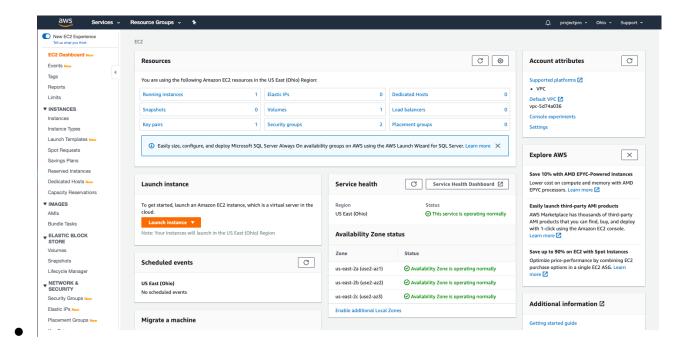
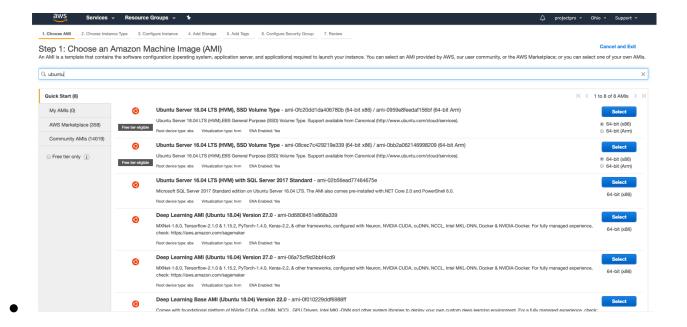
Steps to create Ec2 instance for the Project

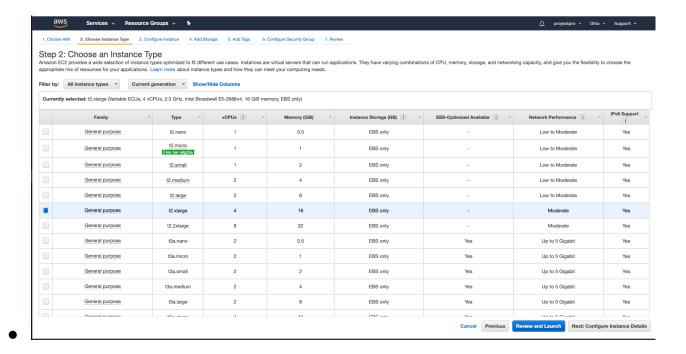
- Sign in a root user into AWS management console (AWS account)
- Click on services ->ec2
- Launch instance



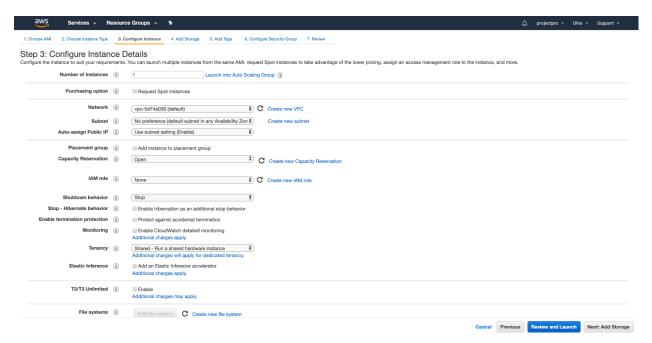
• Choose machine image for your Ubuntu server as Ubuntu Server 16.04 LTS (HVM), SSD Volume Type



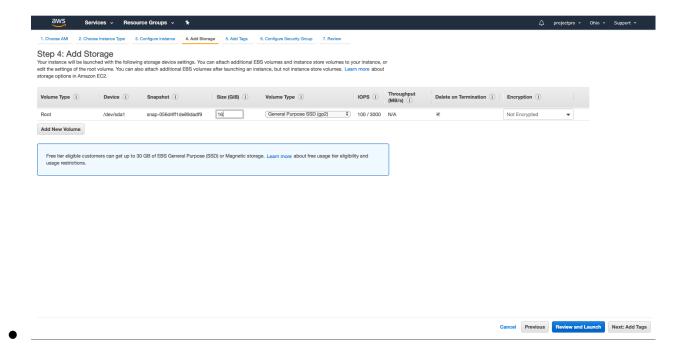
• Choose instance type as t2.xlarge and click on Configure instance details



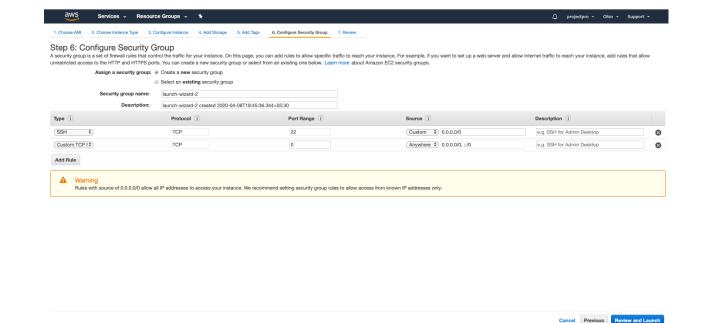
• Do not change anything in the configure instance details - will be useful for multi node cluster configurations



- Click on Add storage
- Change size to 16GB and click on Add tags



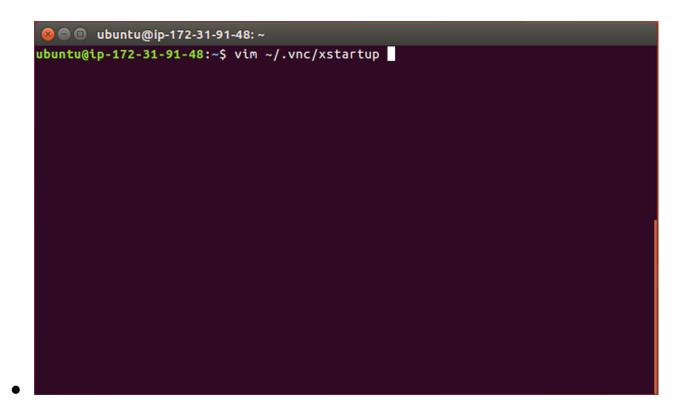
- Do not do anything in the add tags. Please proceed to add security groups
- Add type as custom TCP as shown in the figure and click on review and launch instance



- Steps to create keypair and connect to your EC2 instance from Windows/Mac OS:
- While creating EC2 instance, you are suggested to create new KeyPair for logging into the EC2 instance.
- Download the .pem file .
- If Mac, directly use .pem file to login into instance
- chmod 400 **/path/to/your/key/**EDAMAME.pem
- ssh -i **/path/to/your/key/**EDAMAME.pem ubuntu@ec2-**UNIQUE SET OF NUMBERS**.compute-1.amazonaws.com
- If Windows, convert .pem to .ppk file and login into instance
- https://docs.aws.amazon.com/quickstarts/latest/vmlaunch/step-2-connect-to-instance.html
- Once we login into Ubuntu instance, we are supposed to set up Ubuntu remote desktop
- Steps to connect to Ubuntu remote desktop:
- Setting up TightVNC on AWS

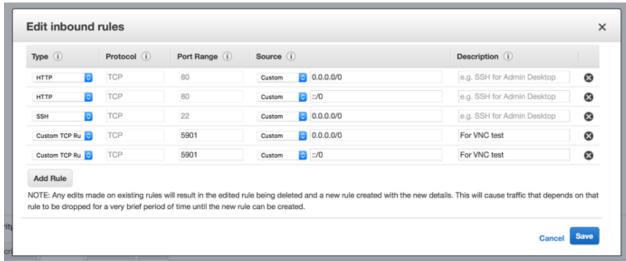
- Let's install Ubuntu Desktop and TightVNC on your EC2 instance. After logging in to your EC2 instance using the terminal, enter the following commands to install the tools that will be required to run Ubuntu desktop:
- While installing VNC Server you'll be required to setup a password for the server. So remember this since it will be needed later to connect to our VNC server.
- sudo apt update
- sudo apt install ubuntu-desktop
- sudo apt install tightvncserver
- sudo apt install gnome-panel gnome-settings-daemon metacity nautilus gnome-terminal
- After completion, your machine is ready with GUI support but needs some configuration to be done.
- Configuring the VNC server
- In your terminal type the following command to launch VNC server to create an initial configuration file:
- vncserver :1
- Open the configuration file in vim:
- vim ~/.vnc/xstartup

0



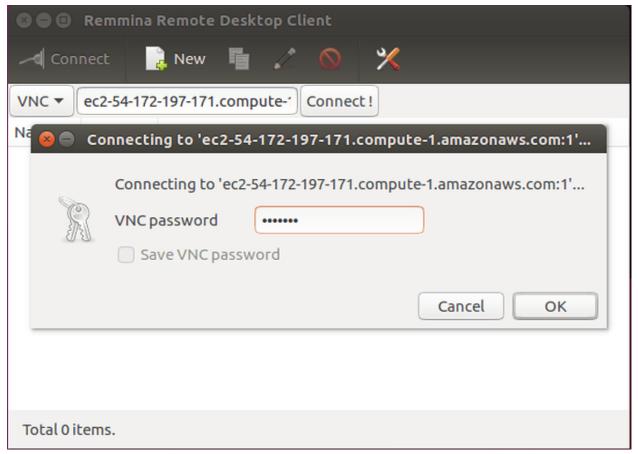
AWS Configuration

 We need to make sure that the AWS instance has inbound rules setup to allow connection using VNC. So, head over to your AWS EC2 console and modify the inbound-rules. Add the entry: Custom TCP Rule | TCP | 5901 | Custom | 0.0.0.0/0 | VNC Connect

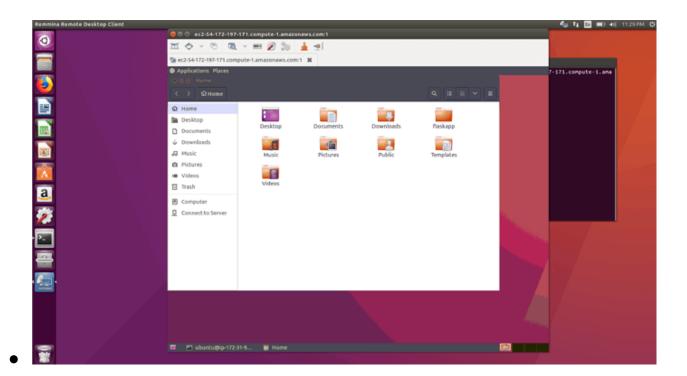


• Download VNC server for your OS from the link below:

- o https://www.realvnc.com/en/connect/download/viewer/macos/
- Connect to your remote by following the steps below:
 - Connecting to Ubuntu Desktop
- Launch Remmina Remote Desktop Client. Then, 1. Choose the connection type as 'VNC'
- Enter your EC2 url along with the port number as 1. For eg. : My EC2 instance URL and the port number as 1 will be
 - o ec2-54-172-197-171.compute-1.amazonaws.com:1



- 3. Enter the password you provided during the installation of the VNC Server. 4. Connect!
- Congratulations, you've successfully configured your EC2 instance to run Ubuntu Desktop GUI Support.



- The above has to be done in VNC server.
- o https://ubuntu.com/tutorials/tutorial-ubuntu-desktop-aws#1-overview from Ubuntu official website might help.