Documentation for project

* Steps to achive task.

Step 1: Using any IaC (CFT) create the same infra which is depicted.

with appropriate user data for installation of Jenkins,Ansible and Tomcat.

* Created Network stack.
  + VPC : 172.16.0.0/16
  + Public Subnet: 172.16.10.0/24
  + Private Subnet: 172.16.20.0/24
* Created Server stack.
  + EC2 server in Public Subnet with ansible and jenkins installed.
  + EC2 server in Private Subnet with tomcat/docker installed.
* Configure the Public Server
* SSH to the server using Putty.
* Setup the ansible
* added the private ip to the /etc/hosts file
* generate the key using ssh-keygen
* copy the key to tomcat server using ssh-copy-id
* Copy the Admin password for login to jenkins dashboard from the path /var/lib/jenkins/secrets/initialAdminPassword.
* Access the Dashboard using publicip:8080
* Paste the initial Admin Password
* Click on Install Suggested Plugins
* Created the admin user by filling the details
* Installed Plugins i.e gradle,docker. Go to Jenkins Dashboard -> Manage Jenkins -> Manage Plugins -> Under available tab->Search for Requird plugins.
* Setup the path for the JDK Go to Jenkins Dashboard -> Manage Jenkins ->Global Tool Configuration > JDK > Give a Name > Give appropriate path to JDK e.g usr/lib/jvm/java-1.8.0-openjdk
* Setup Gradle Go to Jenkins Dashboard -> Manage Jenkins ->Global Tool Configuration > Gradle> Give a Name
* Configure the Private Server
* SSH to the server from the public server using private ip
* Added the private ip to the /etc/hosts file
* set the password for the ec2-user i.e passwd ec2-user
* make the change to PasswordAuthentication to yes in the /etc/ssh/sshd\_config file
* Created the jenkins pipeline from jenkins console and configure it.
* Kept the all the necessary files on git hub repository
* Ansible.yml
* Ansible.cfg
* Inventory
* Docker