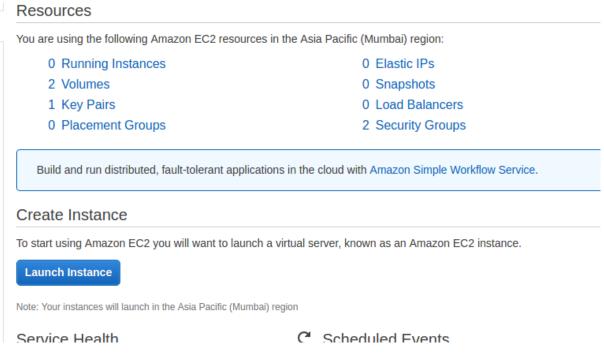
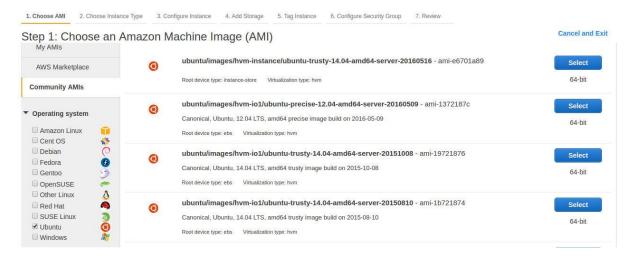
## Exercise 1: Install Puppet Master and Agents and run basic commands

- Install Puppet Master & Agent on AWS
- Launch And Configure EC2-Instance in console



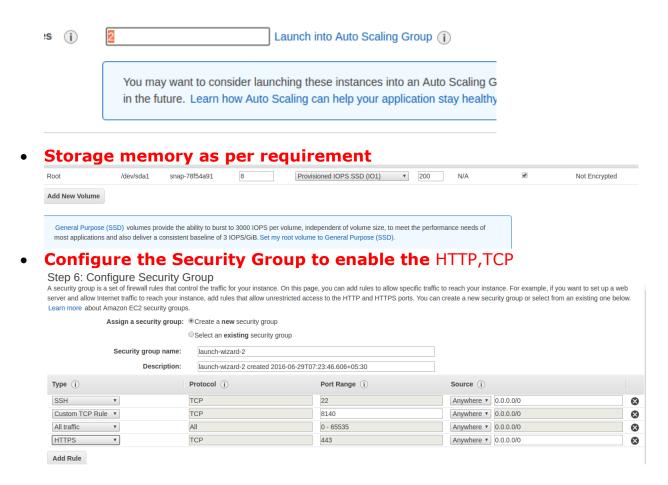
Select Ubuntu OS 14.04



Choose the server type



 Enter the number of servers we need to create :-I enter 2 server it will automatically create Add the Disk



- Launch instances and connect using Putty
- Install Puppetmaster and Agent

Sudo -i

Hostname

hostname puppetmaster.test.org

exit

sudo -i

 Check ifconfig of agent machines and copy the IP address for agent. Run the following command on master machine

```
echo 172.31.26.143 puppetagent1.test.org >> /etc/hosts

ping puppetagent1.test.org

apt-get update

apt-get install puppetmaster

puppet --version

service puppetmaster status

puppet cert list -all
```

On Agent node, open terminal

```
Sudo -i
hostname
hostname puppetagent1.test.org
exit
sudo -i
```

- On master node, open terminal and run ifconfig to check the IP address
   Ifconfig
- On agent node, open terminal and run following commands

```
echo 172.31.22.177 puppetmaster.test.org >> /etc/hosts
ping puppetmaster.test.org
apt-get update
apt-get install puppet
Service puppet status
vi /etc/puppet/puppet.conf
server=puppetmaster.test.org
Puppet agent -t
Puppet agent --enable
Puppet agent --server puppetmaster.test.org
Puppet agent --
```

Run the following commands in agent terminal window

```
puppet agent -t
facter
```

· Run the following commands in master terminal window

```
puppet apply -e 'notify { "Hello World" : }'
puppet apply -e 'service {"sshd" : ensure =>"stopped",
enable => false,}'
service ssh restart
```

Run the following commands in master terminal window

```
cd /etc/puppet
ls
cd manifests
```

Create a file by typing nano site.pp and edit the following code. Save and exit

```
node default {
    notify{"The default puppet configuration": }
}
```

• Go to Agent window and run the following command

```
puppet agent -t
```

 Again edit the site.pp by typing nano site.pp. Add the following code, save and exit.

```
node puppetagent1 {
     notify{"We have matched nodes in Puppet": }
}
```

Go to Agent window and run the following command

```
puppet agent -t
```

 Again edit the site.pp by typing nano site.pp. Update the previous code with the following code, save and exit. This will match all the nodes that have the words "puppet" in their name.

```
node /^puppet/ {
    notify{"We have matched nodes in Puppet": }
}
```

• Go to Agent window and run the following command

```
puppet agent -t
```

Go to puppetagent1 client terminal and run the following commands

```
cd /var/lib/puppet
ls -l
cd client_data/catalog
ls -l
more puppetagent1.test.org.json
```