

Microsoft Azure Quick Start Guide

Haivision Media Gateway 3.1 on Microsoft Azure



This quick start guide describes how to create and configure a virtual Media Gateway server on Microsoft Azure. 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 Microsoft Azure

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

<http://azure.microsoft.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 Microsoft Azure account to sign in to Azure Portal. For evaluation purposes you can subscribe to Azure for a trial period. For more information, please visit: <http://azure.microsoft.com/en-us/pricing/free-trial/>

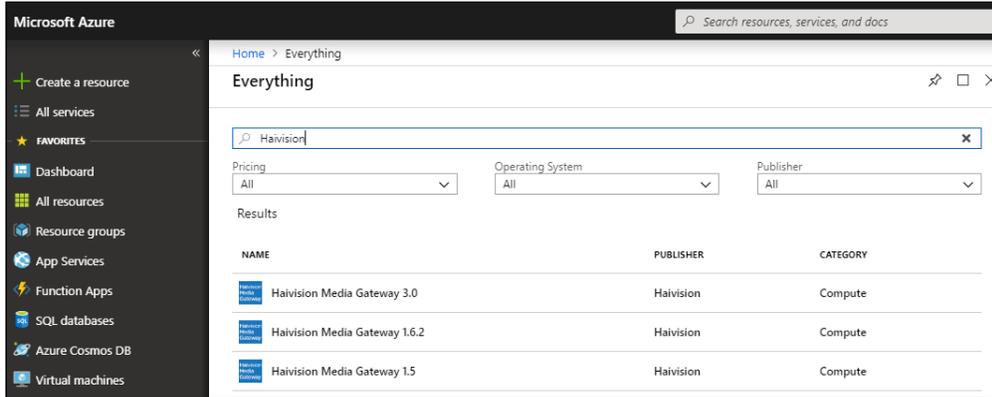
With Microsoft Azure, you must "bring your own license" (BYOL) for the Haivision Media Gateway. You can choose from different licensing options for Media Gateway. Please contact your Haivision representative to discuss your options and to obtain a license. See [Licensing Your Server](#) for details.

Creating a Virtual Media Gateway Server

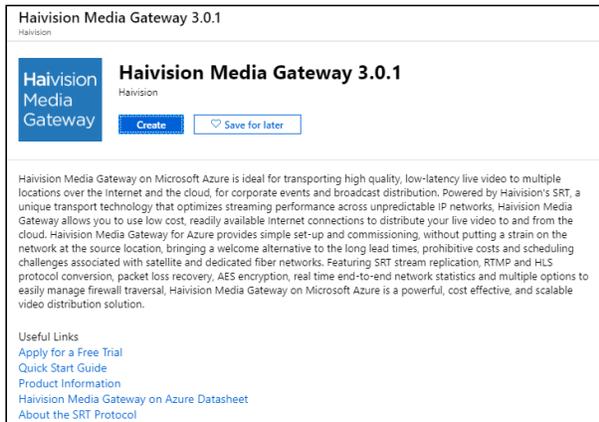
1. Sign in to your Azure account: <https://portal.azure.com>
2. After you have successfully signed in to the Azure portal, click **+ Create a Resource**.

3. **Note**

Multiple HMG versions may be available in the Azure Marketplace. We recommend using the latest version, unless interoperating with Haivision Media Platform where the version is dependent on the HMP version.



4. Click **Create**.



Setting Up Your Media Gateway Server

To set up your virtual Media Gateway server, complete each of the sub-sections as described below.

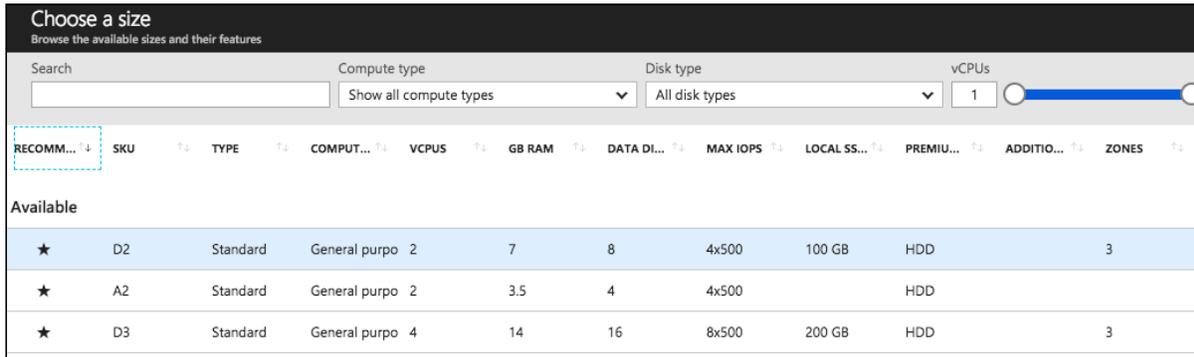
Basics

1. **Note**
The name must be composed of the characters a-z and/or 0-9.
 2. **Note**
SSH access to the Media Gateway’s Console UI is only allowed via SSH public key. After deploying the virtual Media Gateway server, you can use this console to enable access for other administrators by uploading their public keys. You can generate an OpenSSH public key with tools like ssh-keygen on Linux and OS X, or PuTTYgen on Windows. For details, see <https://docs.microsoft.com/en-us/azure/virtual-machines/linux/ssh-from-windows> and <https://docs.microsoft.com/en-us/azure/virtual-machines/linux/mac-create-ssh-keys>.
 3. Copy and paste your public SSH key into the SSH public key field. Never share the private key.
 4. For Subscription, specify a subscription plan.
 5. For Resource Group, type a name for it in the corresponding field. (To select an existing resource group, click **Select existing**, and then click the arrow to reveal existing resource groups.) For more information on resources, visit: <https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-portal>
- Note**
The resource group must be composed of the characters A-Z, a-z, 0-9, period(.), hyphen (-), and/or underscore (_).

6. Select a Location, corresponding to the geographical region closest to the ingest source and/or egress source of your virtual Media Gateway server. This ensures the lowest latency for your Media Gateway traffic.
7. When you are satisfied with your settings, click **OK**.

Infrastructure Settings

1. In the Infrastructure Settings section, choose from the recommended pricing tiers (D2, D3, A2 Standard, etc.) and click **Select**. For details see: <http://azure.microsoft.com/en-us/pricing/details/virtual-machines/>



Note
 Currently, we only recommend pricing tiers D2 and D3. Using tiers with lower CPU resources may result in poor performance.

2. If desired, choose a Public IP address.
3. Enter a Domain Name Label prefix. If specified, a DNS record is created for the public IP, using this prefix plus the cluster location’s FQDN.
4. When you are satisfied with the settings, click **OK**.

Summary

1. Review your settings in the Summary section. You can go back to previous sections to make any necessary changes or corrections. When you are satisfied with the summary, click **OK**.

Buy

1. In the Buy section, review and accept the terms and conditions, then click **Create** to proceed.
2. The Azure portal Dashboard page reappears, adding the following item to the dashboard.

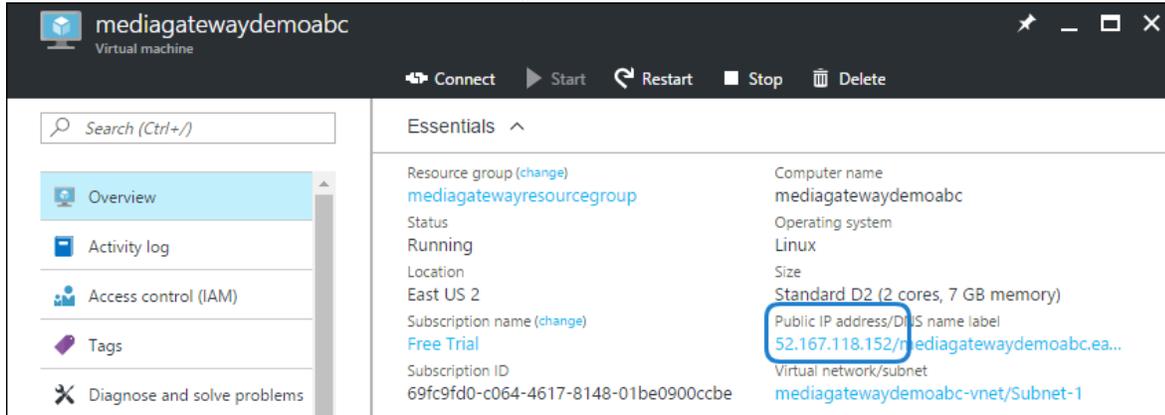


3. Creating your server instance can take several minutes. Click **Notifications** to see the status. Once the instance is reporting "Running", you can sign in.

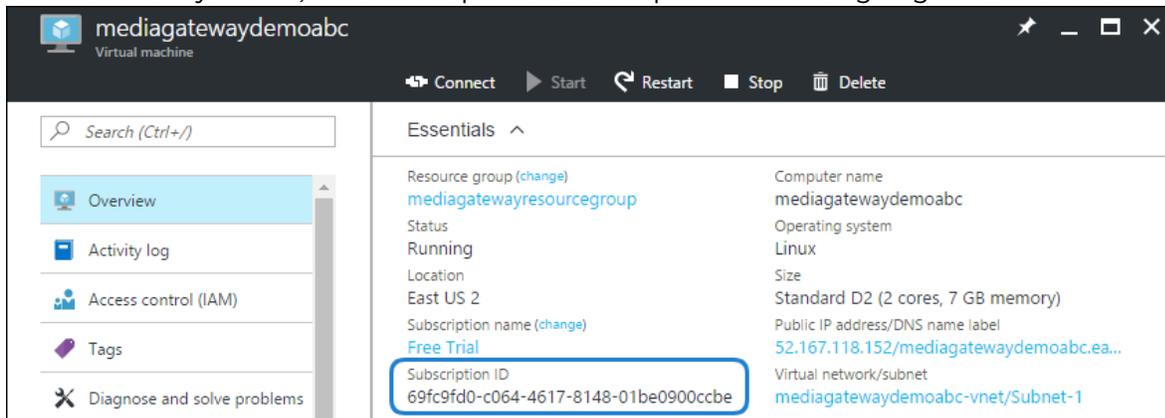
Signing in to Media Gateway

Accessing the Web Interface

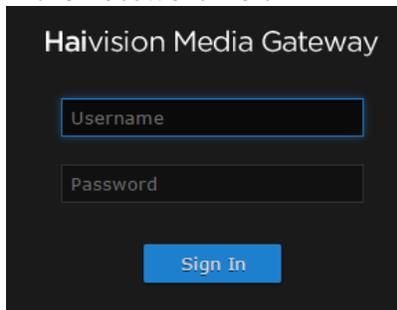
1. You need certain information from the Azure portal page to sign in to your Media Gateway server. We suggest opening a separate tab in your browser.
2. In the Azure portal browser tab, in the dashboard under All Resources, click on the Media Gateway virtual machine resource. Find and copy the server's Public IP Address.



3. In a new browser tab, paste the Public IP Address into the URL bar. A message may appear warning that the connection to the Media Gateway server is untrusted. This is normal, and you can safely continue. The sign-in screen of your Media Gateway server appears.
4. In the Azure portal browser tab, find and copy the server's Subscription ID. On first start up of your Media Gateway server, the Subscription ID is the password for signing into the web interface.



5. In the Media Gateway browser tab, enter haiadmin as the User Name, and paste the Subscription ID in the Password field.



6. Click the **Sign In** button. The Browse Routes screen appears.

Note

Please contact Haivision Technical Support to obtain a valid license key if needed. Without a valid license key, you can sign in, but you cannot create or edit routes.

For more details, refer to [Accessing Media Gateway in the Media Gateway User's Guide](#).

Accessing the Console UI

Note

You must have a private RSA key corresponding to the public key with which the virtual Media Gateway server was configured. See the "Basics" heading in [Setting Up Your Media Gateway Server](#).

1. In a terminal window, enter the following command:

```
ssh -i ~/.ssh/<private-key_rsa> hvroot@<public-ip-address>
```

For instructions on specifying a private key on PuTTY for Windows, see the AWS documentation at: <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html>
The Media Gateway Console UI appears.

2. In the navigation sidebar, use the ↑↓ (up and down arrow) keys to highlight menu items, and then press the **Enter** key.

Important

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

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

For more details, refer to [Using the Console UI with Haivision Hardware](#).

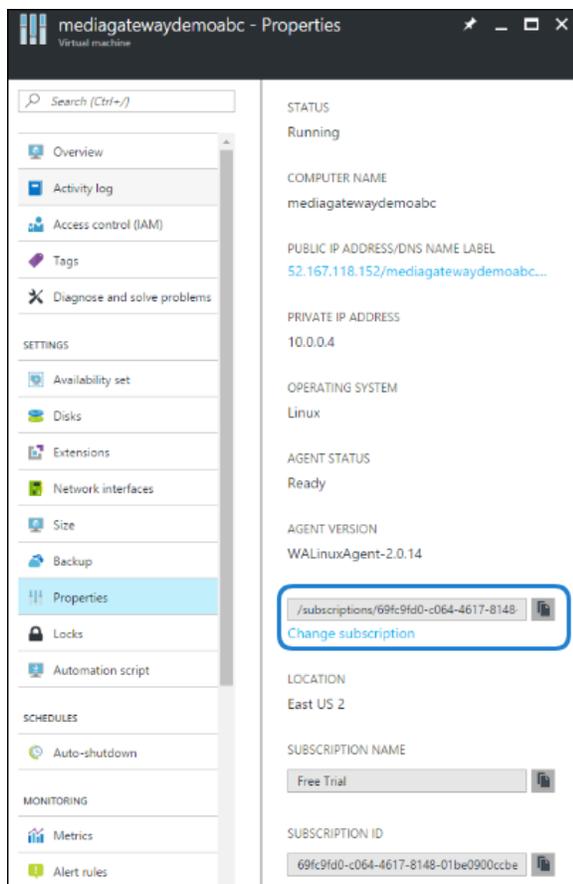
Licensing Your Server

Note

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

To obtain a license:

1. On the Azure portal dashboard under All Resources, click on the virtual machine resource.
2. Under Settings, click **Properties**.
3. Copy the Resource ID.



4. 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 Resource ID you submit.

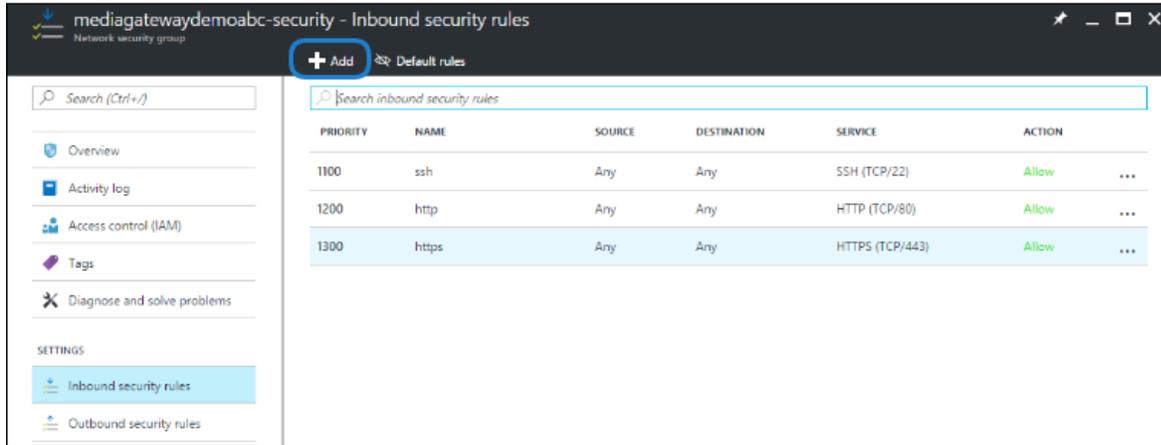
5. After you receive your license, sign in to the Media Gateway server. You should be prompted with a License Required message. (Otherwise, click the  icon, click **Administration**, click **System Settings** in the admin toolbar, and click **Licensing** in the sidebar). Click **Add License**.
6. Copy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

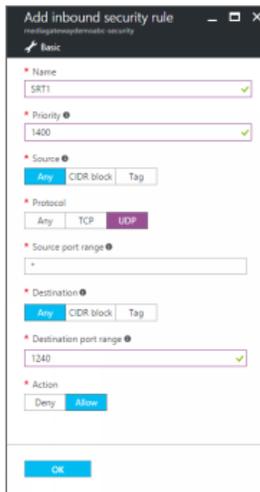
Modifying Network Security Rules

Your virtual Media Gateway server can receive and redistribute SRT streams. You must first verify that the Security Group is set to your network configuration, and you must open a UDP Port for your network if you want to use SRT Listener mode.

1. In the Microsoft Azure portal dashboard, click on the Media Gateway network security group. The name is of the form `<given name of your instance>-security`.
2. Under Settings, click **Inbound Security Rules**.
3. Click **+Add** to add a new security rule for incoming UDP traffic for SRT listener.



4. Click **Advanced**.



5. Enter a new Name for the inbound security rule (e.g. SRT1).
6. Enter a Priority for handling rule execution on incoming network packets. The default value is usually acceptable.
7. Under Source, click **Any**.
8. Under Protocol, click **UDP**.
9. Enter "*" in the Source Port Range field.
10. Under Destination, click **Any**.
11. Specify a Destination port range corresponding to the ports you wish to use for SRT streaming.
12. Under Action, click **Allow**.
13. Click **OK** to activate this rule.

Note

For more information on SRT, please refer to the [Media Gateway User's Guide](#) and the *SRT Deployment Guide*, available from the Haivision [Support Portal](#).

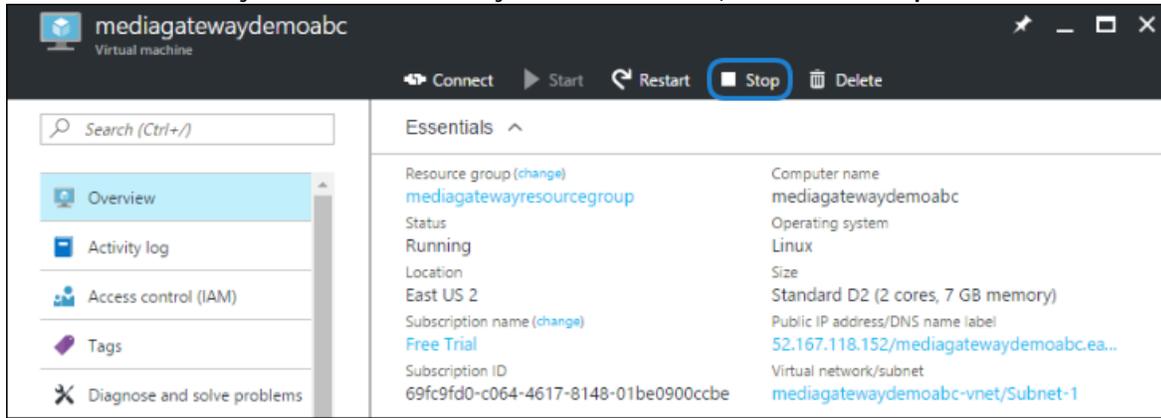
Stopping the Instance

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 virtual machine.

To stop your Media Gateway server instance:

1. Navigate to Virtual machines in the Azure portal.
2. Find and click on your Media Gateway virtual machine, then click **Stop**.



Obtaining Documentation

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Getting Help

<p>General Support</p>	<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>
<p>Managed Services</p>	<p>U.S. and International 1 (512) 220-3463</p>
<p>Fax</p>	<p>1 (514) 334-0088</p>

Support Portal	https://support.haivision.com
Product Information	info@haivision.com