

Installing HVR on AWS using HVR Image

HVR Image for AWS is a pre-configured Linux-based AMI (Amazon Machine Image) to run HVR's remote listener (as a daemon) including Redshift drivers. HVR Image for AWS supports the use as both a remote HVR agent (for capture and/or integration) as well use as a hub machine using either a PostgreSQL database on the machine, an RDS database, or a database running on a different machine.

HVR Image for AWS is available from the [AWS Marketplace](#) and includes all necessary components to connect to Amazon Redshift, Oracle and PostgreSQL on RDS, S3 or any HVR supported target database on EC2, enabling replication from/into all supported on-premises platforms.

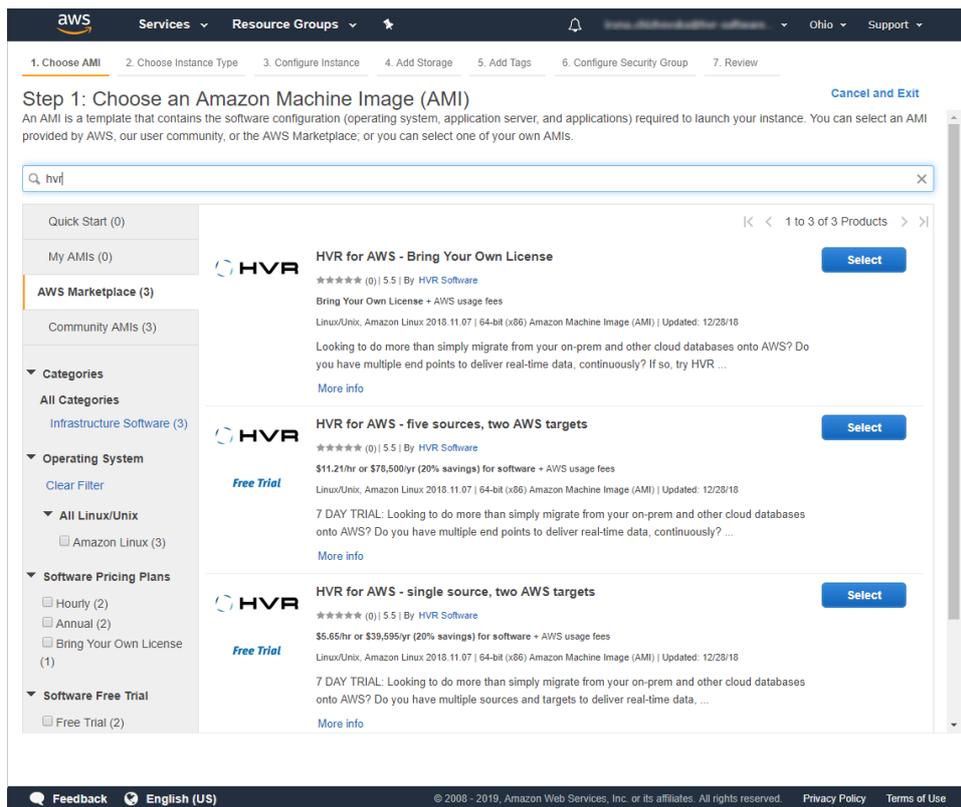
HVR Image for AWS is currently available only on Linux. Connectivity to SQL Server requires an HVR installation on Windows (optionally running as an agent).

Using HVR Image for AWS to create a remote listener agent

To use the HVR Image for AWS:

1. Sign in to the AWS portal and select **EC2** under the **Services** menu.
2. Click the **Launch Instance** button.
3. On the right side menu bar, click **AWS Marketplace** and type 'HVR' in the search field.
4. Select the HVR for AWS offering suitable for you.

For optimum efficiency make sure HVR in AMI runs in the same region as the database or service taking part in real-time data movement.



The screenshot shows the AWS Marketplace search results for 'HVR'. The search bar contains 'hvr'. Three results are displayed:

- HVR for AWS - Bring Your Own License**: 5.5 stars, \$11.21/hr or \$78,500/yr (20% savings) for software + AWS usage fees. Includes a 'Select' button.
- HVR for AWS - five sources, two AWS targets**: 5.5 stars, \$5.65/hr or \$39,595/yr (20% savings) for software + AWS usage fees. Includes a 'Free Trial' badge and a 'Select' button.
- HVR for AWS - single source, two AWS targets**: 5.5 stars, \$5.65/hr or \$39,595/yr (20% savings) for software + AWS usage fees. Includes a 'Free Trial' badge and a 'Select' button.

The interface includes a navigation bar at the top with 'Services', 'Resource Groups', and 'Support'. A progress bar at the top indicates the current step: 'Step 1: Choose an Amazon Machine Image (AMI)'. The left sidebar shows filters for 'Categories', 'Operating System', and 'Software Pricing Plans'.

5. HVR will show you the product details, click **Continue**.

6. Under the **Choose an Instance Type** tab, select a required one and click **Next: Configure Instance Details**.

Step 2: Choose an Instance Type
 Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: **All instance types** | **Current generation** | **Show/Hide Columns**

Currently selected: t2.small (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 2 GiB memory, EBS only)
Note: The vendor recommends using a **t2.small** instance (or larger) for the best experience with this product.

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input checked="" type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input checked="" type="checkbox"/>	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input checked="" type="checkbox"/>	General purpose	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes

Buttons: **Cancel** | **Previous** | **Review and Launch** | **Next: Configure Instance Details**

7. If appropriate, under the **Configure Instance** tab, select a preferred network (VPC) subnet or use the default one.

Step 3: Configure Instance Details
 Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 | [Launch into Auto Scaling Group](#)

Purchasing option: Request Spot instances

Network: vpc-ee195786 (default) | [Create new VPC](#)

Subnet: No preference (default subnet in any Availability Zone) | [Create new subnet](#)

Auto-assign Public IP: Yes

Placement group: Yes

Capacity Reservation: Open | [Create new Capacity Reservation](#)

IAM role: None | [Create new IAM role](#)

Shutdown behavior: Stop

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring
 Additional charges apply.

Tenancy: Shared - Run a shared hardware instance
 Additional charges will apply for dedicated tenancy.

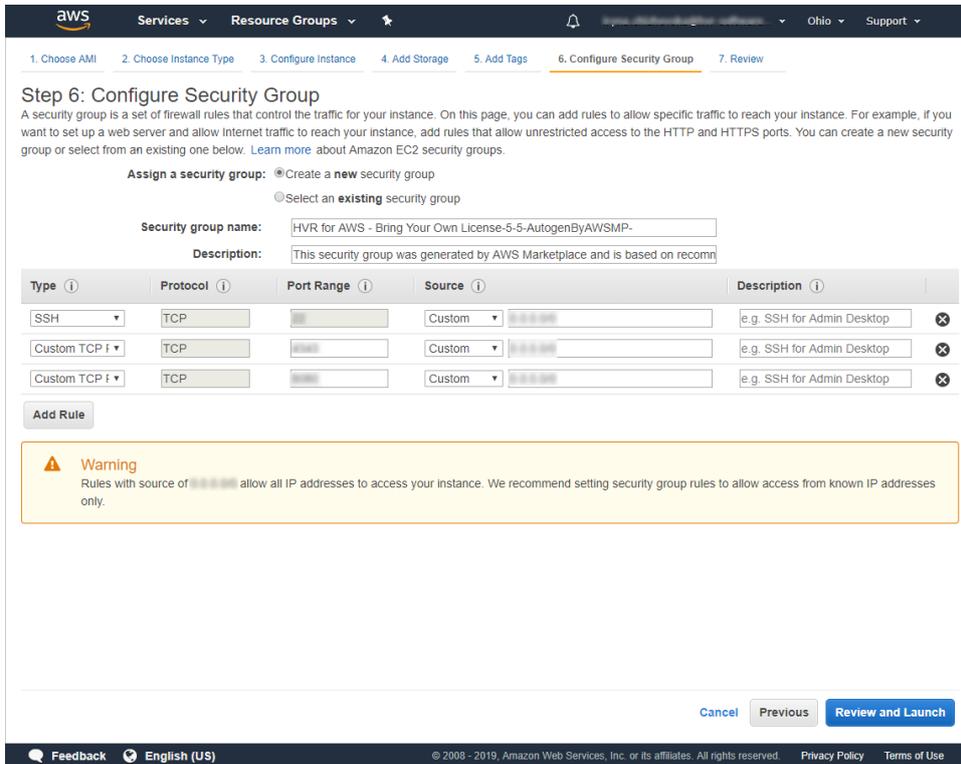
Elastic Inference: Add an Elastic Inference accelerator
 Additional charges apply.

T2/T3 Unlimited: Enable
 Additional charges may apply.

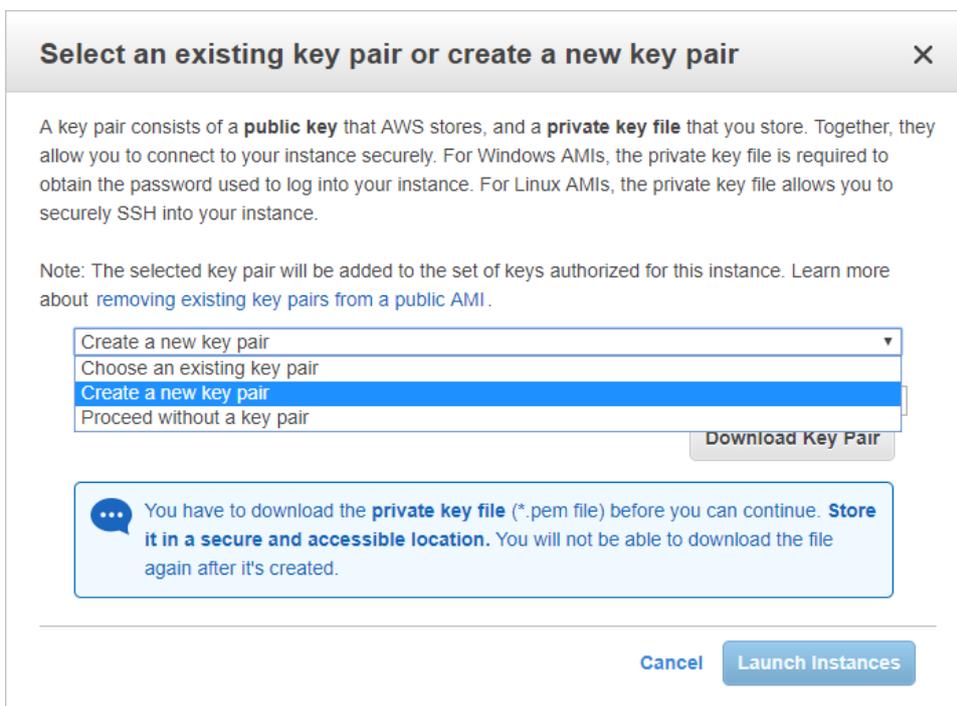
Buttons: **Cancel** | **Previous** | **Review and Launch** | **Next: Add Storage**

8. Under the **Add Storage** and **Add Tags** tabs, proceed with default settings.

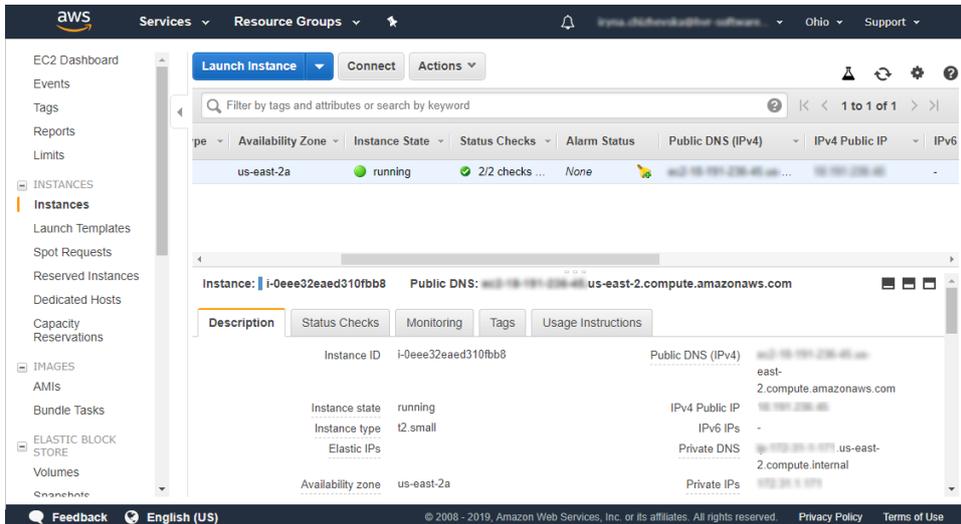
9. Under the **Configure Security Group** tab, set up traffic rules for your instance. HVR uses TCP/IP connectivity on port 4343. Configure an incoming connection for the HVR listener daemon on this port and limit the IP range as narrow as possible. Click **Review and Launch**.



- Under the **Review** tab, review your instance launch details and click **Launch** to assign a key pair to your instance and complete the launch process. An **EC2 key pair** will be used to securely access the AMI. If you have an existing EC2 key pair defined, you can use that. If you don't have a key pair defined, you can create one. Once created, the associated private key file will be downloaded through your web browser to your local computer.



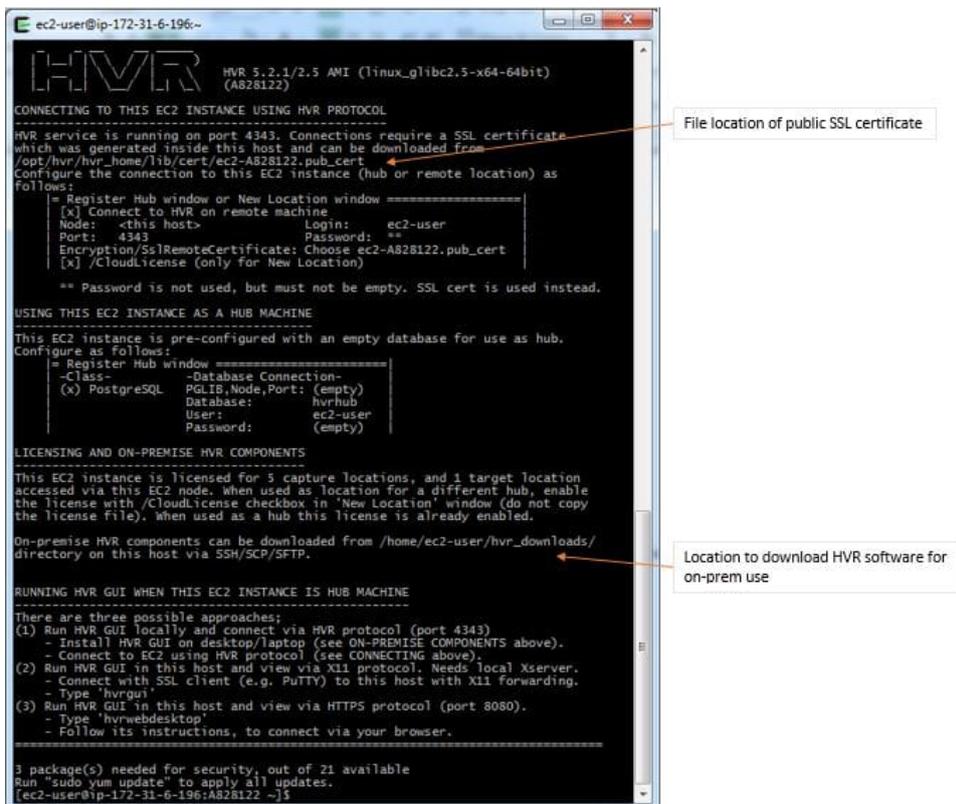
- You will now see the AMI being deployed in the Marketplace. This may take a few minutes. The details of the created AMI can be accessed in the AWS EC2 console. Note down the Public DNS name or IP address of the AMI as this will be required when connecting to the AMI.



12. Once the AMI has been deployed and is running you can start an ssh session to the AMI instance to obtain information on how to proceed. To connect, use the **pem** key that was used when the image was created. Connect as a user named **ec2-user**:

```
ssh -i <key-pair-name>.pem ec2-user@<Public-DNS-name>
```

13. The Message of the Day that you see when connecting to the EC2 instance contains important information for using this image. In particular, it provides you with the file location of the SSL public certificate you need for an on-premises HVR installation to connect to the HVR AMI and the location on the AMI from which you can download the HVR software to install on-premises.



14. Copy the public certificate **.pub_cert** file to your on-premises hub machine and download the Linux and Windows HVR packages. To do this, use your preferred file transfer tool, such as sftp, scp or a GUI-equivalent application like WinSCP.