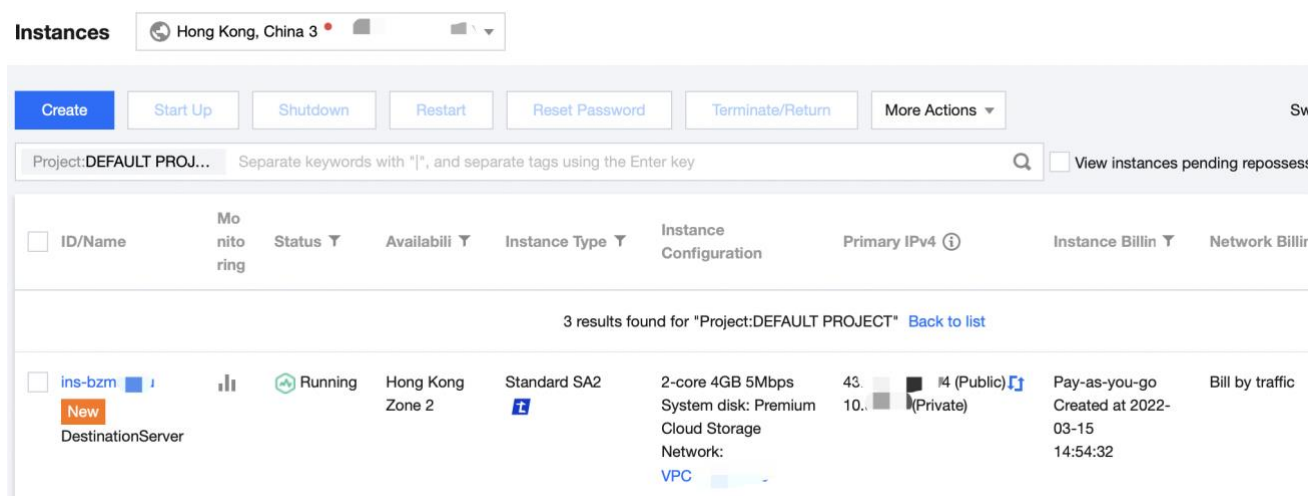
**Step 1:** create a ECS in Hangzhou of Aliyun, as source server, select Discuz! Image from market in order to save time.



Then submit two posts, as test data, we will verify the migration result later.



**Step 2:** Create a CVM in Hongkong of Tencent Cloud, as Destination Server. Guidance of create CVM, please refer to [Tencent Cloud Documentation center](#).



| ID/Name                             | Mo nito ring | Status  | Availabili ring  | Instance Type | Instance Configuration   | Primary IPv4                       | Instance Billin                                 | Network Billin  |
|-------------------------------------|--------------|---------|------------------|---------------|--|------------------------------------|---|-----------------|
| ins-bzm<br>New<br>DestinationServer |              | Running | Hong Kong Zone 2 | Standard SA2  | 2-core 4GB 5Mbps<br>System disk: Premium Cloud Storage<br>Network: VPC | 43.10.<br>M4 (Public)<br>(Private) | Pay-as-you-go<br>Created at 2022-03-15 14:54:32 | Bill by traffic |

**Step 3:** Back to Source Server, install Migration tool, and start it. Download migration tool package(go2tencentcloud.zip). if you can't download via command, please refer to Prerequisites of [Documentation center](#).

wget <https://go2tencentcloud-1251783334.cos.ap-guangzhou.myqcloud.com/latest/go2tencentcloud.zip>

```
[root@Source-server ~]# wget https://go2tencentcloud-1251783334.cos.ap-guangzhou.myqcloud.com/latest/go2tencentcloud.zip
--2022-03-15 15:13:53-- https://go2tencentcloud-1251783334.cos.ap-guangzhou.myqcloud.com/latest/go2tencentcloud.zip
正在解析主机 go2tencentcloud-1251783334.cos.ap-guangzhou.myqcloud.com (go2tencentcloud-1251783334.cos.ap-guangzhou.myqcloud.com)... 159.75.57.118, 159.75.57.118, 159.75.57.118, 159.75.57.118
正在连接 go2tencentcloud-1251783334.cos.ap-guangzhou.myqcloud.com (go2tencentcloud-1251783334.cos.ap-guangzhou.myqcloud.com)|159.75.57.28|:443... 已连接。
已发出 HTTP 请求, 正在等待回应... 200 OK
长度: 10086465 (9.6M) [application/zip]
正在保存至: "go2tencentcloud.zip"

100%[=====>] 10,086,465 11.7MB/s 用时 0.8s

2022-03-15 15:13:55 (11.7 MB/s) - 已保存 "go2tencentcloud.zip" [10086465/10086465]

[root@Source-server ~]# ls
default.pass  go2tencentcloud.zip
```

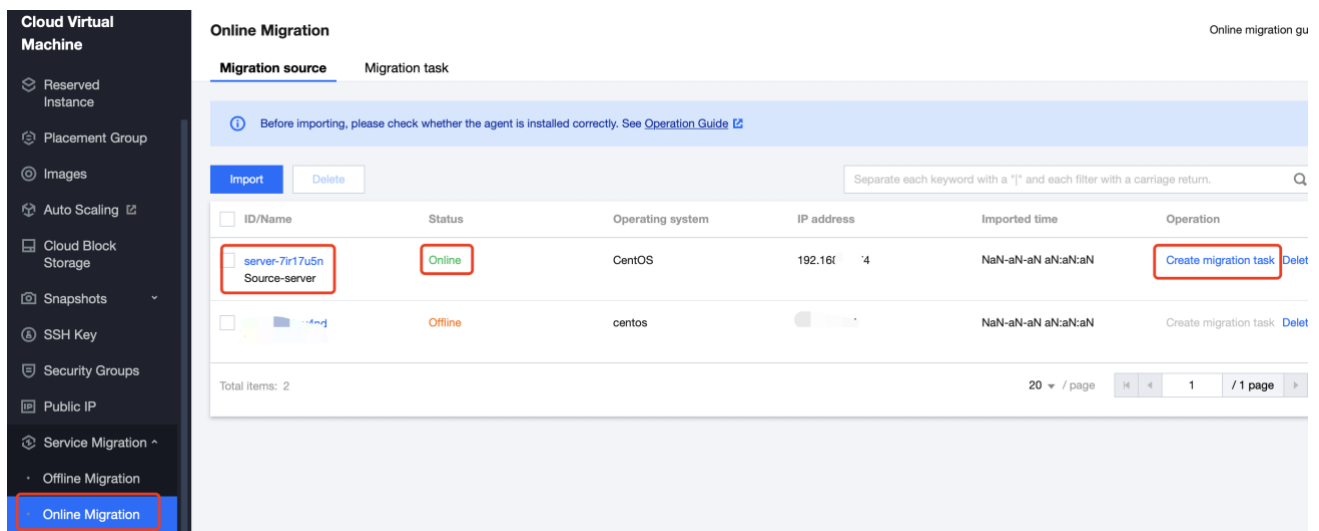
Unzip the package and enter the directory, then unzip `go2tencentcloud_console.zip` and enter. In this demo, use console to migrate.

```
[root@Source-server ~]#
[root@Source-server ~]# unzip go2tencentcloud.zip
Archive: go2tencentcloud.zip
  creating: go2tencentcloud/
  extracting: go2tencentcloud/go2tencentcloud_console.zip
  extracting: go2tencentcloud/release_notes.txt
  inflating: go2tencentcloud/readme.txt
  extracting: go2tencentcloud/go2tencentcloud_tool.zip
[root@Source-server ~]# ls
default.pass  go2tencentcloud  go2tencentcloud.zip
[root@Source-server ~]# cd go2tencentcloud
[root@Source-server go2tencentcloud]# ls
go2tencentcloud_console.zip  readme.txt
go2tencentcloud_tool.zip    release_notes.txt
[root@Source-server go2tencentcloud]# unzip go2tencentcloud_console.zip
Archive: go2tencentcloud_console.zip
  creating: go2tencentcloud_console/
  inflating: go2tencentcloud_console/go2tencentcloud_x32
  inflating: go2tencentcloud_console/user.json
  inflating: go2tencentcloud_console/rsync_excludes_linux.txt
  inflating: go2tencentcloud_console/go2tencentcloud_x64
  inflating: go2tencentcloud_console/client.json
[root@Source-server go2tencentcloud]# ls
go2tencentcloud_console  go2tencentcloud_tool.zip  release_notes.txt
go2tencentcloud_console.zip  readme.txt
[root@Source-server go2tencentcloud]# cd go2tencentcloud_console
[root@Source-server go2tencentcloud_console]# ls
client.json  go2tencentcloud_x64  user.json
go2tencentcloud_x32  rsync_excludes_linux.txt
[root@Source-server go2tencentcloud_console]#
```

Run `go2tencentcloud_x64` command, input `SecretId` and `SecretKey` that prepared before. If remind not found `rsync`, install it at first.

```
[root@Source-server go2tencentcloud_console]# ./go2tencentcloud_x64
[2022-03-15 15:29:09] Start go2tencentcloud 2.2.3
[2022-03-15 15:29:09] Start loading data...
Please Enter SecretId: IKIDKRItDG2XkgGc
Please Enter SecretKey: *****
[2022-03-15 15:29:44] Load user.json successfully.
[2022-03-15 15:29:44] Load client.json successfully.
```

**Step 4:** Go to Tencent Cloud CVM console, the status is online.



The screenshot shows the Tencent Cloud CVM console interface for Online Migration. On the left is a navigation sidebar with 'Online Migration' selected. The main content area is titled 'Online Migration' and has two tabs: 'Migration source' (active) and 'Migration task'. A blue banner at the top contains a warning: 'Before importing, please check whether the agent is installed correctly. See Operation Guide'. Below this is a search bar and two buttons: 'Import' and 'Delete'. A table lists migration sources:

| ID/Name                         | Status  | Operating system | IP address | Imported time   | Operation                   |
|---------------------------------|---------|------------------|------------|-----------------|-----------------------------|
| server-7r17u5n<br>Source-server | Online  | CentOS           | 192.168.4  | NaN-aN-aN:aN:aN | Create migration task Delet |
|                                 | Offline | centos           |            | NaN-aN-aN:aN:aN | Create migration task Delet |

At the bottom of the table, it says 'Total items: 2' and '20 / page'. The page number is '1 / 1 page'.

Create migration task, and start it.

Selected: 1 Migration source [Hide](#)

| ID/Name                          | Status | Operating system |
|----------------------------------|--------|------------------|
| server-7ir17u5n<br>Source-server | Online | CentOS           |

Target region

Hong Kong, China ▼

Task name

MigrationDiscuz

Task description

(Optional) Enter the task description

Target type

CVM image  CVM instance

Select a CVM instance

ins-b... 1u ▼

Scheduled start time

If it's not selected, only the task is created.

Transfer speed limit (KB/s)

Defaults to unlimited

Checksum verification

When it's enabled, the data consistency is improved, but the transfer speed is slower.

OK

Cancel

Online Migration

Migration source **Migration task** Online migration guide

✔ Operation succeeded ✕

❗ If the migration task fails, please check the migration logs. See [Operation Guide](#)

Start/restart Delete  🔍

| Task ID/name   | Task status | Source ID/Name                   | Target region    | Destination       | Operation   |
|--|-------------|----------------------------------|------------------|-------------------|---|
| <input type="checkbox"/> migrate-568gdaeb<br>MigrationDiscuz | Migrating   | server-7ir17u5n<br>Source-server | Hong Kong, China | DestinationServer | Create CVM instance<br>Start/restart Pause Delete |

The migration process will spend long time, you can view the log information via SSH window until 100% completed.

```
[root@Source-server go2tencentcloud_console]# ./go2tencentcloud_x64
[2022-03-15 15:34:10] Start go2tencentcloud 2.2.3
[2022-03-15 15:34:10] Start loading data...
[2022-03-15 15:34:10] Load user.json successfully.
[2022-03-15 15:34:10] Load client.json successfully.
[2022-03-15 15:34:10] Calculating the size of file system, please wait...
[2022-03-15 15:34:12] Check environment...
[2022-03-15 15:34:18] Check environment successfully.
[2022-03-15 15:34:18] Start import source server...
[2022-03-15 15:34:18] Import source server [server-7ir17u5n] successfully.
Please start job [migrate-568gdaeb] in the console, Used: 00:07:01
[2022-03-15 15:42:20] Migrate job [migrate-568gdaeb] start running.
[2022-03-15 15:42:20] Start checking remote instance...
[2022-03-15 15:42:21] Check remote instance successfully.
[2022-03-15 15:42:21] [1/3] Initialize instance
[2022-03-15 15:42:22] Restart remote instance...
Used: 00:00:22 | Max Timeout: 00:10:00
[2022-03-15 15:42:45] Restart remote instance successfully.
[2022-03-15 15:42:45] Start preparing remote server...
[2022-03-15 15:42:45] Prepare remote server successfully.
[2022-03-15 15:42:45] Start initializing remote server...
Used: 00:00:07 | Max Timeout: 00:10:00
[2022-03-15 15:42:53] Initialize remote server successfully.
[2022-03-15 15:42:53] [2/3] Synchronize files
[2022-03-15 15:42:53] Transmitting files...
[#####] 100% | 01:12:25
[2022-03-15 16:55:18] Transmit files successfully.
[2022-03-15 16:55:18] Reconfigure remote instance
```

## Online Migration

Migration source **Migration task**

**Migration task**

If the migration task fails, please check the migration logs. See [Operation Guide](#)

Start/restart Delete Separate each keyword with a "|" and each

| Task ID/name   | Task status | Source ID/Name           | Target region    | Destination          |
|--|-------------|--------------------------|------------------|----------------------|
| <input type="checkbox"/> migrate-568gdaeb<br>MigrationDiscuz | Successful  | server- <span>u5n</span> | Hong Kong, China | in- <span>y1u</span> |

**Step 5:** verify the migration result. Access Discuz website to use Destination Server IP via browser.

论坛

请输入搜索内容 帖子 热搜: 活动 交友 discuz

我的帖子

发帖

最新热门 最新精华 最新回复 最新发表 抢沙发 我的帖子

| 标题                 | 主题  | 回复 | 点评 | 筛选 | 版块/群组 | 作者            |
|--------------------|-----|----|----|----|-------|---------------|
| Second test        |     |    |    |    | 默认版块  | admin<br>2小时前 |
| This is first test | 新人配 |    |    |    | 默认版块  | admin<br>2小时前 |

Successfully login in, and view the two posts that created in Source Server(ECS) before. OS of Destination server is changed from TencentOS to CentOS.

**Instances** Hong Kong, China 3 Other regions(56)

Create Start Up Shutdown Restart Reset Password Terminate/Return More Actions Swit

Project:DEFAULT PROJ...  Separate keywords with "|", and separate tags using the Enter key  View instances pending repossessio

| ID/Name  | Mo<br>nito<br>ring | Status  | Availabili          | Instance Type | Instance<br>Configuration  | Primary IPv4                     | Instance Billin  | Network Billin  |
|--|--------------------|---------|---------------------|---------------|--|----------------------------------|--|-----------------|
| 3 results found for "Project:DEFAULT PROJECT" <a href="#">Back to list</a> |                    |         |                     |               |  |                                  |  |                 |
| <input type="checkbox"/> ir. .y1u<br>DestinationServer                     |                    | Running | Hong Kong<br>Zone 2 | Standard SA2  | 2-core 4GB 5Mbps<br>System disk: Premium<br>Cloud Storage<br>Network:<br>VPC | 43.125. (Public)<br>1C (Private) | Pay-as-you-go<br>Created at 2022-<br>03-15<br>14:54:32 | Bill by traffic |