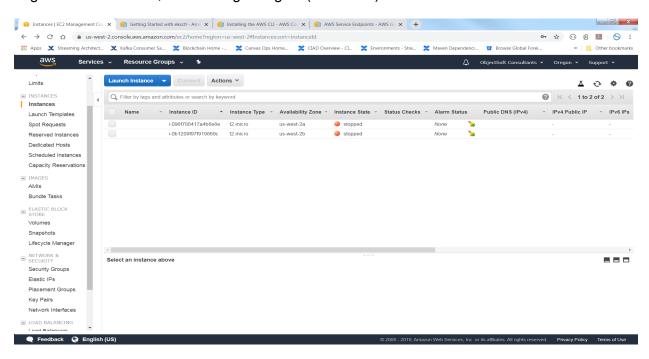
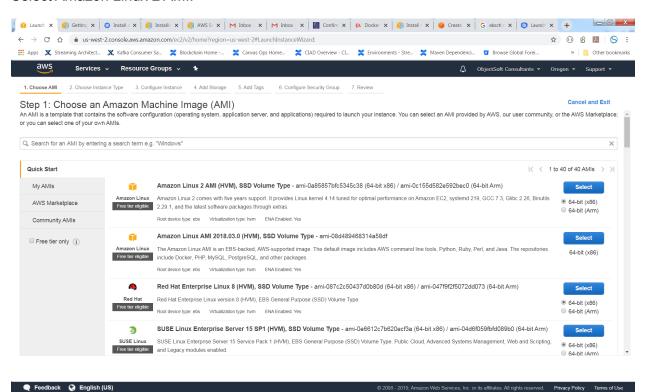
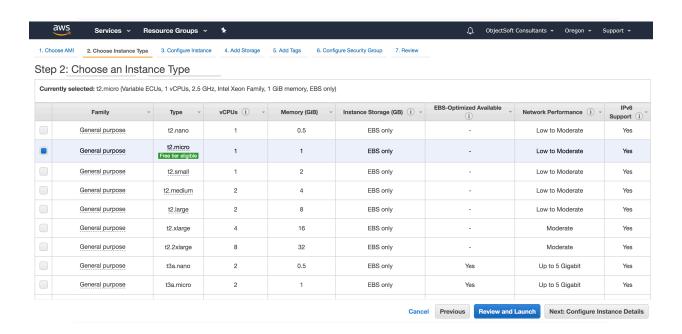
Log into AWS account, select Oregon region (us-west-2) and click on Launch Instance button.



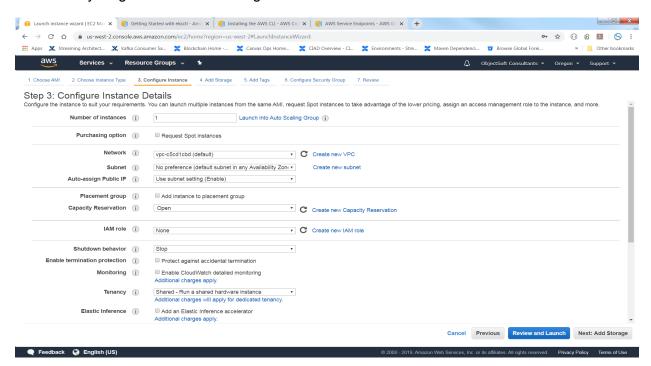
#### Select Amazon Linux 2 AMI:



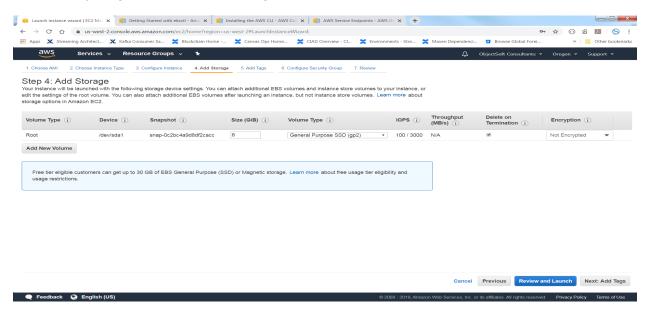
### Select t2.micro as instance type.



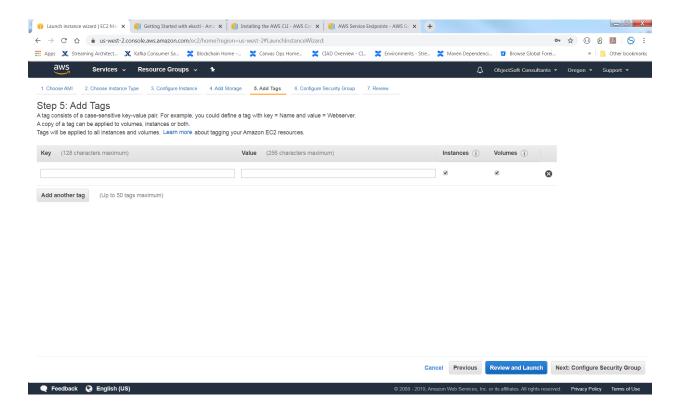
## Leave everything as default on Configure Instance Details Screen



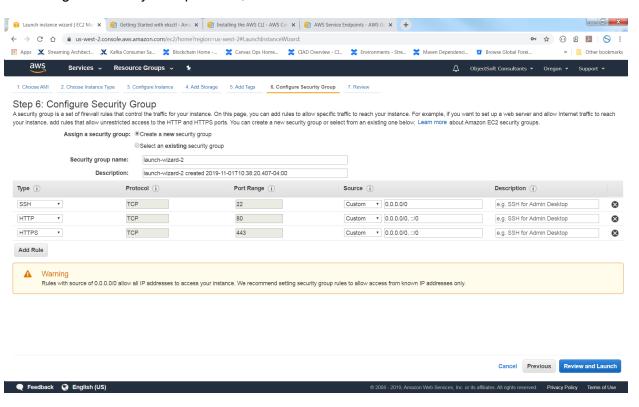
# Leave everything default on Add Storage screen:



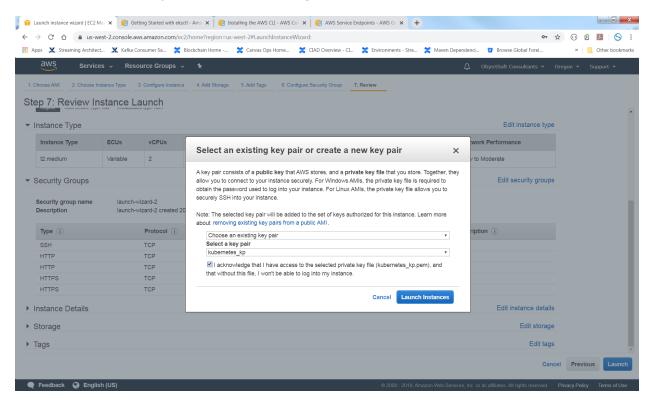
No need to Add Tags



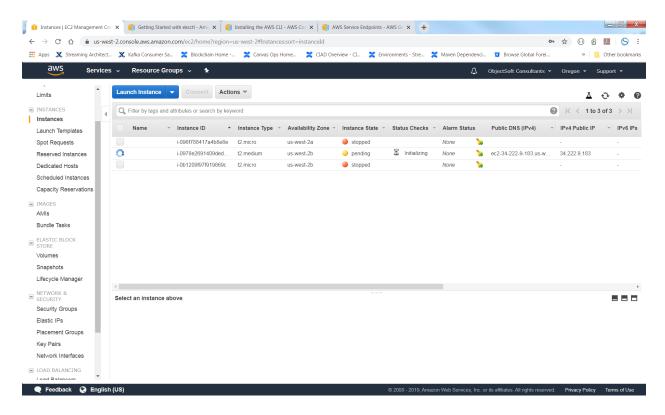
### On Configure Security Group screen, add new Rules as below:



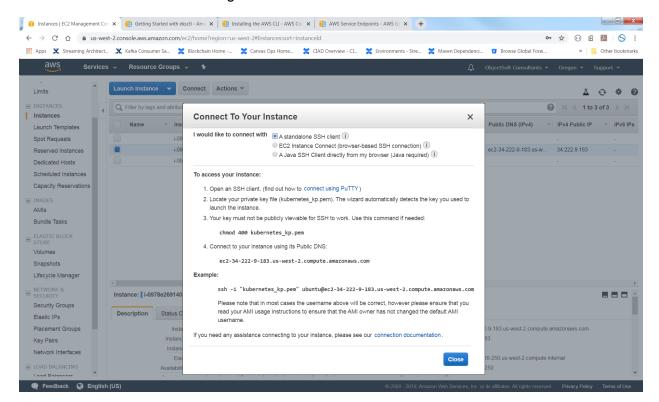
Either create a new keypair or use an existing one to Launch an instance:



View Instance on EC2 Console:



# Connect with EC2 Instance using Standalone SSH client



After connecting with your instance, update binaries:

[ec2-user ~]\$ sudo yum update

## Install Python3

[ec2-user ~]\$ sudo yum install python3 -y

### Verify Installation

[ec2-user ~]\$ which python3

# Install pip3

curl -O <a href="https://bootstrap.pypa.io/get-pip.py">https://bootstrap.pypa.io/get-pip.py</a>

python3 get-pip.py --user

Verify pip3 is installed correctly

sudo pip3 --version

Install latest AWS CLI

sudo pip3 install awscli --upgrade -- user

Configure your AWS CLI Credentials

#### \$ aws configure

AWS Access Key ID [None]: <<entries from Security Credential file in AWS Console>> AWS Secret Access Key [None]: <<entries from Security Credential file in AWS Console>> Default region name [None]: us-west-2 Default output format [None]: json

Install eksctl Command Line Utility

curl --silent --location "https://github.com/weaveworks/eksctl/releases/download/latest\_release/eksctl\_\$(uname -s)\_amd64.tar.gz" | tar xz -C /tmp

Move the extracted binary to /usr/local/bin.

### sudo mv /tmp/eksctl /usr/local/bin

Test that your installation was successful with the following command.

eksctl version

### Install Kubectl

curl -LO https://storage.googleapis.com/kubernetes-release/release/`curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt`/bin/linux/amd64/kubectl

Make the kubectl binary executable.

chmod +x kubectl

Move the binary in to your PATH.

sudo mv kubectl /usr/local/bin/kubectl

Test to ensure the version you installed is up-to-date

kubectl version

Installing aws-im-authenticator

curl -o aws-iam-authenticator https://amazon-eks.s3-us-west-2.amazonaws.com/ 1.14.6/2019-08-22/bin/linux/amd64/aws-iam-authenticator

Apply execute permissions to the binary

chmod +x aws-iam-authenticator

Copy the binary to a folder in your \$PATH

sudo\_mv aws-iam-authenticator /usr/local/bin

Test that the aws-iam-authenticator binary works

aws-iam-authenticator help

Create your Amazon EKS cluster and Linux worker nodes with the following command

eksctl create cluster --name development --version 1.14 --region eu-west-1 --nodegroupname standard-workers --node-type t2.micro --nodes 3 --nodes-min 2 --nodes-max 4 -node-ami auto

Create a kubeconfig for Amazon EKS

aws eks --region eu-west-1 update-kubeconfig --name development

Test your configuration

# kubectl get svc

# Output:

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE svc/kubernetes ClusterIP 10.100.0.1 <none> 443/TCP 1m

# Verify running nodes:

kubectl get nodes