# Alibaba Cloud Quick Start Guide

Haivision Gateway 3.7 on Alibaba Cloud



This quick start guide describes how to create and configure a virtual Media Gateway/SRT Gateway server on Alibaba Cloud. For detailed configuration and operation information, please refer to the User's Guide.

# About Alibaba Cloud

Alibaba Cloud is a cloud computing platform for building, deploying and managing applications and services through a network of hosted data centers. Alibaba Cloud allows you to deploy and manage your Haivision Media Gateway/SRT Gateway instances in this global network. For more information, please visit:

## https://intl.aliyun.com

## About Media Gateway/SRT Gateway

The Haivision Media Gateway/SRT Gateway serves as a bridge between video infrastructures, and is used to distribute live video to multiple sites, or to aggregate live video from multiple remote locations. Powered by Haivision's SRT (Secure Reliable Transport) technology, the Haivision Media Gateway/SRT Gateway is ideal for transporting high-quality, secure live video across public and private networks.

## **Before You Start**

You must have an active Alibaba Cloud account to sign in to the AliCloud Console. For evaluation purposes you can subscribe to Alibaba Cloud for a 30-day trial period. For more information, please visit: https://intl.aliyun.com/campaign/free-trial

With Alibaba Cloud, you must "bring your own license" (BYOL). Please contact your Haivision representative to discuss your options. See Licensing Your Server for details.

### 🔒 Note

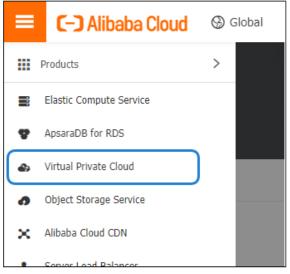
When configuring the network bandwidth limit, the value of 200 Mbps is the peak value, not the dedicated fixed bandwidth. This means you can enjoy up to 200-Mbps internet bandwidth, but paying for the actual traffic only.

## **Creating a Virtual Server**

- Creating the VPC and Network Subnets
- Creating a Virtual Instance
- Purchase an Elastic IP Address

## **Creating the VPC and Network Subnets**

- 1. Sign in to your Alibaba Cloud account: https://home.console.aliyun.com
- 2. Click the  $\equiv$  icon and click Virtual Private Cloud.



- 3. In the VPC Manage Console, click **VPC**.
- 4. Click Create VPC.

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VPCs Route Tables	Create VPC Refresh Custom				Instance Name $\lor$	Enter a	in ID			Q
VSwitches	Instance ID/Name	IPv4 CIDR Block	Status	Default VPC	Route Table	VSwitch	h	A	ctions	
Internet Shared Band			No data is avail	able						
Data Transfer Plan										

- 5. In the popup window:
  - a. Complete the VPC details.

### 🔒 Note

There are only 3 options for the CIDR blocks, which is the base network address range for all the subsequent subnets created within this VPC.

- b. Complete the VSwitch details.
  - The CIDR block for this subnet must be a subset of the CIDR block of the VPC defined above.
  - All ECS instances created within this subnet have their private addresses assigned out of this subnet address range
- c. Click the **OK** button.

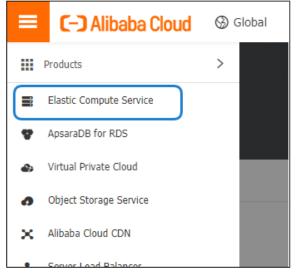
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VPC	Parisa.	
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	• Name 💿	
	0/128	
	0/120	
	IPv4 CIDR Block	
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	The CIDR cannot be changed once the VPC is created.	
	Description 💿	
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VSwitch		
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	• Zone 💿	
	Please select $\checkmark$	
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	IPv4 CIDR Block	
	192 · 168 · 0 · 0 / 24 ·	
	(1) The CIDR cannot be changed once the VPC is created.	
	Number of Available Private IPs	
	252	
	252 Description	
	252 Description	Cancel

### 🔥 Note

In AliCloud all subnets are considered private subnets unless there is an Elastic IP assigned to an ECS running inside that particular subnet.

## **Creating a Virtual Instance**

1. Click the  $\equiv$  icon and click Elastic Compute Service.



- 2. On the ECS Console, click Instances.
- 3. Click **Create Instance**.

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Elastic Compute Serv	Instances	⑦ Operation reference Create Instance
Overview Events	* Select an instance attribute or enter a keyword	Q Tags Advanced Search Advanced Search
Tags	Instance ID/Name Tag Monitoring Zone + IP Address Status	Network Type      Specifications Billing Method      Actions
Instances & Images		
Instances		
Elastic Container In 🖸		

- 4. Specify the details of your ECS purchase as follows:
  - In Billing Model, click Pay as You Go.
  - In Region, select the same Region used when you created the Virtual Private Cloud in Creating the VPC and Network Subnets .
  - In Instance Type, select the instance type per your workflow requirements.

#### 🔒 Note

We do not recommend using instances with low CPU resources, because the resulting performance of your server will be inadequate.

#### \rm A Important

For high bandwidth streams or critical viewing requirements, we recommend using Compute Optimized C7 Instances (e.g. ecs.c7.xlarge, ecs.c7.2xlarge, etc.) tiers, as they are optimized for compute-intensive workloads and have high-performance network I/O.

- In Image, click Marketplace Image, click Select from Alibaba Cloud Marketplace, and select Haivision Media Gateway or Haivision SRT Gateway in the list of images. Use the search textbox to quickly find the image.
- In Storage, add disks and specify their sizes as required by your workflow.

#### 🔒 Note

The default storage is sufficient for most operations. However, if you intend to use your server in conjunction with a video server (such as Media Gateway with Haivision Media Platform), having additional storage will allow you to benefit from local caching on the virtual server.

- Click Next: Networking.
- In Network Type, ensure the VPC and VSwitch that was created in Creating the VPC and Network Subnets is selected.
- In Public IP Address, check **Assign Public IP Address** and select the appropriate network bandwidth limit. The value is the peak value, not the dedicated fixed bandwidth.

### \rm A Note

Optionally, purchase an Elastic IP as described in Purchase an Elastic IP Address. An elastic IP address allows you to move the IP address between instances.

- In Security Group, select the checkboxes next to Port 80 and Port 443, and deselect Port 3389.
- Click Next: System Configurations.
- For SSH access to the Console UI:

• Ensure Key Pair and root are selected in Logon Credentials and Logon Username, and in Key Pair click **Create Key Pair**.

Logon Credentials	Key Pair	Password	Set Later	
Logon Username	💿 root 🔾	ecs-user		
	The root acco	unt is the most	privileged on (	operating systems. You may face security risks if you use root as your logon username. We recommend that you use ecs-user instead. Learn M
-				
Key Pair 🕐				Create Key Pair   Learn more.

- A new browser tab opens to the Create SSH Key Pair page. Enter a name and click **OK**. A .pem private key file is downloaded in your browser. Close the Key Pair browser tab.
- Back in the Create ECS browser tab, click the Key Pair C refresh button and select the key pair you just created in the dropdown. You will use the .pem private key file later after the instance is running. See Signing in to Your Server after finishing this procedure.
- In Instance Name, specify an instance name for easy management. You may choose to launch multiple ECS instances simultaneously, all with the same server specifications.
- Click Next: Grouping.
- Optionally, set any tags or deployment set.
- Click Next: Preview.
- A summary is shown at the bottom of the ECS purchase page, as well as its associated cost. 5. When satisfied with your selection, click **Create Order**.

astic Compute Ser	vice (ECS) Quick Launch Custom Lau	nch	() Purchase History 🗎 Pricing 🗎 Buy Disk 🌵 Cons
Basic Configurations	Vetworking	🕑 System Configurations (Optional) · 🖌	Grouping (Optional) 5 Preview
Configurations Selected			
Basic Configurations	Billing Method : Pay-As-You-Go	Region : Virginia Zone A	Instance Type : General Purpose Type with High Clock Speed hfq6 / ecs.hfq6.large (2vCPU BGiB)
-	Quantity: 1 Units	Image : Haivision SRT Gateway (BVOL) 3.3.0	System Disk : Ultra Disk 40GiB ,Release with Instance
Networking 🙋	Network Type : VPC	VPC : Test/ vpc-0xipktgr27z3xbf9udyq4	VSwitch : test2/ vsw-0xiv4ejq8q6jgftyte2gv/ 172.16.0.0/24
	Network Billing Method : Pay-By-Traffic 1Mbps	Security Group: 1). sg-0xiakwizulma1tzndesf	
System Configurations	Logon Credentials : Password	Instance Name : hsg33	
	Save as Launch Template	ecs-buy3.save-current-purchase-configuration-as-ros	s-template 💊 💿
Automatic Release	Automatic Release The FCS instance will be released at the time you specified. A	fter the instance is released, its data and IP addresses will not be	retained and cannot be retrieved.
	in the second seco		
Terms of Service	ECS Terms of Service and Product Terms of Service   Ima	ge Product Terms of Use	
dwidth: 1Mbps Pay-By-Traft			

6. You should see a successful confirmation message. Return to the ECS web console by clicking **Console**.

In the ECS console, within a few minutes the ECS instance status changes to Running. Note that the ECS instance only has a private IP address for now, as shown in the following figure. To connect to this instance, continue to Purchase an Elastic IP Address to purchase a public Elastic IP address.

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Elastic Compute Serv	Instances	⑦ Operation refere	nce Create Instance
Overview	The security group does not have any custom rules for access permissions. In this case, you cannot access any instances in the security group. To resolve this issue, add rules to allow acc	ess to the relevant instance ports. sg-0xiakwizi	ulma1tzndesf
Events	* Select an instance attribute or enter a keyword Q Tags		Advanced Search 💆 🔯
Tags	▼         Filters:         Instance ID: i-0xid1oh2fb0e79gnexm         ×         Clear		
Instances & Images	Instance ID/Name Tag Monitoring Zone • IP Address Status • Network Type • Specifications	Billing Method 👻	Actions
Instances	I-0xid tol:/b0e78gnexn         ● ● Ł         Virginia Zone A         172.160.112(/hivate)         ④ Running         VPC         2 vCPU8 668 (/O Optimized)           Isurch-schliption 2         ● ● L         Virginia Zone A         172.160.112(/hivate)         ④ Running         VPC         eccs@istree         eccs@istree         Moor (Peak Value)	Pay-As-You-Go October 18, 2019, 11:15 Create	Manage   Connect Change Instance Type   More -
Elastic Container In 🖸	Mairie Andrée Terres		3 71 10000
Dedicated Hosts	Start Stop Restart Reset Password Renew Switch to Subscription Release More.	Total: 1 item(s), Per Page: 20 🔻 item	(5) α c <b>1</b> > >
Super Computing Clus >			

## Purchase an Elastic IP Address

Instead of assigning a public IP directly with your instance, you may purchase an elastic IP address which can be moved between instances. The following instructions show how to purchase an elastic IP address and bind it to your instance:

- 1. Click the  $\equiv$  icon, click **Products**, and select **Elastic IP Address** under the Networking heading.
- 2. Click Create EIP.

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VPC	Elas	stic IP Addr	esses										
VPCs	Cre	sate EIP	Request Specific E	IP	Refresh	Export Custor	n	Elastic IP Ad	tress $\lor$	Enter ar	n Elastic IP Add	ess	Q
Route Tables VSwitches		Instance ID/Name	IP Address	Monitor	Bandwidth	Charge Type(All)	Status(All) T	Shared Bandwidth/G Acceleration	Bind Insta	ince	Instance Type(All) Tr	Actions	
Internet Shared Band						No data is a	alabla						
Data Transfer Plan						NO Gata is an	allable						
Elastic IP Addresses		Unbind	Release	Remov	e from Internet St	hared Bandwidth							

- 3. In the window that opens, select the options accordingly to the following:
  - In Network Traffic, click By traffic.
  - In Max Bandwidth, the value of 200 Mbps is the peak value, not the dedicated fixed bandwidth. This means you can enjoy up to 200-Mbps internet bandwidth, but paying for the actual traffic only.

A summary is shown on the right of the page, as well as its associated cost.

(-)	Alibaba Cloud					) 首 Ci	rt Ticke	s Bills English	<ul> <li>i****@haivisio</li> </ul>
Ela	stic IP								
Bask	Region Network Traffic isp Max Bandwidth	China (Qingdao) China (Shanghai) Singapore US (Virginia) By traffic BGP	China (Beijing) China (Sheraben) Australia (Sydney) US (Silicon Valley) US (Silicon Valley)	China (Zhangjiakou) China (Chengdu) Malaysia (Kuala Lumpur) UAE (Dubai)	China (Hohhot) China (Hong Kong) Asia Pacific SE 5 (Jakarta) Germany (Frankfurt) 000Mbps 200 M	China (Hangzhou) Japan (Tokyo) Asia Pacific SOU 1 (Mumbai) UK(London)		Current Selected Region: Network Traffic isp: Max Bandwidth: Billing Renn: Billing Renn: Quantity: Fee: \$Quantity: Public Traffic Fee: \$0.0076 Buy Now	US (Virginia) By traffic BGP 200 Mbps 1 Hour(s) Yes Configuration Fee(IF Fee)+Traffic Fee 1 / Hour(s)
Rc	Billing Cycle	Hour							
Purchase Plan	Quantity	1 🗘	l instances. You can	rreate 9 more instance	es				

- 4. When satisfied with your selection, click **Buy Now**.
- 5. Confirm the order on the next page, and Activate to buy.
- 6. Return ECS web console by clicking **Console**, and you can see a public Elastic IP address has been allocated successfully.

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VPC	Elastic IP Addresses							
VPCs Route Tables	Create EIP Request Specific EIP Refresh Export Custom		Elastic IP Add	ivess 🗸	Enter an E	Biastic IP A	óðress	Q
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★ Elastic IP Addresses Elastic IP Addresses	Unbind Rehaze Remove from Internet Shared Bandodth							

7. Click **Bind** next to the new Elastic IP address and associate it to the previously launched ECS instance.

🔥 Note	
The instance must be stopped before the elastic IP address can be bound.	

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VPC	Elastic IP Addresses				
VPCs Route Tables	Create EIP Request Specific EIP	Refresh Export Custom		Electic I	P Address ~ Enter an Elastic IP Address Q
VSwitches	Instance ID/Name IP Address	Monitor Bandwidth	Charge Type(Al) Status(Al) 17	Sharad Bandwidth/Grobal Bind Instance	Instance Type(AI) 1/ Actions
Internet Shared Band Data Transfer Plan	60- bilpužkljuzpěttahs5gv 47.90.355.1	17 Internet 1 Maps Pay By Traffic	Pay-Ke-You-Se 10/15/2010, 10:17:55 • Available Created	Add to Shared Dandwidth Package Add to Octavil Acceleration	- Bind United Mare-
Elastic IP Addresses     Elastic IP Addresses	Unbind Reliease R	anove from Internet Shared Bandwidth			

8. Return to the ECS Console and the ECS instance shows the public IP address where you can access the virtual server instance from the Internet.

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Elastic Compute Serv	Instances	Operation reference     C     Oreate Instance
Overview	The security group does not have any custom rules for access permissions. In this case, you cannot access any instances in the security group. To resolve this issue, ad	to rules to allow access to the relevant instance ports. sg-twiskwizulmaitzndesf
Events	* Select an instance attribute or enter a keyword Q. Taga	Advanced Search 🚊 O
Tags	Instance ID/Name     Tag Monitoring Zone + IP Address Status + Network Type + Specifications	Billing Method + Actions
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Bastic Container In 🖸		
Dedicated Hosts	Start Stop Restart Reset Password Benew Switch to Subscription Release Mores	Tatal: 1 item(s), Par Page: 20 • item(s) 1

## Signing in to Your Server

## Accessing the Web Interface

### 🔒 Note

Internet Explorer is no longer supported. We recommend using Microsoft Edge or Google Chrome.

1. Open a web browser, and enter the public IP Address of the virtual server. See Step 8 in Purchase an Elastic IP Address to find the assigned IP address. A message may appear warning that the connection to the server is untrusted. This is normal, and you can safely continue.

2. Sign in to the Web Interface, using the haiadmin username and the default password as specified in the *Important Notice* document available on the Haivision Support Portal.

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	SIGN IN	

3. Click the **Sign In** button. A License Required modal appears. See Licensing Your Server to obtain a license.

For more details, refer to Signing into the Web Interface in the User's Guide.

## Accessing the Console UI

You can log in to virtual server's Console UI via a Secure Shell (SSH) client (e.g. Terminal in Mac OS X or PowerShell on Windows) using the SSH key pair you downloaded in Creating a Virtual Instance.

1. In Terminal or Powershell, enter the following command pointing to the SSH private key and public IP address of the virtual server:

ssh -i mysshkey.pem hvroot@my.ip.address

- 2. The Console UI appears.
- 3. In the navigation sidebar, use the ↑↓ (up and down arrow) keys to highlight menu items, and then press the **Enter** key.
- 4. Change settings as necessary.

### 🔥 Important

Network configuration settings are controlled by Microsoft Azure. Do not change them using the Haivision Console UI.

- 5. Press the **Enter** key to save your changes and return to the main screen.
- 6. Select Log Out and then press the Enter key to exit the Console UI.

## Licensing Your Server

Before creating routes in your virtual server, you must obtain a license from Haivision.

### 🔒 Note

Without a valid license key, you can sign in, but you cannot create or edit routes.

To obtain a license:

1. On the Licensing page that appears after clicking the **Add License** button, copy the server's MAC Address.



- 2. To request a license for your product:
  - a. Log in to the Haivision Support Portal (https://support.haivision.com).
  - b. After logging in, click License Requests.
  - c. Click the **New** button.
  - d. Select the appropriate device type and click the **Next** button.
  - e. Fill in the form with the appropriate information, and click **Save**.

Your license request is submitted and you will be contacted by a Haivision representative shortly with a license key for your product.

### 🔥 Note

The license you receive is bound only to the instance corresponding to the MAC address you submit.

- 3. After you receive your license, sign back in to the virtual server. You should be prompted with a License Required message. Click **Add License**.
- 4. Copy and paste the license for your server into the License field.
- 5. Click Update License.

Your virtual server is now licensed and available. For more information on licensing, please refer to the User's Guide.

## SRT Streams

Your virtual server can be used to receive and redistribute SRT streams. By default, on AliCloud all ports are open and no further configuration is needed within the AliCloud Console.

## 🔒 Note

For more information on SRT, please refer to the User's Guide and the SRT Deployment Guide.

## Stopping the Instance

You can stop and deallocate your server instance, while keeping all configurations active. After the instance is stopped, no further running charges are applied.

## 🔥 Important

Please be aware that simply *shutting down* your server via the Console UI does not deallocate your instance, and you will continue to be charged for the running instance. To avoid unwanted charges, you must stop the AliCloud virtual machine.

To stop your server instance:

1. On the ECS Management Console, click Instances.

- 2. Find and select your server, then click **Stop**.
- 3. Select whether to **Retain Instance and Continue Charging** or **No Charges After Instance Is Stopped**.

#### 🔥 Important

Selecting the latter option may result in a change in the MAC address the next time it is started, which causes the existing BYOL license to expire. If this happens, contact Haivision with the new MAC address to obtain a replacement license.

## **Obtaining Documentation**

This document was generated from the Haivision InfoCenter. To ensure you are reading the most up-todate version of this content, access the documentation online at https://doc.haivision.com. You may generate a PDF at any time of the current content. See the footer of the page for the date it was generated.

## Getting Help

General Support	North America (Toll-Free) <b>1 (877) 224-5445</b>	
	International 1 (514) 334-5445	
	and choose from the following: Sales - 1, Cloud Services - 3, Support - 4	
Managed Services	U.S. and International 1 (512) 220-3463	
Fax	1 (514) 334-0088	
Support Portal	https://support.haivision.com	
Product Information	info@haivision.com	