



VM-based Setup on AWS

Virsec Security Platform 2.6

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About this Document

This document provides information about Docker and Docker Compose installation on AWS EC2. Two EC2 machines are required for VSP – one for VSP CMS and one for VSP AE (Remote AE only)

The pre-requisites for VSP installation:

1. EC2 machine with:
 - a. Docker
 - b. Docker Compose
 - c. Network Security Group with the list of ports utilized by VSP components. Refer to the VM Installation Checklist for information on the ports

This document provides steps for the EC2 environment setup on RHEL 7 (Section [1](#)) and Amazon Linux 2 (Section [2](#))

1. RHEL 7

1.1. EC2 Machine Creation

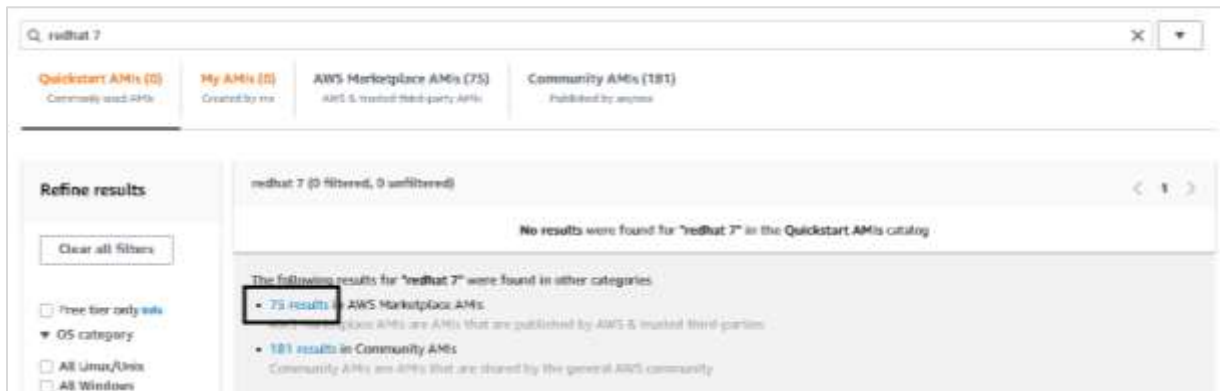
1. Access the AWS Dashboard: <https://console.aws.amazon.com/ec2> using valid credentials
2. Navigate to **EC2 > Instances > Launch an instance**. Provide an appropriate **Name**



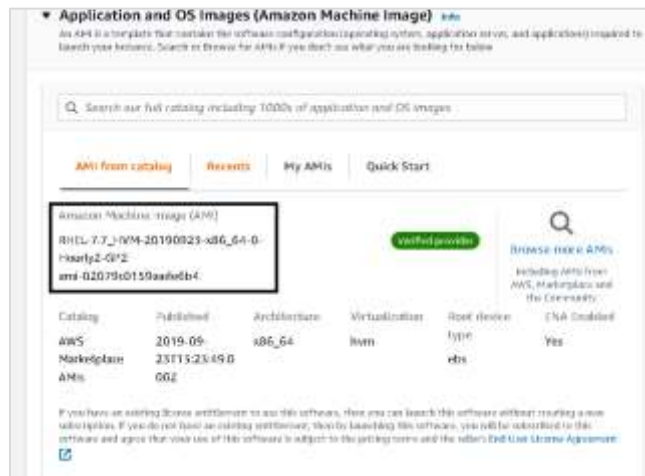
- 3. Under the **Quick Start** tab, select the appropriate AMI:
 - a. Click **Browse more AMIs**



- b. Search for **Redhat 7** and click the results in AWS Marketplace AMIs



- c. The below AMI is selected



4. Select **Instance type** as **r6i.2xlarge** for CMS



5. Click **Create new key pair** if required for authentication credentials



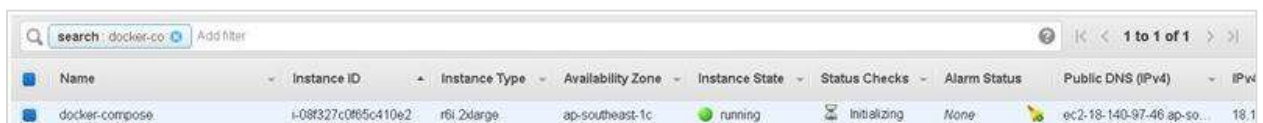
6. Configure the Storage information as required



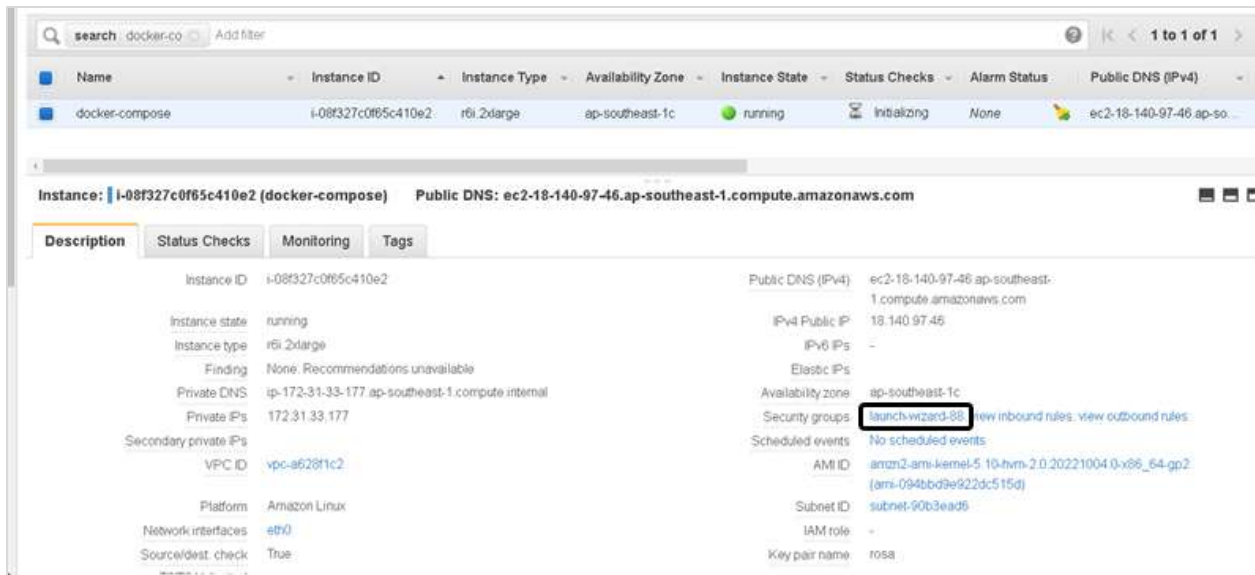
7. Click **Launch instance**



8. Once the newly created instance is up and running, configure firewall rules as described below:
 - a. Select the launched Instance

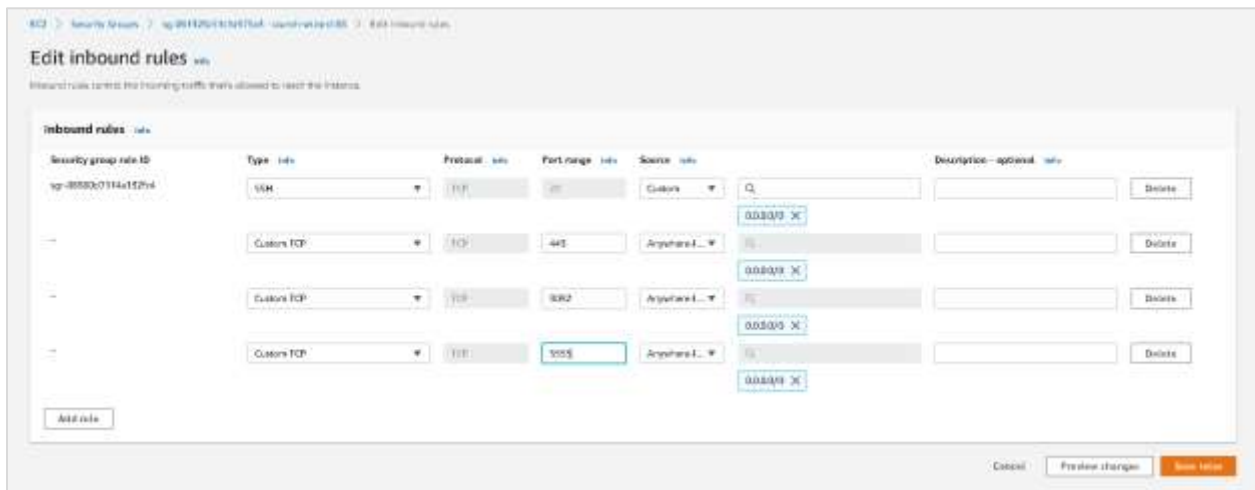


b. Click **Security groups**



c. Select **Inbound rules** and click **Edit inbound rules**

d. Create the required rules



1.2. Installation

1. Log in to the two newly created machines using SSH and install Docker and Docker Compose using the commands below:

- a. `sudo su`
- b. Register the machine with the Red Hat subscription to download dependencies
 - i. `subscription-manager register --username <username> --password <password> --auto-attach`
- c. `yum update`

- ```
subscription-manager repos --enable=rhel-7-server-rpms --enable=rhel-7-
server-extras-rpms --enable=rhel-7-server-optional-rpms
```
- d. `yum install -y`  
`https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm`
  - e. `yum install -y yum-utils device-mapper-persistent-data lvm2`
  - f. `yum-config-manager --add-repo`  
<https://download.docker.com/linux/centos/docker-ce.repo>
  - g. `yum install docker-ce`
  - h. `systemctl enable --now docker.service`
  - i. `curl -L`  
`"https://github.com/docker/compose/releases/download/1.29.2/docker-
compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose`
  - j. `chmod +x /usr/local/bin/docker-compose`
  - k. `mv /usr/local/bin/docker-compose /usr/bin/`
2. **Verification:** Execute the commands below to verify the Docker and Docker Compose versions:
    - a. `docker version`
    - b. `docker-compose version`

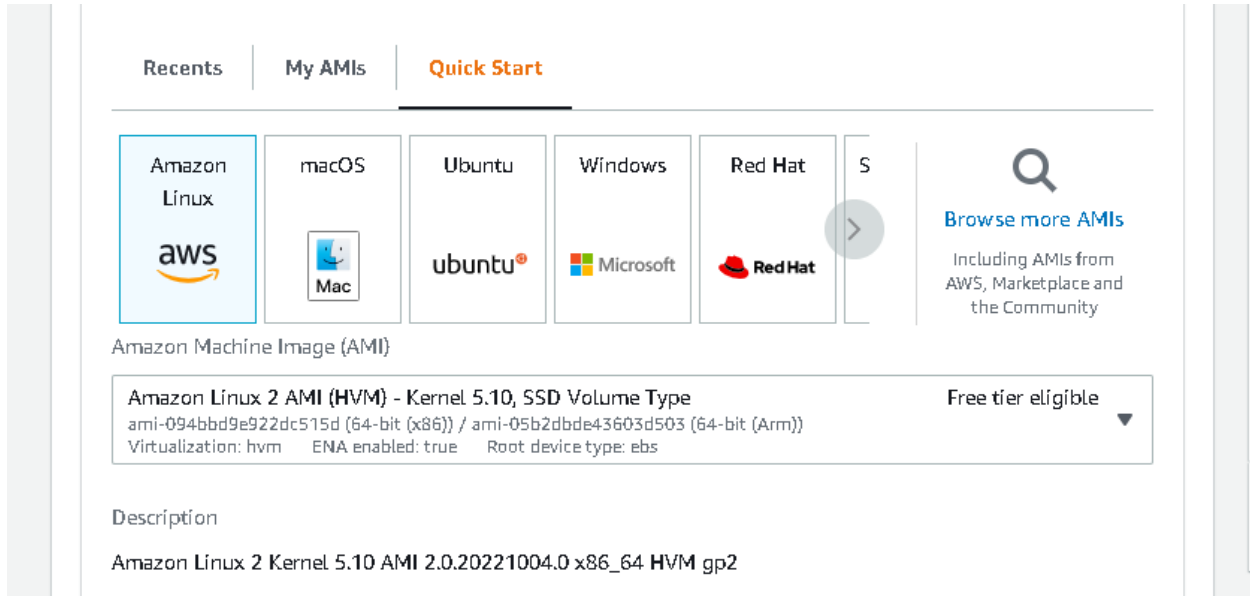
## 2. Amazon Linux 2

### 2.1. EC2 Machine Creation

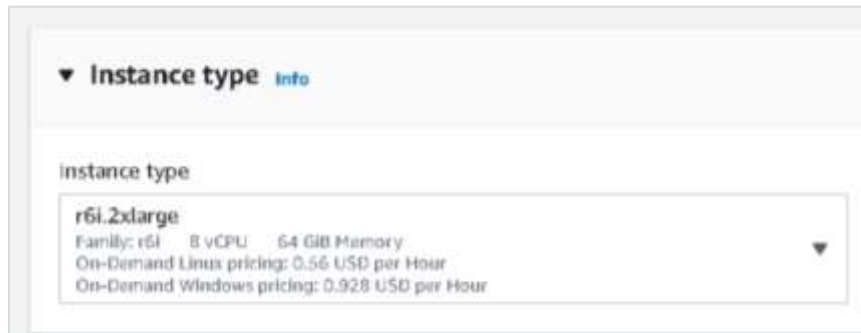
1. Access the AWS Dashboard: <https://console.aws.amazon.com/ec2> using valid credentials
2. Navigate to **EC2 > Instances > Launch an instance**. Provide an appropriate **Name**



3. Under the **Quick Start** tab, select **Amazon Linux 2** as the AMI:



a. The below AMI is selected



4. Select **Instance type** as **r6i.2xlarge** for CMS



5. Click **Create new key pair** if required for authentication credentials





6. Configure the Storage information as required

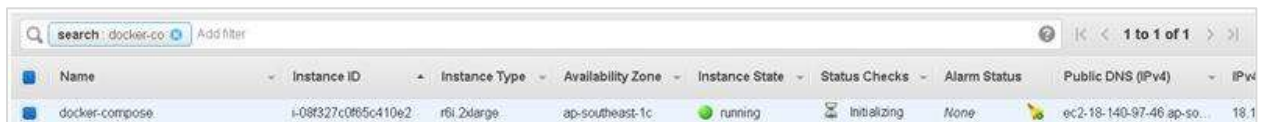


7. Click **Launch instance**

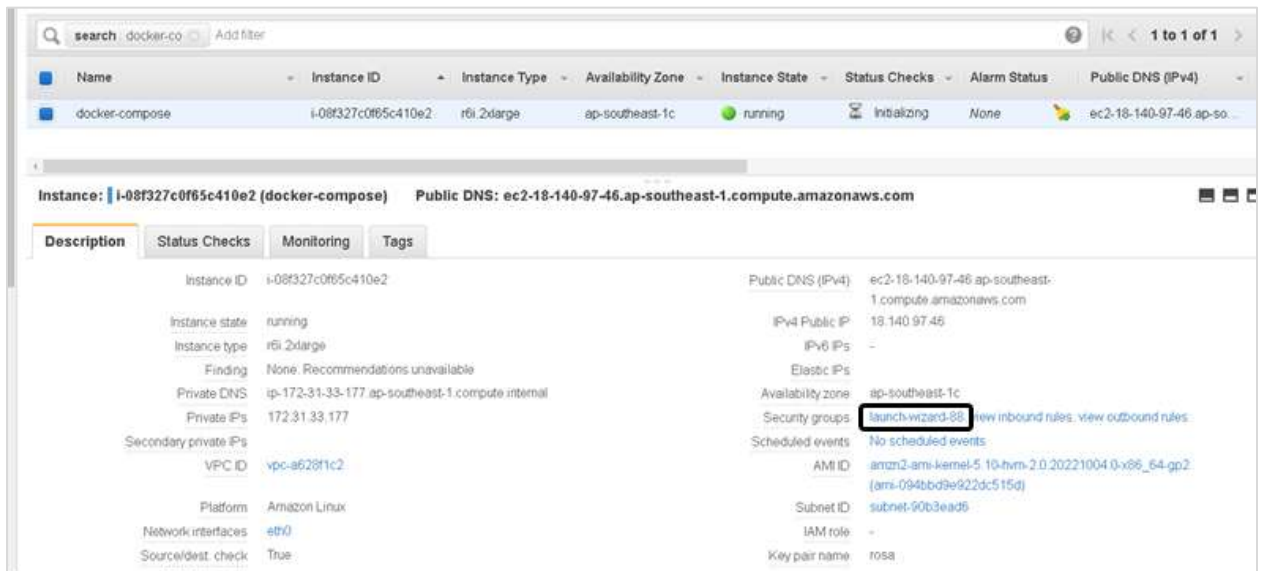


8. Once the newly created instance is up and running, configure firewall rules as described below:

a. Select the launched Instance

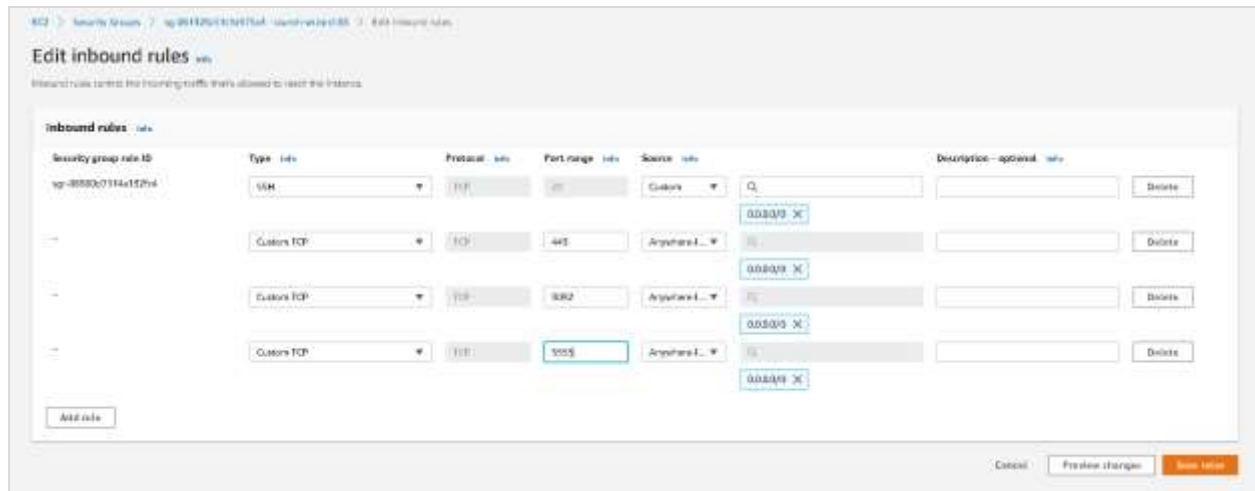


b. Click **Security groups**



c. Select **Inbound rules** and click **Edit inbound rules**

d. Create the required rules



## 2.2. Installation

1. Log in to the two newly created machines using SSH and install Docker and Docker Compose using the commands below:
  - a. `sudo su`
  - b. `yum update`
  - c. `yum install docker`
  - d. `curl -L "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)" -o docker-compose`
  - e. `chmod +x docker-compose`
  - f. `mv docker-compose /usr/bin/`
2. **Verification:** Execute the commands below to verify the Docker and Docker Compose versions:
  - a. `docker version`
  - b. `docker-compose version`

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