

Alibaba Cloud Quick Start Guide

Haivision Media Gateway 3.0 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 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 is ideal for transporting high-quality, secure live video across public and private networks. For more information, please visit:

<https://haivision.com/products/haivision-media-gateway>

Before You Start

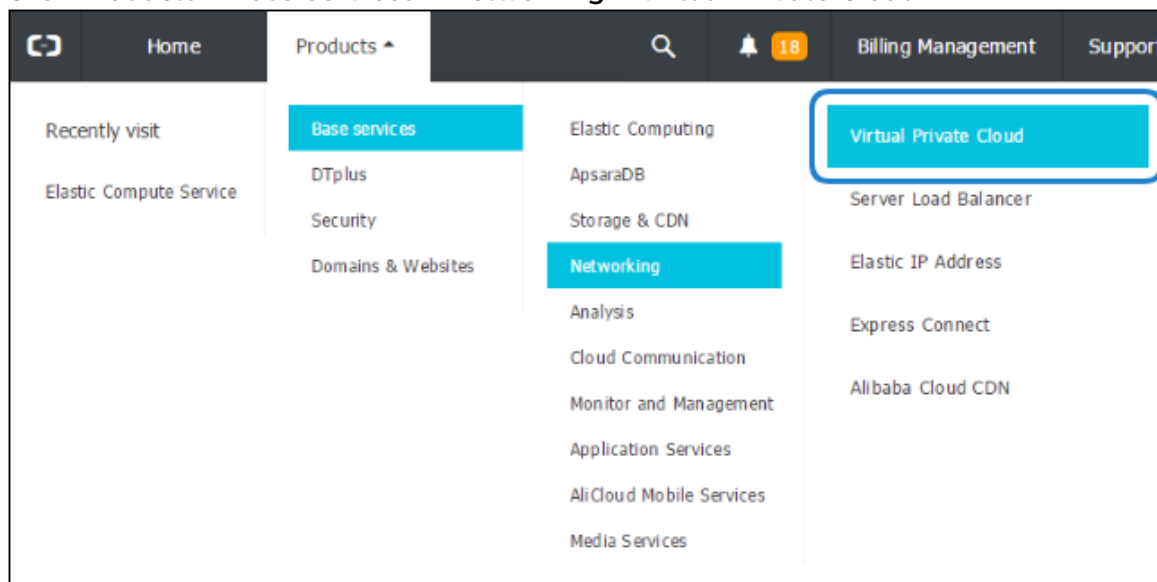
You must have an active Alibaba Cloud account to sign in to the AliCloud Console. For evaluation purposes you can subscribe to Alibaba Cloud for a 30-day trial period. For more information, please visit: <https://intl.aliyun.com/campaign/free-trial>

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.

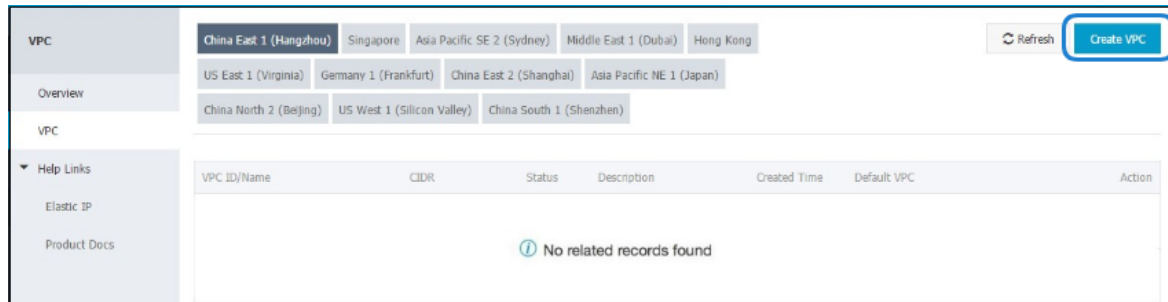
Creating a Virtual Media Gateway Server

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**.



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



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

The screenshot shows the 'Create VPC' pop-up window. It contains the following fields and options:

- *VPC name :** A text input field with a note: "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 :** A text input field with a note: "The description can be empty, or contain 2-256 characters. Cannot start with http:// or https://"
- *CIDR :** A dropdown menu showing "192.168.0.0/16". A note below it says: "Once created, the CIDR cannot be modified"

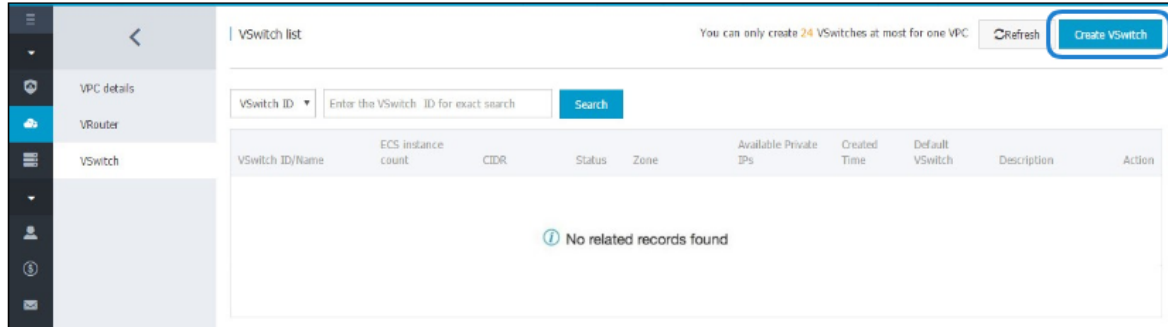
At the bottom of the window are 'OK' and 'Cancel' buttons.

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**.



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

*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 CIDRBlock :

*Zone :
ⓘ 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 :

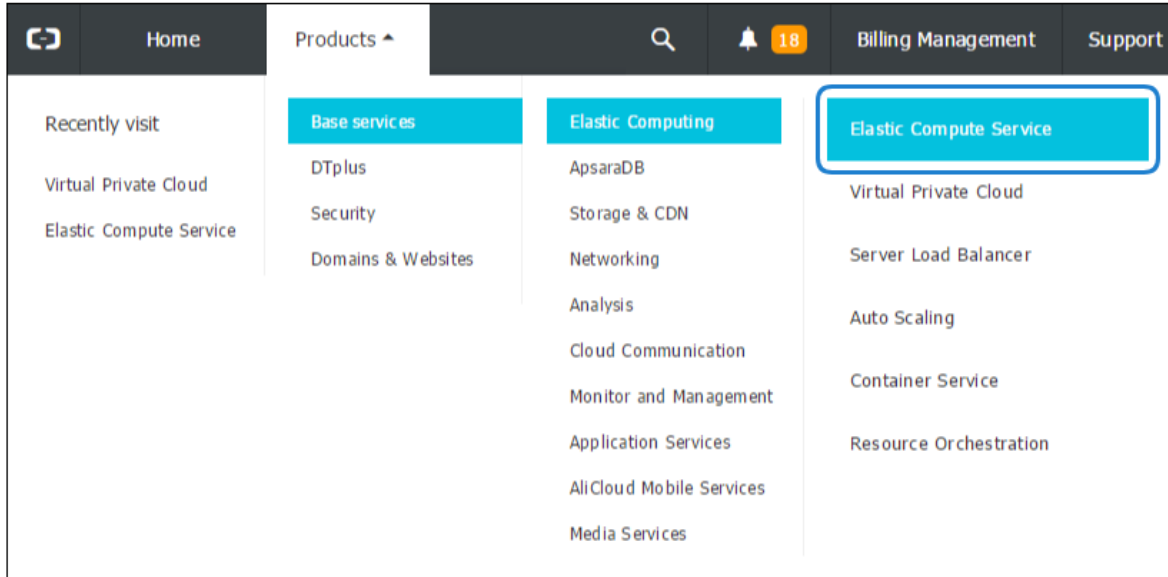
Description :
The description can be empty, or contain 2-256 characters. Cannot start with http:// or https://

Note

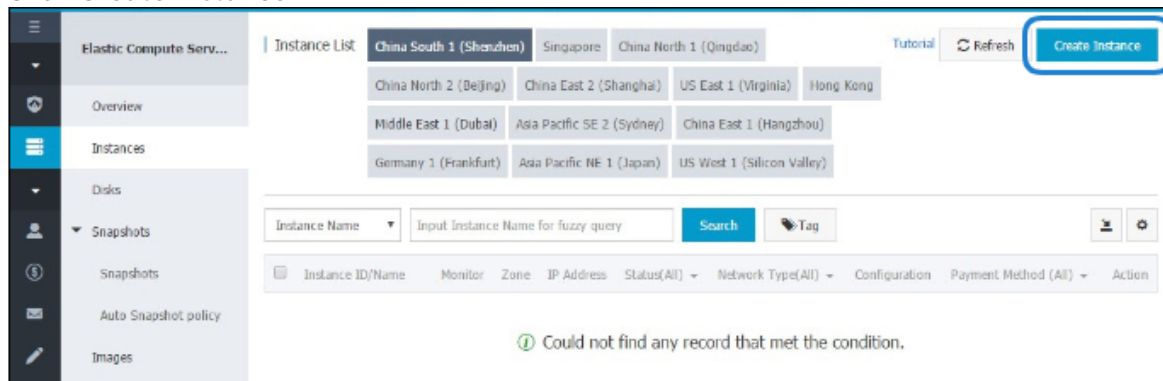
In AliCloud all subnets are considered private subnets unless there is an Elastic IP assigned to an ECS running inside that particular subnet.

Creating a Virtual Instance

1. Click **Products > Base Services > Elastic Computing > Elastic Compute Service**.



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



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**.

Overview

- 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

\$52.33 USD + \$0.00 USD/hour + \$0.0760 USD/GB

Add To Cart **Buy Now**

7. Click **Place Order** to confirm your order.

Confirm order Go back

Confirm order Pay Order complete

Product name	Instance configuration	Payment method	Subscription type	Number	Discount	Fee
ECS	Region: US East 1 (Virginia) I/O Optimized: I/O optimized instance Instance type: 2-core, 4 GB Network Type: VPC Bandwidth: 1Mbps (Data transfer usage) OS: Haivision Media Gateway (BYOL) 1.4.2 System Disk: 40GB Ultra Cloud Disk Data Disk: 100GB (SSD Cloud Disk, Release with instance) Instance Name: MGtest Auto-renew: Yes Server Guard: Yes Prompt: If you select 1M bandwidth or above, a public IP will be distributed, which is unable to unbind.	Subscription	1 Month	1 unit(s)	-	\$52.33 USD Public traffic fee: \$ 0.076 USD/GB
Marketplace Image	Image Name: Haivision Media Gateway (BYOL) 1.4.2 Region: US East 1 (Virginia) Image ID: m-0x10asvbejtzddnmar Supplier Name: Haivision Systems Inc.	Pay-As-You-Go	-	1 unit(s)	-	\$0.00 USD /Hour

Price: \$ 52.33 USD

End User License Agreement ECS Service Terms General Terms

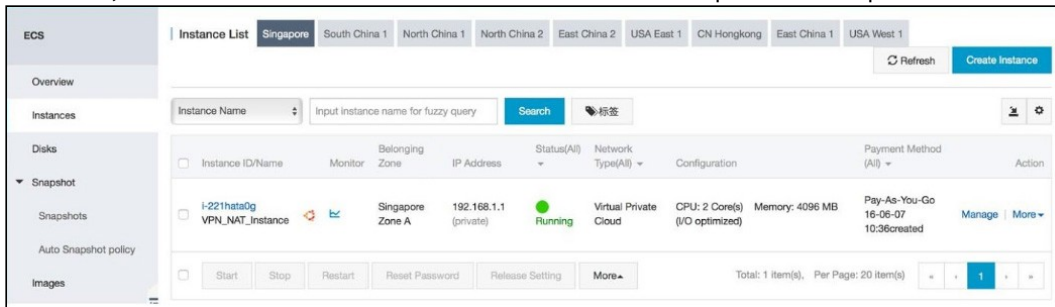
Place Order

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**.

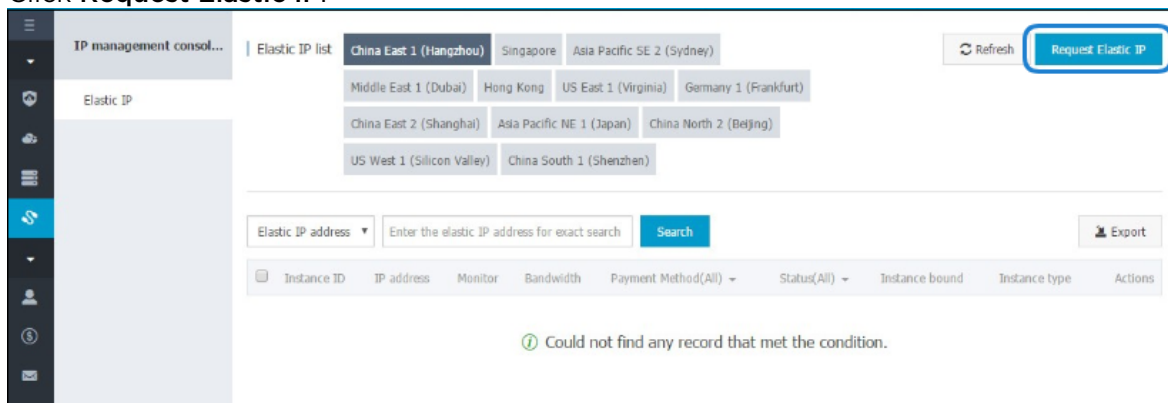
In the ECS console, within a few minutes the ECS instance status changes to Running. Note that the ECS instance only has a private IP address for now, as shown in the following figure. To connect to this

instance, continue to [Purchase a Public IP Address](#) to purchase a public Elastic IP address.



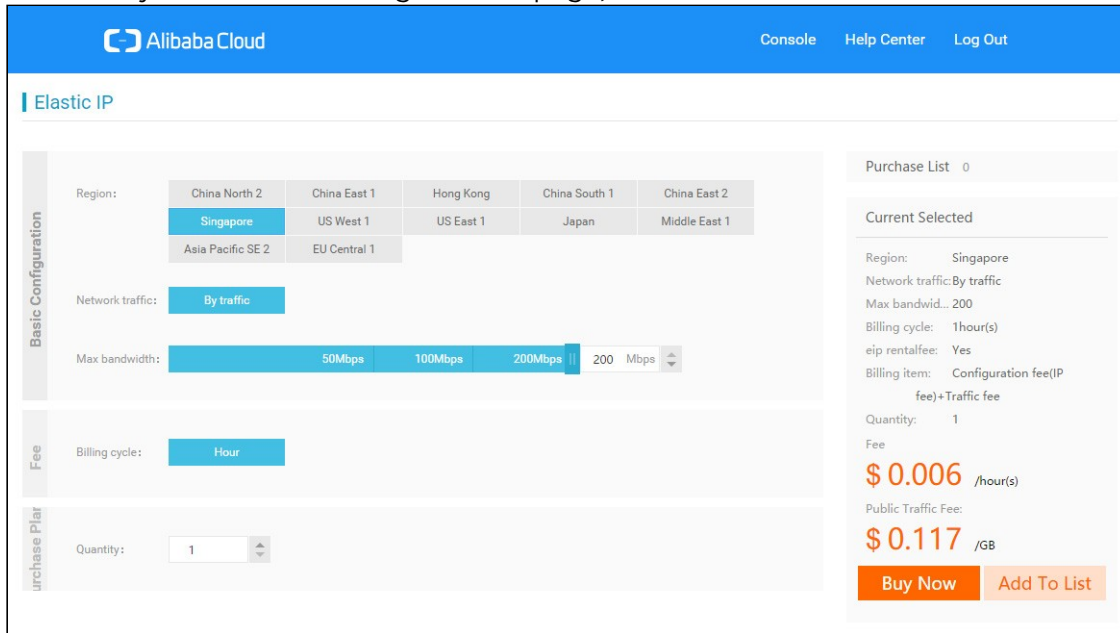
Purchase a Public IP Address

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

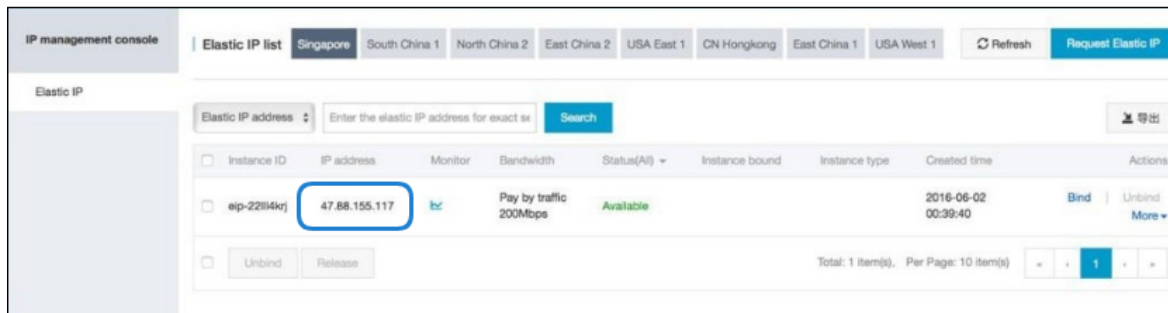


3. In the window that opens, select the options accordingly to the following:
 - In Network Traffic, click **By traffic**.
 - In Max Bandwidth, the value of 200 Mbps is the peak value, not the dedicated fixed bandwidth. This means you can enjoy up to 200-Mbps internet bandwidth, but paying for the actual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

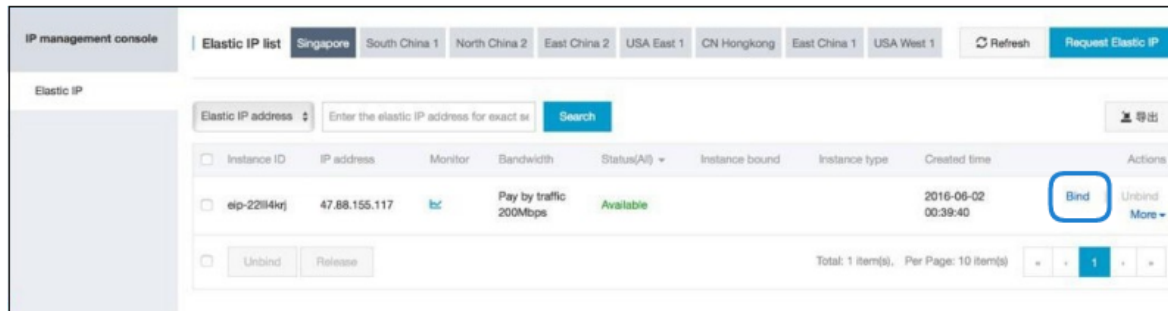
A summary is shown on the right of the page, as well as its associated cost.



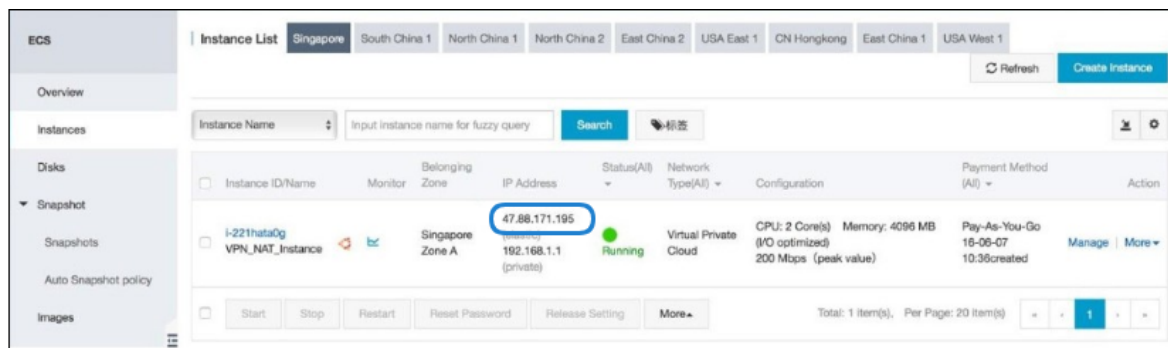
4. When satisfied with your selection, click **Buy Now**.
5. Confirm the order on the next page, and **Activate** to buy.
6. Return ECS web console by clicking **Console**, and you can see a public Elastic IP address has been allocated successfully.



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

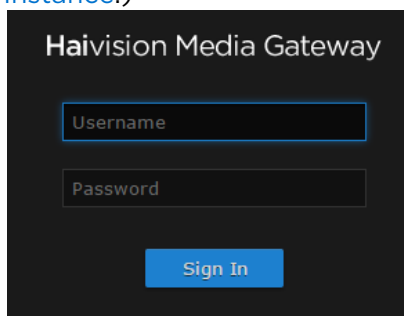


8. Return to the ECS Console and the ECS instance shows the public IP address where you can access the Media Gateway virtual instance from the Internet.



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](#).)



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*.

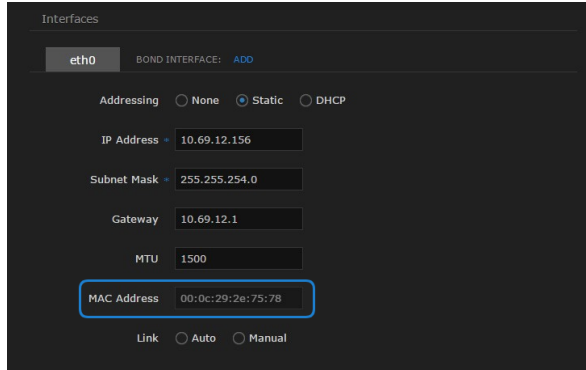
Licensing Your Server

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  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 INTERFACE: ADD

Addressing None Static DHCP

IP Address 10.69.12.156

Subnet Mask 255.255.254.0

Gateway 10.69.12.1

MTU 1500


MAC Address 00:0c:29:2e:75:78

Link Auto Manual

5. To request a license for your product:
 - a. Log in to the [Haivision Support Portal](https://support.haivision.com) (<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

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-to-date 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	<p>North America (Toll-Free) 1 (877) 224-5445</p> <p>International 1 (514) 334-5445</p> <p><i>and choose from the following:</i> Sales - 1, Cloud Services - 3, Support - 4</p>
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