# Alibaba Cloud Quick Start Guide

Haivision Media Gateway 3.1 on Alibaba Cloud



This quick start guide describes how to create and configure a virtual Media Gateway server on Alibaba Cloud. For detailed configuration and operation information, please refer to the User's Guide. For the default credentials, refer to the *Important Notice* document (shipped with the appliance or available on the Haivision Support Portal).

# 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 instance(s) in this global network. For more information, please visit:

https://intl.aliyun.com

# About Media 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 and to obtain a license. See Licensing Your Server for details.

## **Creating a Virtual Media Gateway Server**

### Creating the VPC and Network Subnets

- 1. Sign in to your Alibaba Cloud account: https://home.console.aliyun.com
- 2. Click Products > Base Services > Networking > Virtual Private Cloud.

Θ	Home	Products +	۹	<b>Å</b> 18	Billing Management Support
Recent	y visit	Base services	Elastic Computing		Virtual Private Cloud
Elastic C	Compute Service DTplus		ApsaraDB		Server Load Balancer
		Security	Storage & CDN		Server Load Barancer
		Domains & Websites	Networking		Elastic IP Address
			Analysis		Express Connect
			Cloud Communica	tion	
			Monitor and Mana	gement	Alibaba Cloud CDN
			Application Service	es	
			AliCloud Mobile Se	ervices	
			Media Services		

3. In the VPC Manage Console, click **VPC**.

#### 4. Click Create VPC.

VPC				Idle East 1 (Dubai) Hong Ko	ng		Create VPC
Overview	US East 1 (Virginia) Germany 1						
VPC	China North 2 (Beijing) US We	st 1 (Silicon Valley)	China South 1 (Sh	enzhen)			
▼ Help Links	VPC ID/Name	CIDR	Status	Description	Created Time	Default VPC	Action
Elastic IP							
Product Docs			<li>In No rel</li>	ated records found			

5. Complete the details in the pop-up window and click **OK**.

Create VPC		×
*VPC name :		
	The name should be 2-128 characters. It should start with a letter in either the upper or lower case, or a Chinese character. It can contain digits, "_" or "-"	
Description :		
	The description can be empty, or contain 2- 256 characters. Cannot start with http:// or https://	
*CIDR :	192.168.0.0/16 💌	
	① Once created, the CIDR cannot be modified	
		OK Cancel

#### 🕕 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.

- 6. Click the link of the newly created VPC name to access the VPC details page.
- 7. Click VSwitch > Create VSwitch.

•	<	VSwitch list					You can only create 24 VS	witches at mo	est for one VPC	CRefresh	aate VSwitch
© ->	VPC details VRouter	VSwitch ID 🔻 Enter	the VSwitch ID for e	kact search	Search						
=	VSwitch	VSwitch ID/Name	ECS instance count	CEDR	Status	Zone	Available Private IPs	Created Time	Default VSwitch	Description	Action
*					① No relate	ed records f	ound				
(5) 201											

- 8. Complete the details in the pop-up window and click **OK**. The CIDR block for this subnet must be a subset of the CIDR block of the VPC defined in Step #5.
  - In this example 192.168.1.0/24 is contained within 192.168.0.0/16
  - All ECS instances created within this subnet have their private addresses assigned out of this subnet address range.

Create VSwitch			$\times$
*Name :			
	The name should be 2-128 characters. It should start with a letter in either the upper or lower case, or a chinese character. It can contain digits, "_" or "-"		
*VPC :	vpc-bp1se9wt6emxdgnphmbhl		
VPC CIDRBlock :	192.168.0.0/16		
*Zone :	Please select 🔻		
	① It cannot be modified after being created		
*CIDR :			
	It cannot be modified after being created It must be equal to or belong to the VPC CIDR. The subnet mask must be between 16 and 29. E.g., 192.168.1.0/24		
Available Private IPs :	0 IPs		
Description :			
	The description can be empty, or contain 2- 256 characters. Cannot start with http:// or https://		
		ОК	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 Products > Base Services > Elastic Computing > Elastic Compute Service.

C-) Home	Products 🔺	۹ 🔺 💶	Billing Management Support
Recently visit	Base services	Elastic Computing	Elastic Compute Service
Virtual Private Cloud	DTplus	ApsaraDB	Mintual Drivinta Claud
Elastic Compute Service	Security	Storage & CDN	Virtual Private Cloud
clastic compute service	Domains & Websites	Networking	Server Load Balancer
		Analysis	Auto Scaling
		Cloud Communication	
		Monitor and Management	Container Service
		Application Services	Resource Orchestration
		AliCloud Mobile Services	
		Media Services	

2. On the ECS Management Console, click Instances.

### 3. Click Create Instance.

=	Elastic Compute Serv	Instance List	China South 1 (Shenzh	en) Singapore China No	rth 1 (Qingdao)	т	utorial C Refre	h Create Instance
0	Overview		China North 2 (Beijing)	China East 2 (Shanghai)	US East 1 (Virginia)	Hong Kong		
=	Instances			Asia Pacific SE 2 (Sydney)				
-	Disks		Germany 1 (Frankfurt)	Asia Pacific NE 1 (Japan)	US West 1 (Silicon Va	llery)		
*	<ul> <li>Snapshots</li> </ul>	Instance Name	<ul> <li>Input Instance I</li> </ul>	Name for fuzzy query	Search 👀	ag		≥ 0
٩	Snapshots	Instance II	0/Name Monitor 2	Zone IP Address Status(A	NI) - Network Type(	All) + Configu	ration Payment	Method (All) + Action
	Auto Snapshot policy			<ol> <li>Could not find an</li> </ol>	v record that met	the condition		
1	Images			Courd Hot Hind an	y record that met	ure condition		

- 4. Click Advanced Purchase.
- 5. Specify the details of your ECS purchase as follows:
  - In Choose Pricing Model, click **Subscription**.
  - In Choose the Datacenter Region and Zone, select the same Datacenter Region and Zone used when you created the Virtual Private Cloud in Creating the VPC and Network Subnets.
  - In Choose Network Type, click **VPC** as the Network Type, and select the VPC and VSwitch that was created in Creating the VPC and Network Subnets.

### 🚺 Note

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

• In Choose the Operating System, click **Marketplace Image** and select **Haivision Media Gateway** in the list of images. Use the search textbox to quickly find the image.

### 🕕 Note

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

- In Security Setup, specify the password for the root/administrator account for initial sign-in to the instance.
- In Purchase Plan, specify an instance name for easy management. You may choose to launch multiple ECS instances simultaneously, all with the same server specifications.

A summary is shown at the bottom of the ECS purchase page, as well as its associated cost. 6. When satisfied with your selection, click **Buy Now**.

Region	US East 1 (Virginia) (US East 1 Zone A)	
Configuration	I/O Optimized 2-core, 4 GB (General type n1)	
Operating System	Haivision Media Gateway (BYOL)	
Data Disk	1 disk(s) SSD Cloud Disk (100GB);	
Network	Bandwidth 1 Mbps (VPC)	
Number	1 Month(s) X 1 Unit(s)	
Instance cost	Marketplace image fee Internet traffic fee	

7. Click Place Order to confirm your order.

	Confirm order		Pay			Order complete	
Product name	Instance configuration	Payment method	Subscription type	Number	Discount (2)	Fee	
ECS	Region: US East 1 (Virginia) I/O Optimized: IO optimized instance Instance type: 2-core, 4 68 Network Type: VPC Bandwidh: Nhop (lota transfer usage) OS: Halvision Media Gateway (BYOL) 1.4.2 System Disk-4068 Uhrs Cloud Disk Data Disk: 10068 (SSD Cloud Disk, Release with instance) Instance Name: MGtest Autorenew: Yes Server Guart: Yes Prompt : If you select 1M bandwidth or above, a public IP will be distributed, which is unable to unibud.	Subscription	1 Month	1 unit(s)	•	<mark>\$52.33 USD</mark> Public traffic fee: \$ f	1.076 USD/GB
Marketplace Image	Image Name: Haivision Media Gateway (BYOL) 1.4.2 Region: US East 1 (Virginia) Image ID: m-0xi0asvbejtzxddnmar Supplier Name: Haivision Systems Inc.	Pay-As-You-Go	-	1 unit(s)	-	\$0.00 USD /Hour	
						Price:	\$ 52.33 USI
			<b>V</b> E	nd User Licens	e Agreement 🔽	ECS Service Terms	🧹 General Tern

- 8. Click **Pay** to confirm your order with the payment method you have on file.
- 9. 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 a Public IP Address to purchase a public Elastic IP address.

Overview								C Refresh	Create In	istance
Instances	Instance Name \$	Input instan	ce name for fuzz	query	Search	●标签				<u>×</u> 0
Disks	Instance ID/Name	Monitor	Belonging Zone	IP Address	Status(All)	Network Type(All) 👻	Configuration	Payment Method (All) +		Action
Snapshot	VPN_NAT_Instance		Singapore Zone A	192.168.1.1 (private)	Running	Virtual Private Cloud	CPU: 2 Core(s) Memory: 4096 MB (I/O optimized)	Pay-As-You-Go 16-06-07 10:36created	Manage	More -
Auto Snapshot policy	Start Stop	Restart	Reset Passw	ord Releas	e Setting	More.	Total: 1 item(s), Per Pa	ge: 20 item(s)	1	

### Purchase a Public IP Address

- 1. Click Products > Base Services > Networking > Elastic IP Address.
- 2. Click Request Elastic IP.

≡	IP management consol	
	1P management consol	Elastic IP list China East 1 (Hangzhou) Singapore Asia Pacific SE 2 (Sydney)
0	Elastic IP	Middle East 1 (Dubai) Hong Kong US East 1 (Virginia) Germany 1 (Frankfurt)
		China East 2 (Shanghai) Asla Pacific NE 1 (Japan) China North 2 (Beijing)
		US West 1 (Silicon Valley) China South 1 (Shenzhen)
_		
\$		Elastic IP address V Enter the elastic IP address for exact search Search
-		Instance ID IP address Monitor Bandwidth Payment Method (All) + Status(All) + Instance bound Instance type Actions
		Instance in the address monitor equividin regiment method/with a states/with a turner point turner type actions
(\$)		① Could not find any record that met the condition.
		Courd not this any record that the condition.

- 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.

C-	Alibaba Cloud					Console	Help Center	Log Out
stic IP								
							Purchase Lis	t o
Region:	China North 2	China East 1	Hong Kong	China South 1	China East 2			
	Singapore	US West 1	US East 1	Japan	Middle East 1		Current Sele	cted
	Asia Pacific SE 2	EU Central 1					Region:	Singapore
							Network traffi	c:By traffic
Network trai	fic: By traffic						Max bandwid.	
				_			Billing cycle: eip rentalfee:	
Max bandwi	dth:	50Mbps	100Mbps	200Mbps    200 M	lbps 🌲			Configuration fee(IP
							-	Traffic fee
							Quantity:	1
Billing cycle	Hour						Fee	-
							\$ 0.00	6 /hour(s)
							Public Traffic	
Quantity:	1 \$						\$ 0.11	7 /GB
							Buy No	w Add To

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

- 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.

IP management console	Elastic IP list Singapore South Chi	na 1 North China 2 East C	hina 2 USA East 1	CN Hongkong East	st China 1 USA	West 1 C Refresh	Request	Elastic IP
Elastic IP	Elastic IP address \$ Enter the elastic I	P address for exact se	irch					<b>第</b> 49年
	Instance ID IP address	Monitor Bandwidth	Status(All) +	Instance bound	Instance type	Created time		Action
	eip-221114krj 47.88.155.117	Pay by traffic 200Mbps	Available			2016-06-02 00:39:40	Bind	Unbind More
	Unbind Release				Total: 1 item(s),	Per Page: 10 item(s) =	+ 1	

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

P management console	Elastic IP list	ingapore South Ch	hina 1 North	China 2 East Cr	nina 2 USA East 1	CN Hongkong	East China 1 USA	West 1 C Refresh	Reques	t Elastic IP
Elastic IP										
	Elastic IP address	Enter the elastic	IP address fo	r exact se Sear	ich					<b>≥</b> 零出
	Instance ID	IP address	Monitor	Bandwidth	Status(All) +	Instance bound	Instance type	Created time	_	Action
	eip-22114krj	47.88.155.117	R	Pay by traffic 200Mbps	Available			2016-06-02 00:39:40	Bind	Unbind
	C Unbind	Release					Total: 1 item(s),	Per Page: 10 item(s)	. 1	

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

				Create Instance
Overview				
Instances	Instance Name   Input Instance name	ne for fuzzy query Search 冬根签		× *
Disks	Instance ID/Name Monitor Zone	nging Status(All) Network e IP Address + Type(All) + C		Nayment Method Mi) - Actic
<ul> <li>Snapshot</li> <li>Snapshots</li> <li>Auto Snapshot policy</li> </ul>	□ i-221hata0g VPN_NAT_Instance 🤇 🗠 Singu Zone	A 192 168 1 1 Russing Cloud (	/O optimized) 16	tay-As-You-Go 6-06-07 Manage More 0:36created
Images	Start Stop Restart Res	set Password Release Setting More.	Total: 1 item(s), Per Page: 20	item(s) 1

## Signing in to Media Gateway

- 1. Open a web browser, and enter the public IP Address of the virtual Media Gateway server. See Step 8 in Purchase a Public IP Address to find the assigned IP address. A message may appear warning that the connection to the Media Gateway server is untrusted. This is normal, and you can safely continue.
- 2. Sign in to the Media Gateway Web Interface, using the haiadmin username and password that you defined when creating the instance. (See the Security Setup bullet in Step 5 in Creating a Virtual Instance.)

۲	<b>lai</b> vision Media Gateway
	Username
	Sign In

3. Click the Log In button. The Browse Routes screen appears.

For more details, refer to Accessing Media Gateway in the Media Gateway User's Guide.

## **Licensing Your Server**

### 🕕 Note

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

### To obtain a license:

- 1. Sign into the Media Gateway as described in Signing in to Media Gateway.
- 2. Click the  $\equiv$  icon and click Administration.
- 3. Click **System Settings** in the admin toolbar, and click **Network** in the sidebar.
- 4. Copy the server's MAC Address.

Interfaces	
eth0 BOND I	
Addressing	○ None ● Static ○ DHCP
IP Address	10.69.12.156
Subnet Mask *	255.255.254.0
Gateway	10.69.12.1
МТО	1500
MAC Address	
Link	O Auto O Manual

- 5. 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 Media Gateway instance corresponding to the MAC address you submit.

- 6. After you receive your license, sign back in to the Media Gateway server. You should be prompted with a License Required message. (Otherwise, click the **=** icon, click **Administration**, click **System Settings** in the admin toolbar, and click **Licensing** in the sidebar). Click **Add License**.
- 7. Copy and paste the license for your server into the License field.
- 8. Click Add.

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

## SRT Streams

### \rm 1 Note

For more information on SRT, please refer to the *Media Gateway Administrator's Guide* and the *SRT Deployment Guide*, available from the Haivision Support Portal.

## Stopping the Instance

### Important

Please be aware that simply *shutting down* your Media Gateway 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 Media Gateway server instance:

- 1. On the ECS Management Console, click Instances.
- 2. Find and select your server, then click **Stop**.

### Important

It is possible that shutting down an AliCloud instance results 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 <a href="https://doc.haivision.com">https://doc.haivision.com</a>. 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		