# 

# **Tasks**

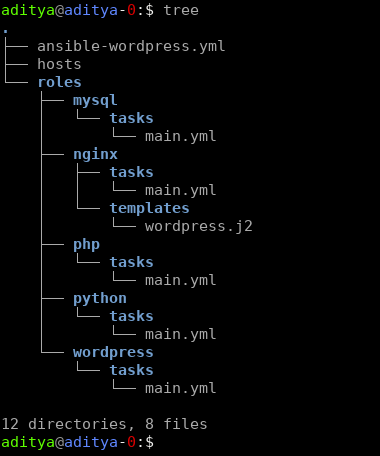
Trainee Name : Aditya Upadhyay

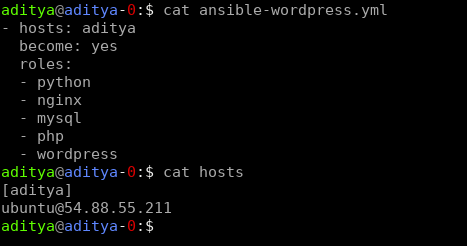
Newers ID : 3978

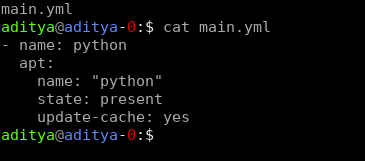
Mentor Name : Tarun Saxena

College : UPES

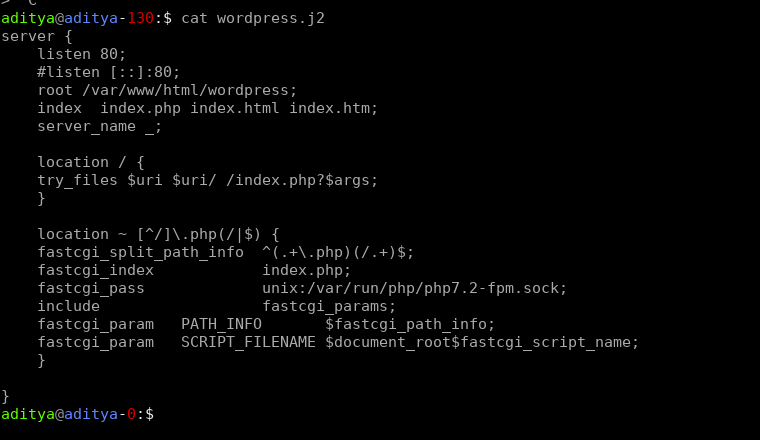
* Project 1
  + Create an ansible playbook to setup WordPress stack on a remote machine

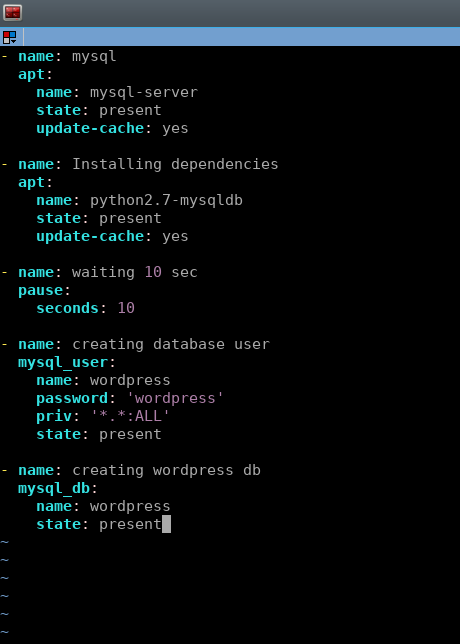


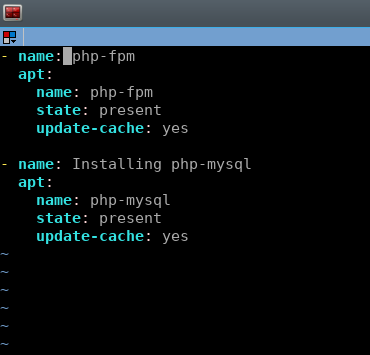


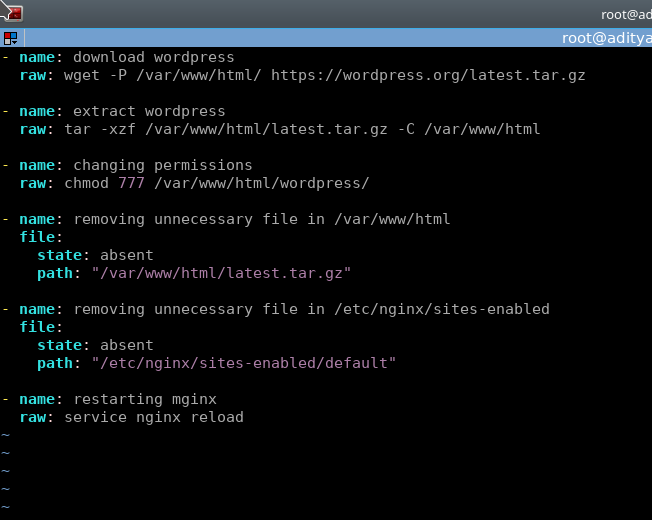




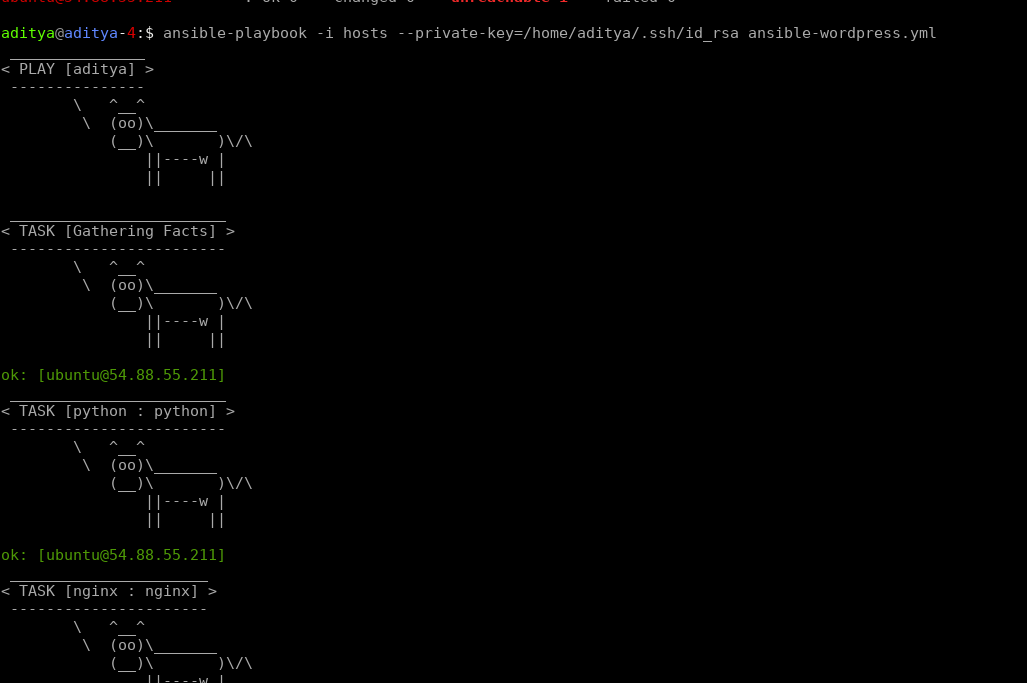








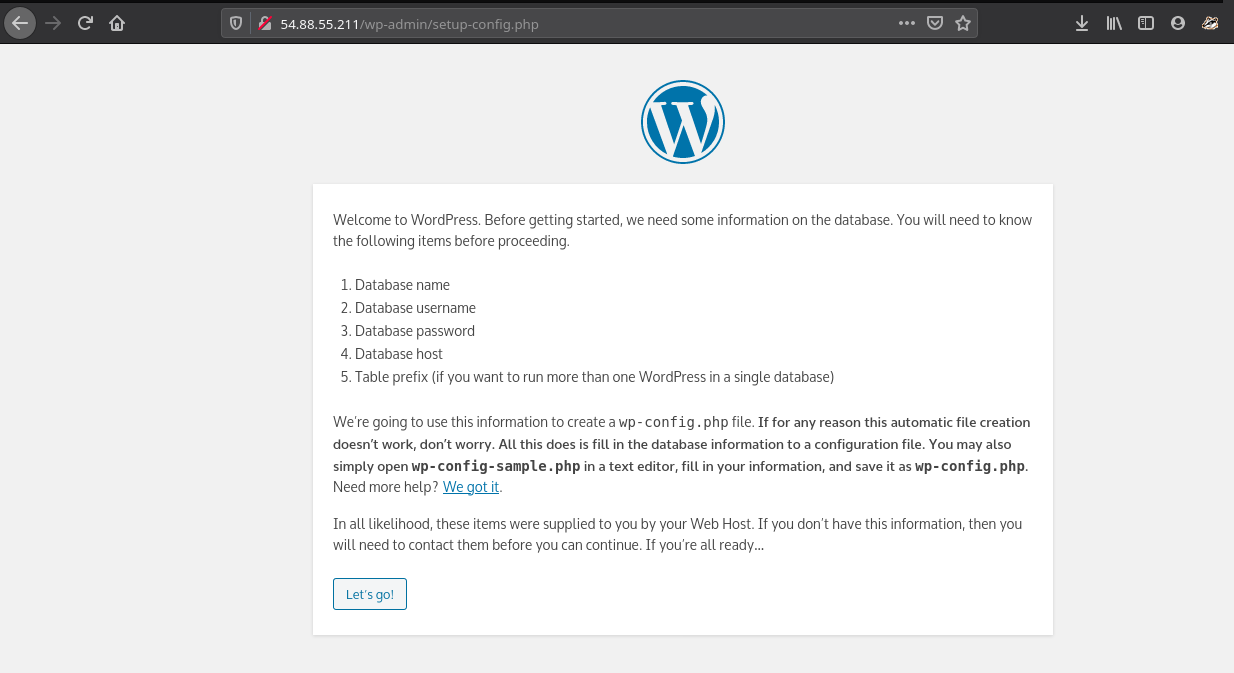
* + Run playbook from local



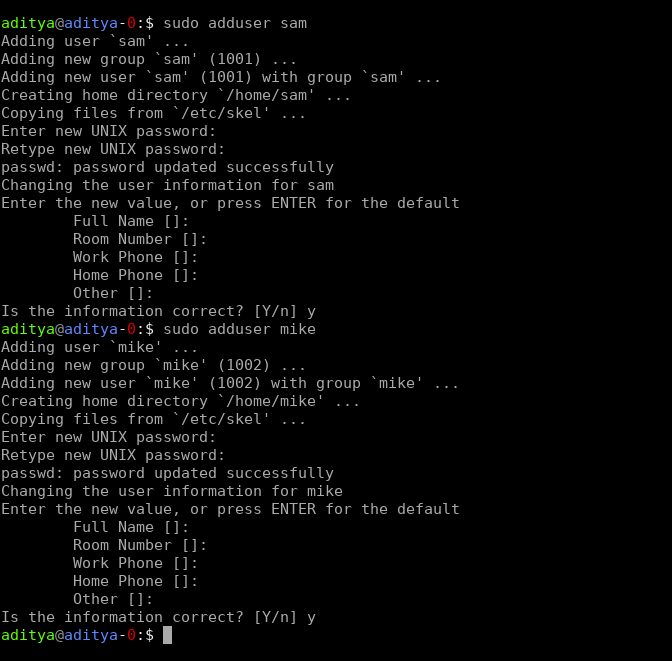


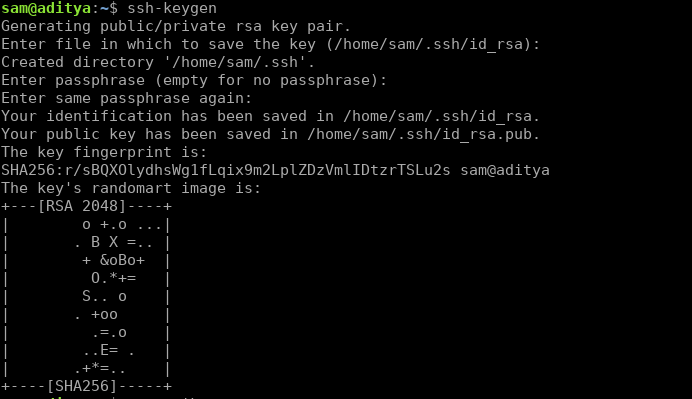


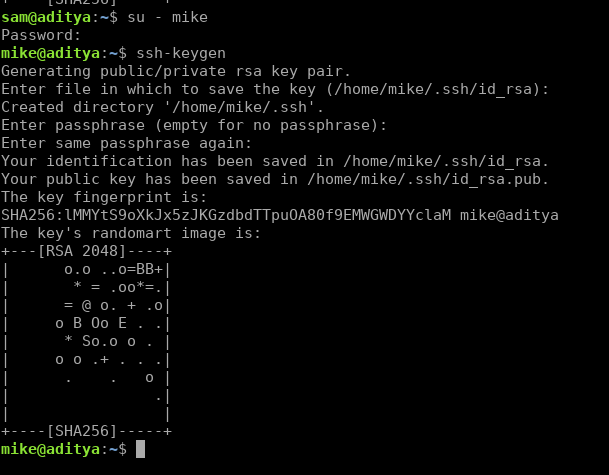


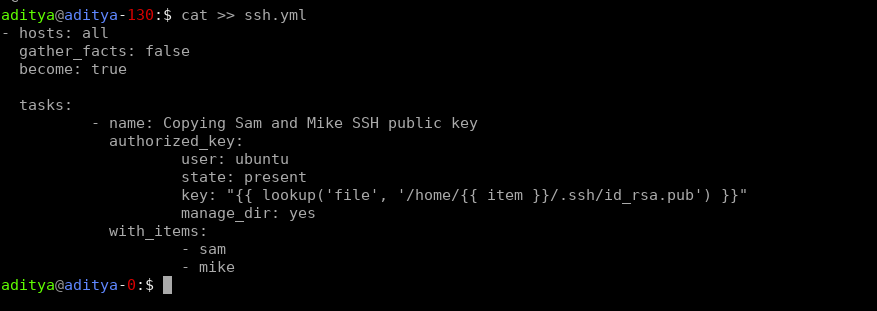


* + Create user sam and mike on your local Linux system and sync dynamically their ssh keys to the target instance.





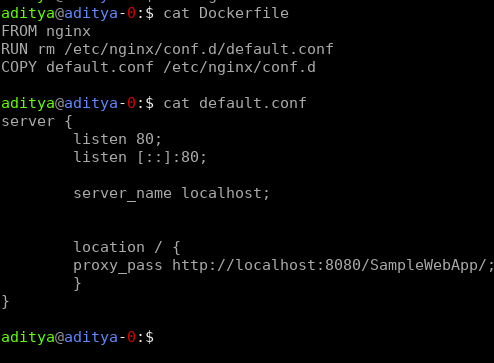


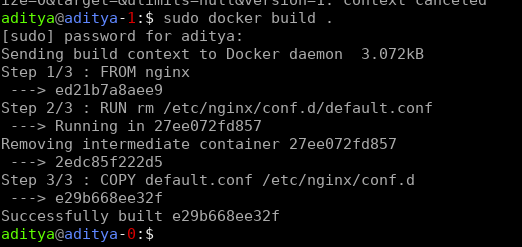


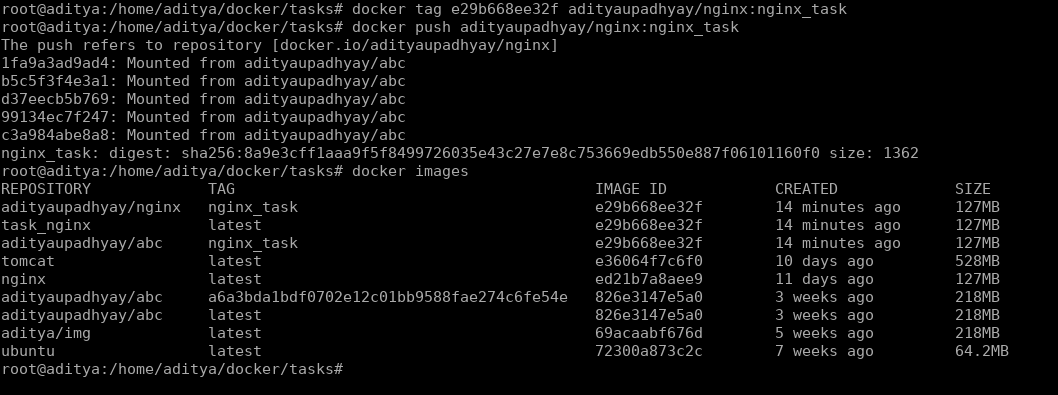


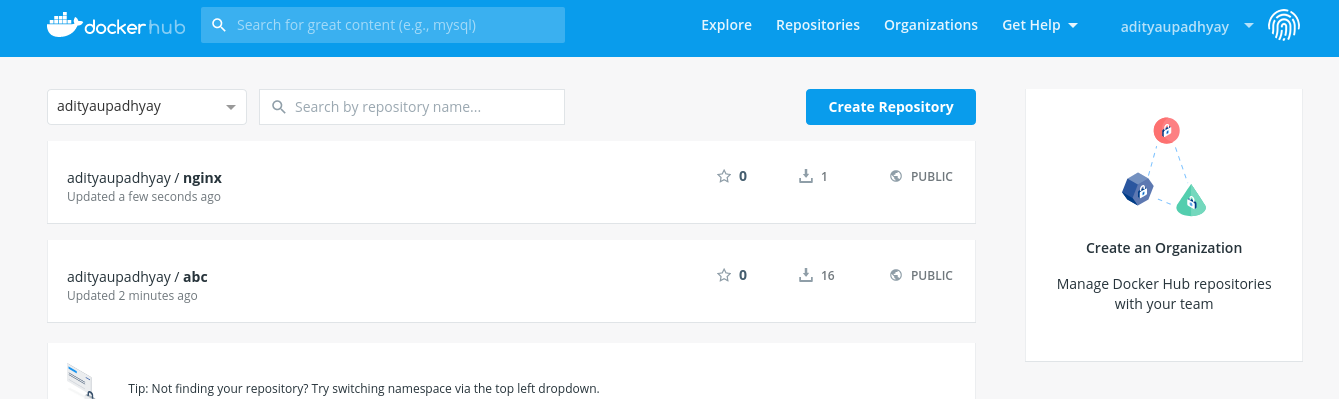


* Project 2
  + Create a docker image to run nginx

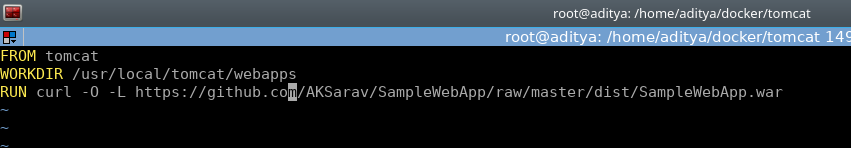


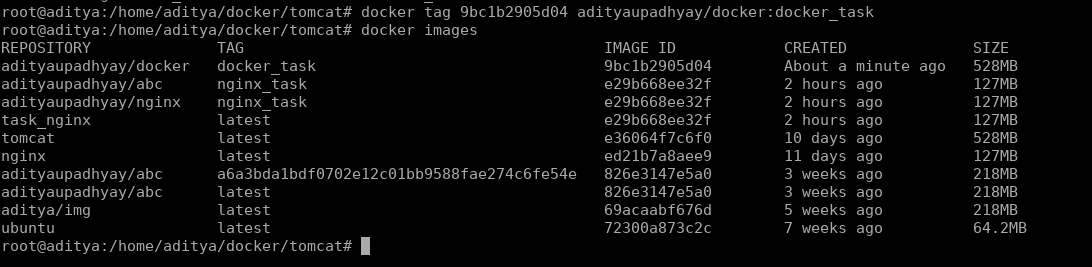


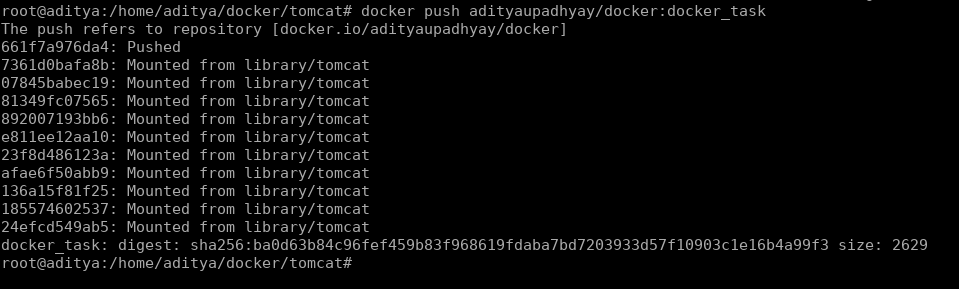


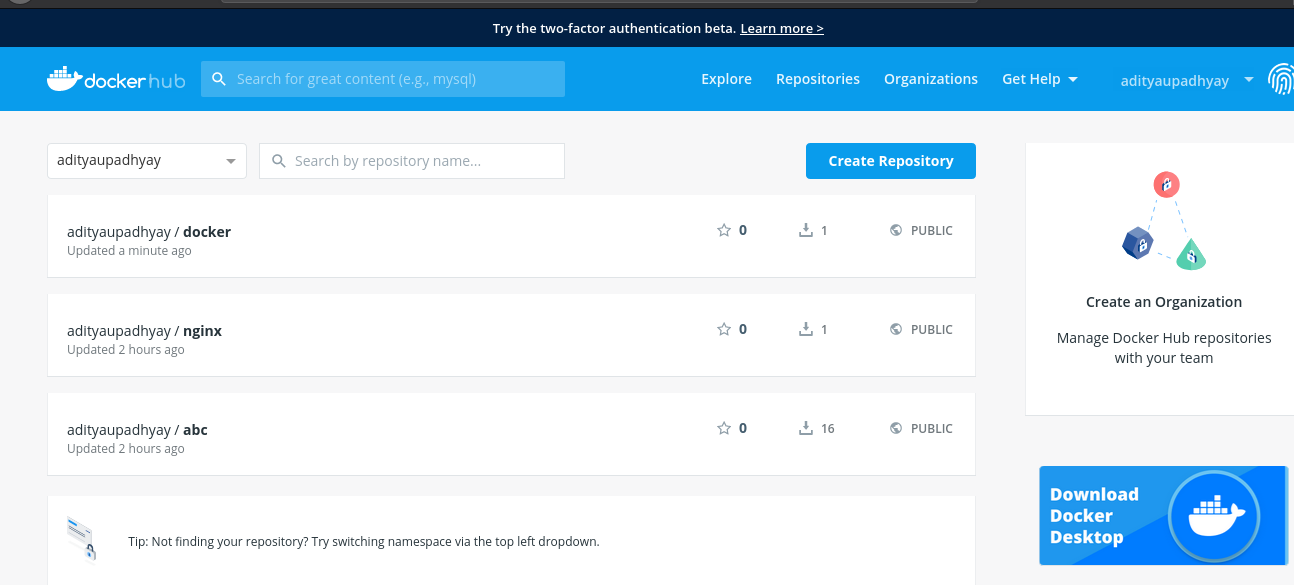


* + Create an image of tomcat with a sample war file.

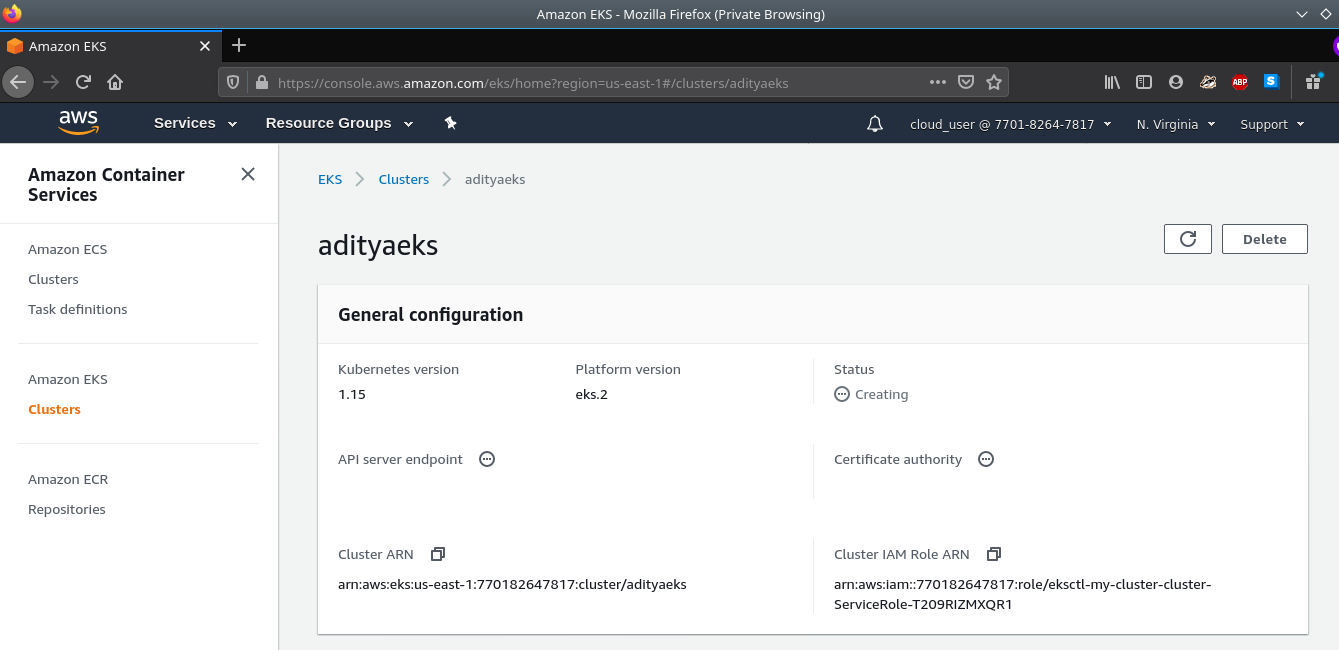


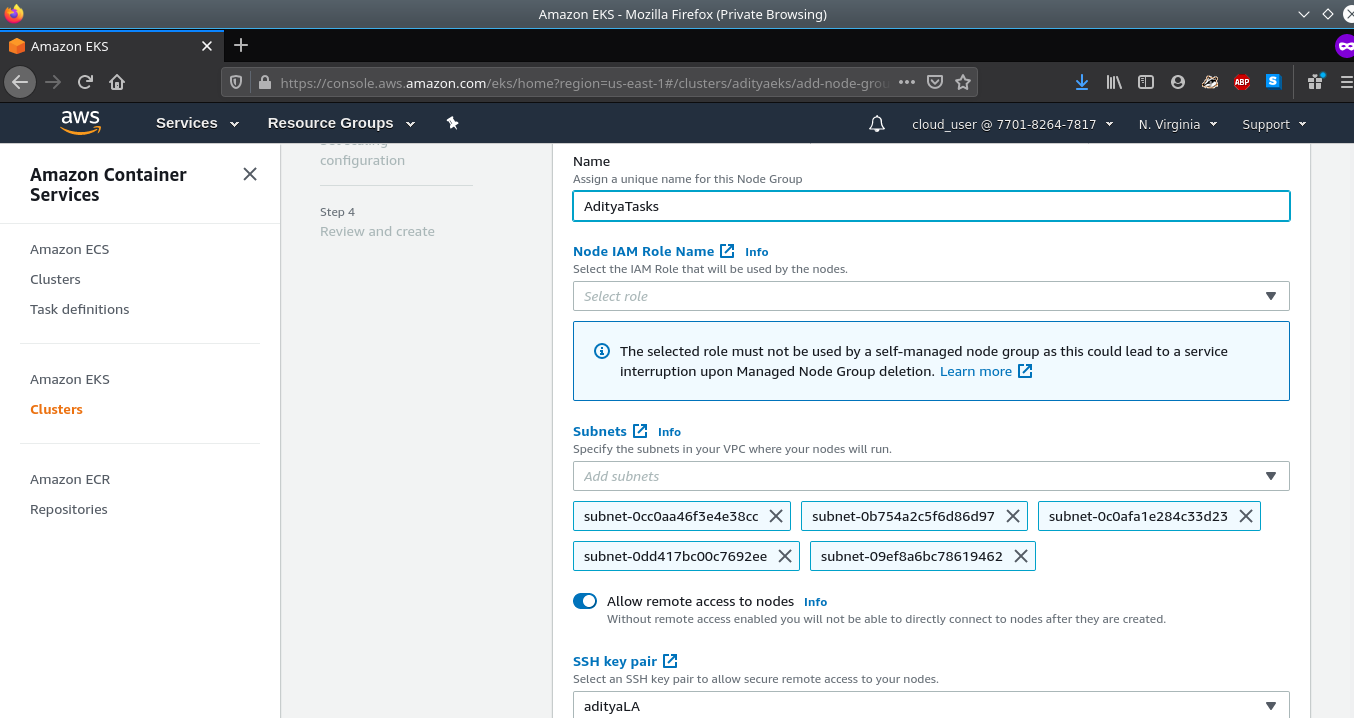


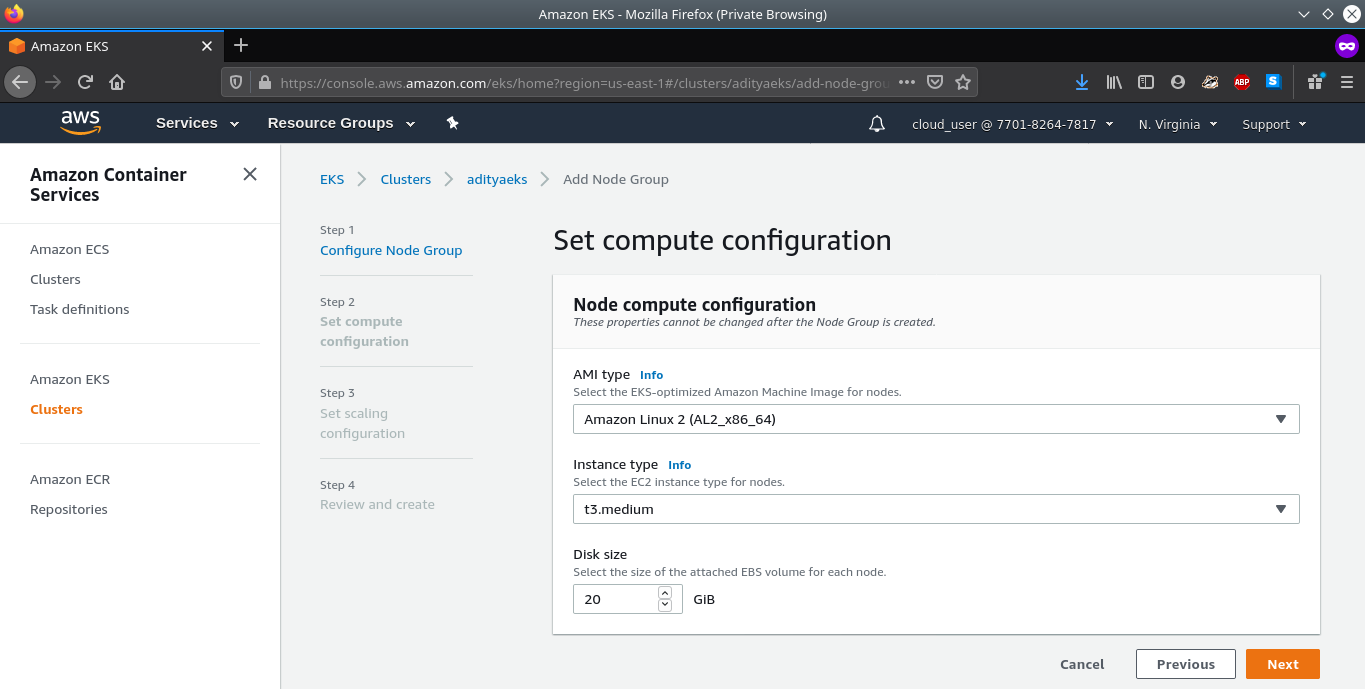


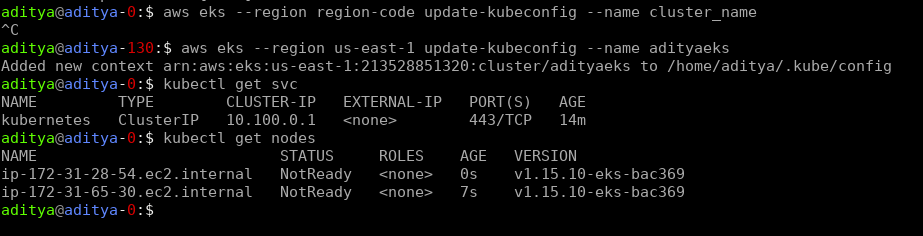


* + Create an EKS cluster.

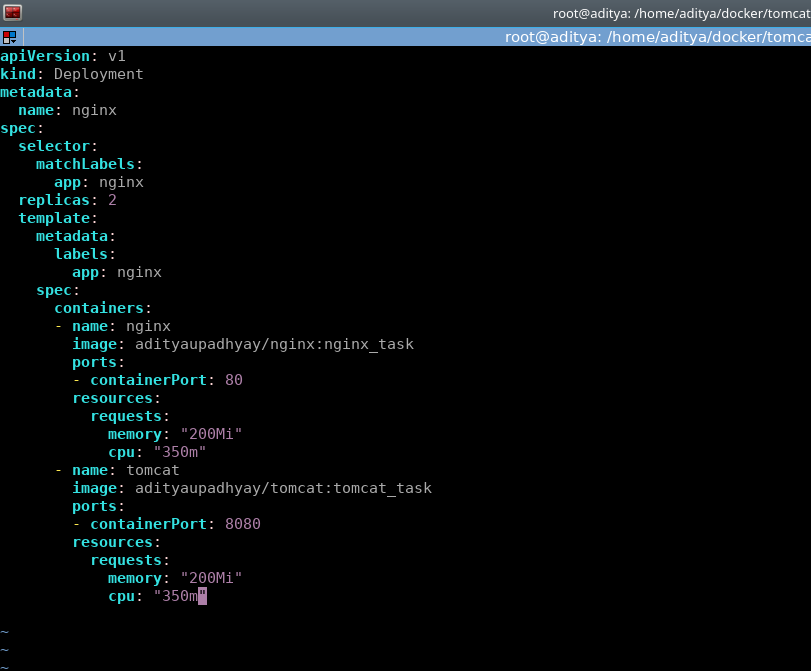


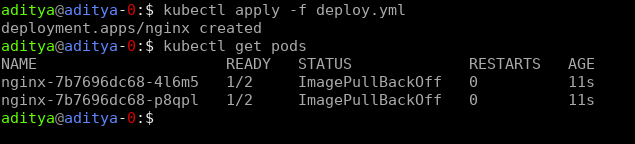


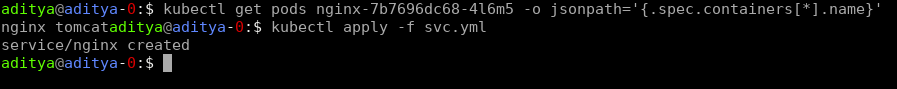


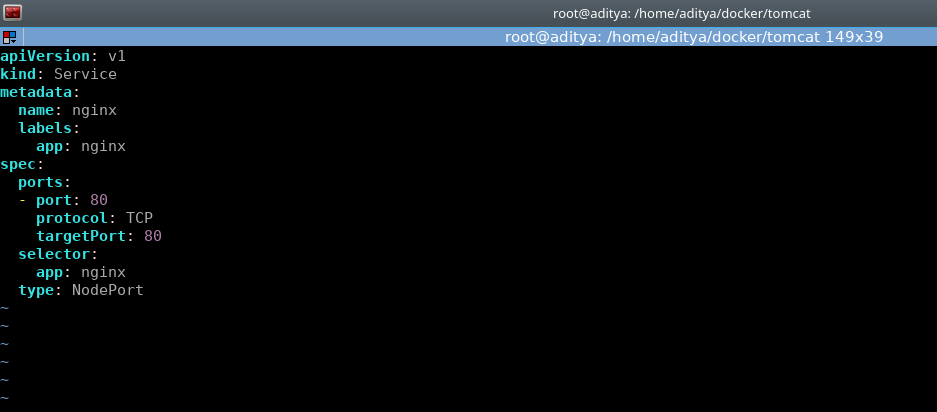


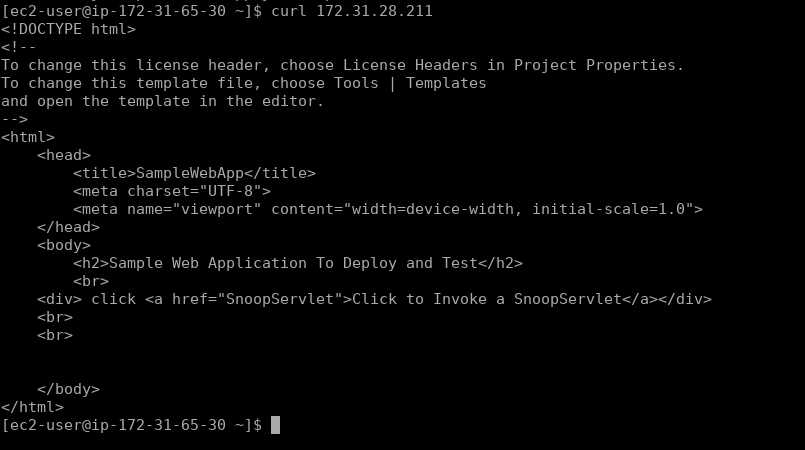
* + Serve the application in tomcat using nginx and EKS service.

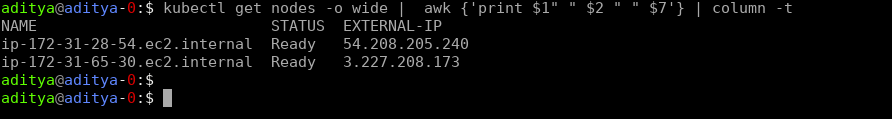




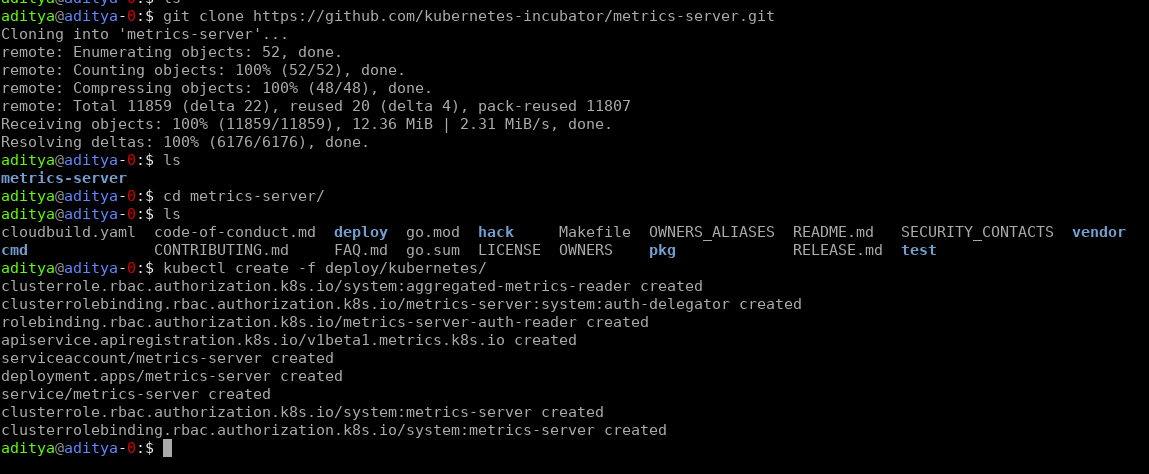


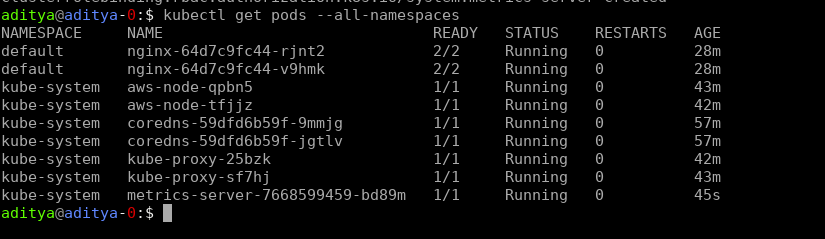


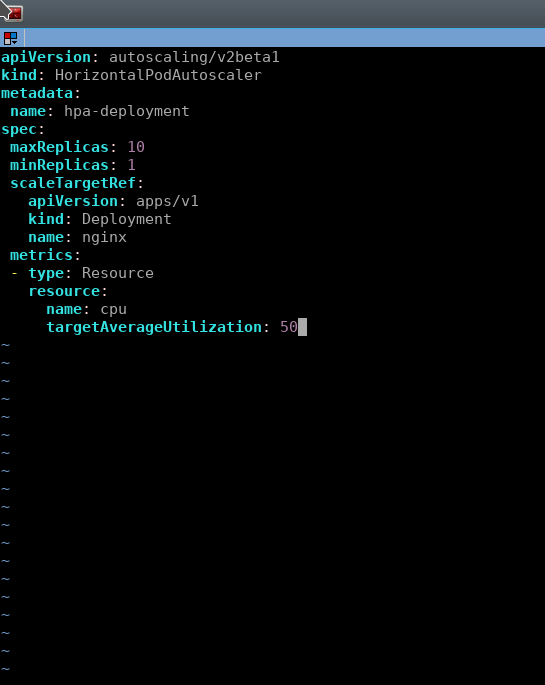


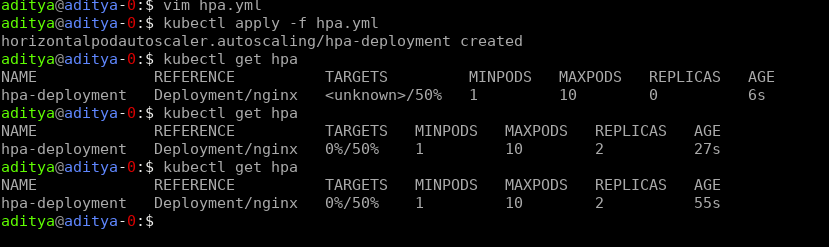


* + Create service and hpa on basis of CPU util for this deployment





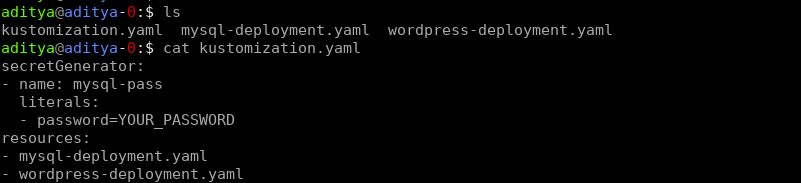


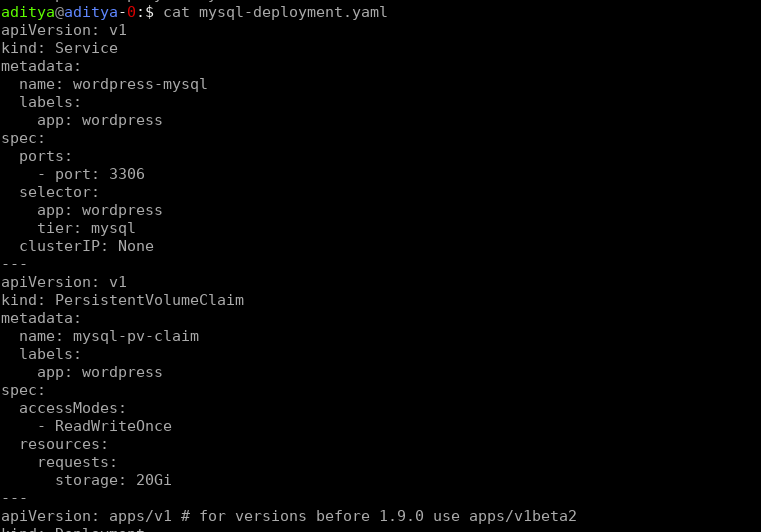


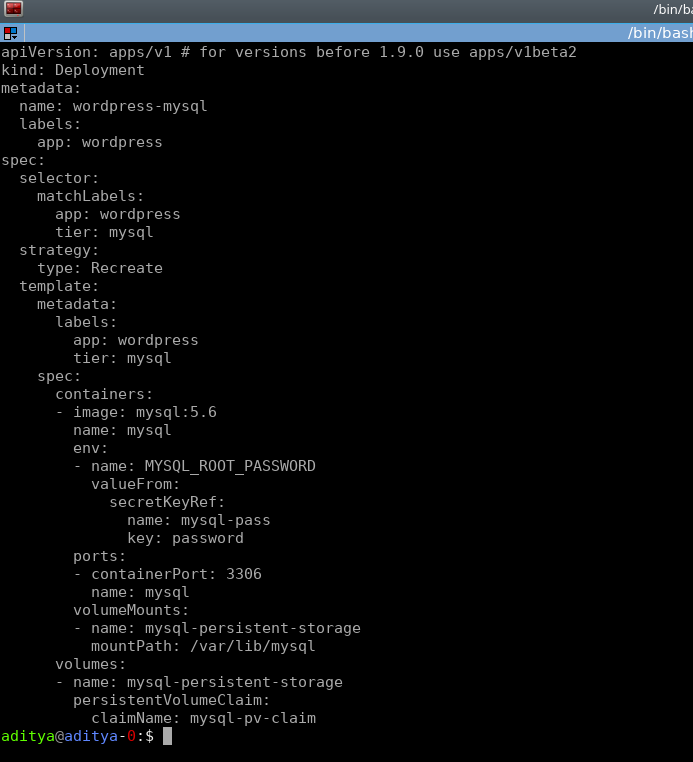
* Project 3 : Deploy Wordpress on this cluster and it should connect to a MySQL installed on Kubernetes. Using PVC

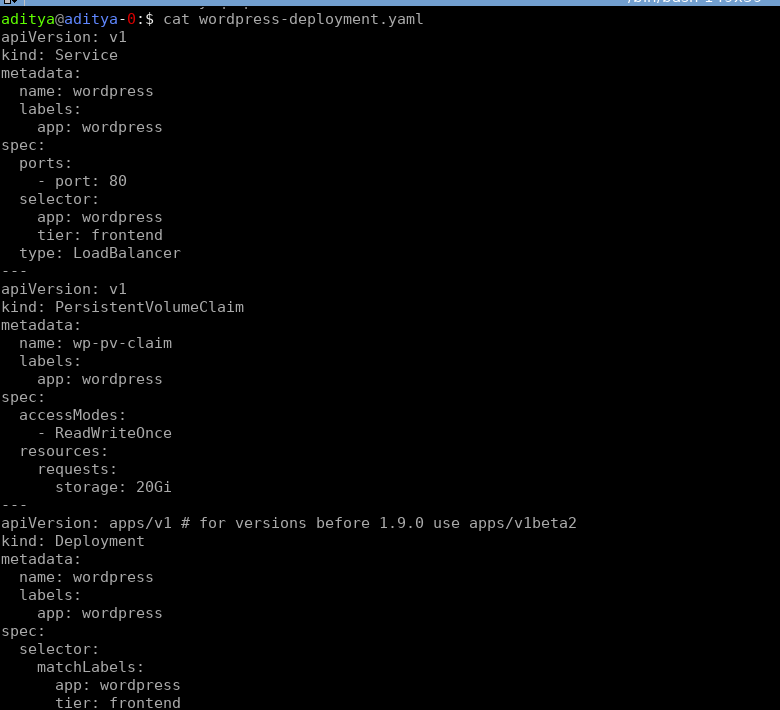
A PersistentVolume (PV) is a piece of storage in the cluster that has been provisioned by an administrator. It is a resource in the cluster just like a node is a cluster resource.

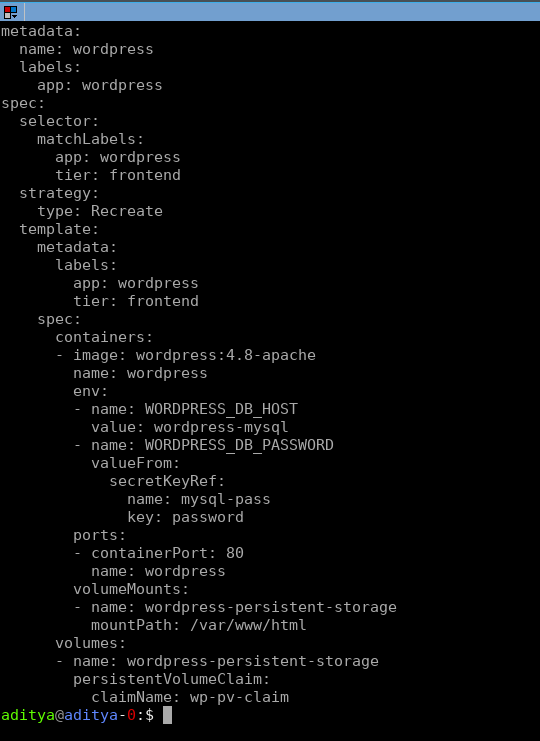
A PersistentVolumeClaim (PVC) is a request for storage by a user. It is similar to a pod. Pods consume node resources and PVCs consume PV resources.

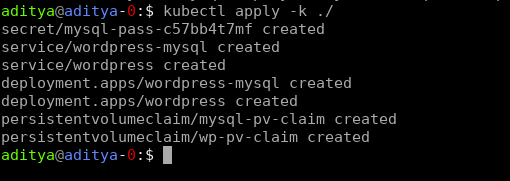


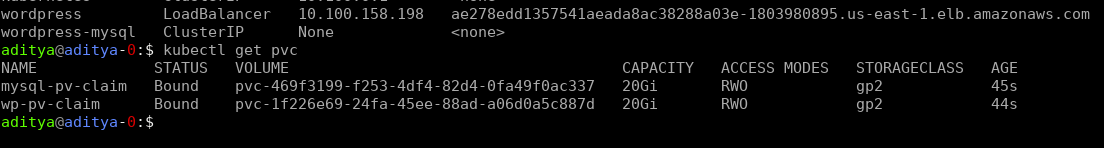












* Project 4: Create a bash script which lists all the security group rules and delete all the rules in which public access is allowed except 80 and 443 ports.

