# Technical white paper

# HPDM & Amazon EC2 Deployment Guide



**HP Device Manager 4.7 SP3** 

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#### **Overview**

HP Device Manager (HPDM) is a device management tool capable of working in many different complicated environments. You can configure your firewall to enable deployment of HPDM in a cloud, and then use HPDM in the cloud to manage HP devices. This document covers deploying HPDM in Amazon Elastic Compute Cloud (EC2).

#### Note

Make sure that your Amazon account has the necessary privileges, and that you have created your Amazon EC2 instance before deploying HPDM. For more information on creating an Amazon account, see Amazon documentation.

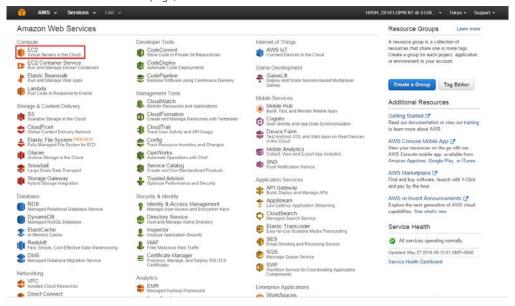
### **Deploying HPDM on Amazon EC2**

To deploy HPDM in Amazon EC2 and manage HP devices:

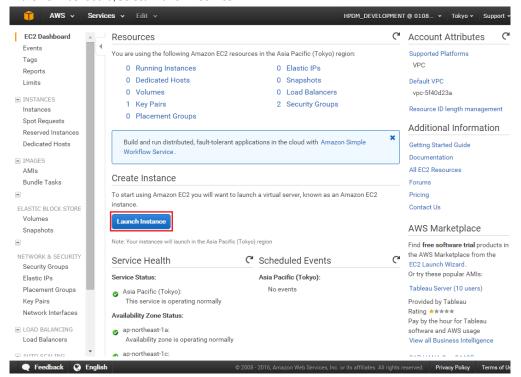
- 1. Create an Amazon EC2 instance. See Amazon documentation. See Creating an Amazon EC2 instance.
- 2. Install HPDM. See Installing HPDM and HPDM Embedded HTTPS Server.
- 3. Configure the security groups. See Configuring the security groups.
- 4. Launch the Amazon EC2 instance.

#### **Creating an Amazon EC2 instance**

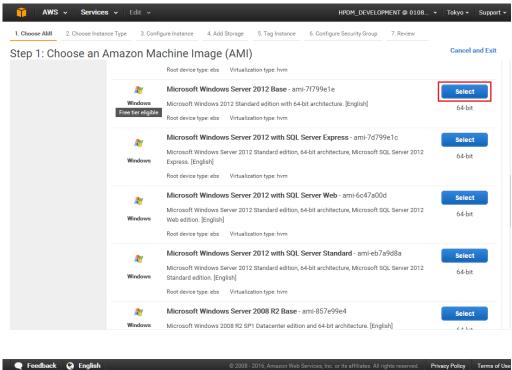
- 1. Go to <a href="http://aws.amazon.com/">http://aws.amazon.com/</a> and log on to your Amazon account.
- 2. On the Amazon Web Services page, select **EC2**.



3. In the EC2 Dashboard, select Launch Instance.



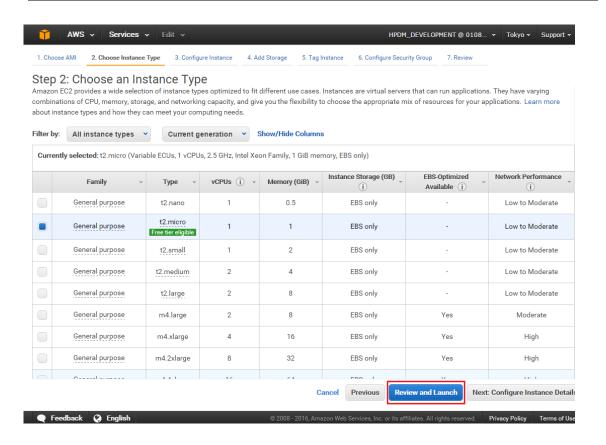
Choose an available Amazon Machine Image (AMI), and then click Select.



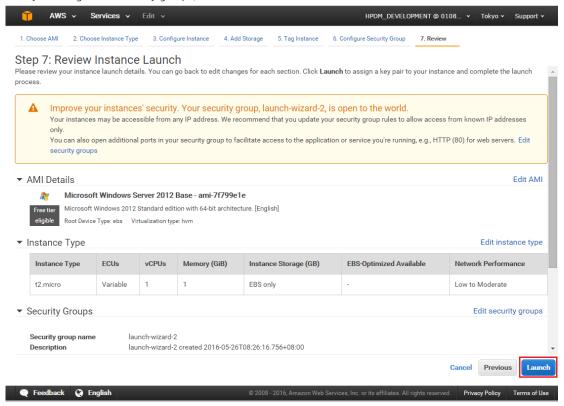
5. Choose an instance type, and then select **Review and Launch**.

#### Note

Before completing step 6, configure the security groups. See Configuring the security groups.



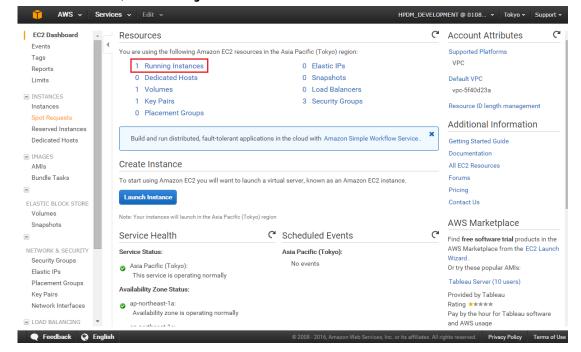
6. After you configure the security groups, select **Launch**.



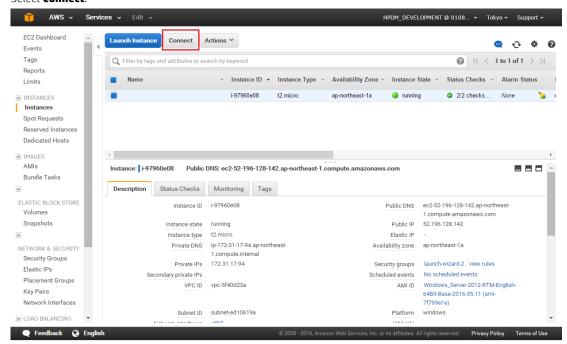
After the instance is created, you can launch it with your Amazon accout. Then you can install HPDM in it.

#### Installing HPDM and HPDM Embedded HTTPS Server

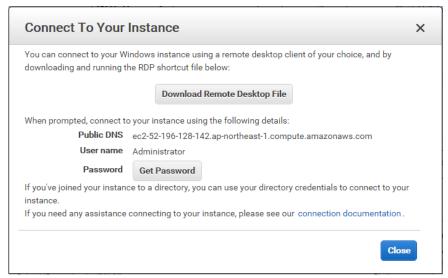
1. In the EC2 Dashboard, select **Running Instances**.



#### Select Connect.



- 3. Select **Download Remote Desktop File** and save it to your local system.
- 4. Select Get Password.



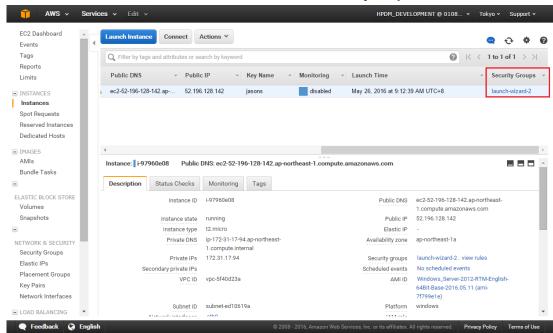
- 5. Use this password and file to connect to your instance.
- 6. Upload the HPDM package to the instance, and then install it. For instructions on installing HPDM, see the HP Device Manager 4.7 white paper *Installation and Update*.
- 7. Optionally, upload the HPDM Embedded HTTPS Server package to the virtual machine and install it. For instructions on installing HTTPS server, see the HP Device Manager 4.7 white paper HPDM Embedded HTTPS Server Deployment Guide.

## Configuring the security groups

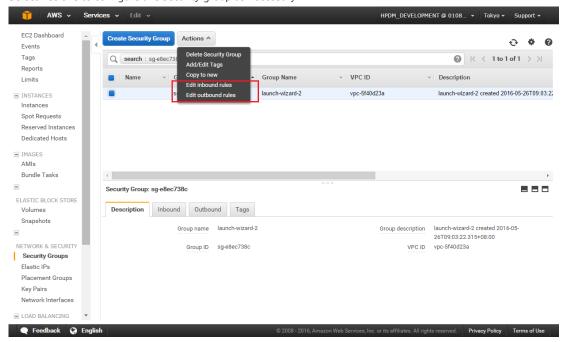
By default, an Amazon EC2 instance opens only the RDP connection through port 3389. You must map the ports corresponding to HPDM to manage your device over the Internet.

To add a port to your firewall:

1. Select the instance where HPDM was installed, and then select the **Security Groups** column value.



2. Select **Actions** to configure this security group as necessary.



• Edit inbound rules—Specifies which ports of the Amazon EC2 instance can be accessed and by which machines.



• **Edit outbound rule**—Specifies which ports on the selected machines can be accessed by the Amazon EC2 instance. By default, **All traffic** is selected.



Repeat this procedure for every port used by HPDM in your production environment. For more information about which ports HPDM uses, see the Port reference section in the *Administrator Guide* for HP Device Manager 4.7.

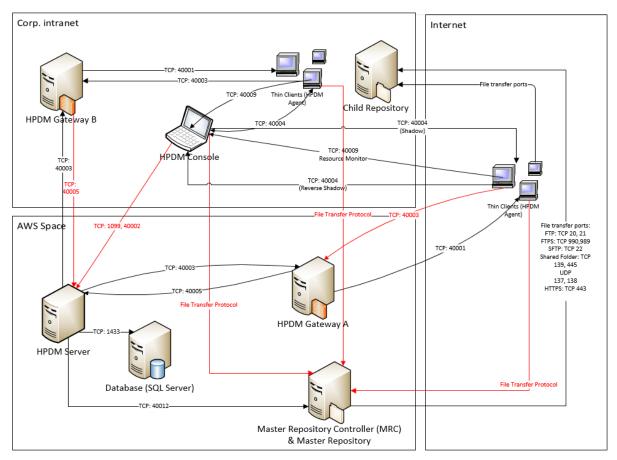
#### Sample scenario

Production environments are complex, diversified, and flexible. Use the following example to better understand port configuration in the cloud. This is a typical model with detailed configurations for reference.

#### Note

There might be firewalls between the Internet or Intranet and Amazon EC2. Make sure that you have completed the procedure in <u>Configuring the security groups</u> to allow communication between your devices and the cloud.

Figure 1. Typical topography



All ports in red in Figure 1 must be added to the endpoint firewall.

**Table 1.** Enpoints rule in Amazon EC2

Name	Protocol	Public port	Private port
HPDM Gateway B to HPDM Server	TCP	40005	40005
HPDM Console to HPDM Server	TCP	1099	1099
HPDM Console to HPDM Server	TCP	40002	40002
HPDM Agent to Master Repository Controller	TCP/UDP	File Transfer Port	File Transfer Port
HPDM Console to Master Repository Controller	TCP/UDP	File Transfer Port	File Transfer Port
HPDM Agent to HPDM Gateway A	TCP	40003	40003

# For more information

To read more about HP Device Manager, go to <a href="https://np.com/qo/hpdm">hp.com/qo/hpdm</a>.

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