ubuntu@ip-172-31-26-85:~$ cat play.yaml

---

- name: install Jenkins and Java on Machine-1

become: true

hosts: localhost

tasks:

- name: running script1

script: script1.sh

- name: install K8s and Java on Machine-1

become: true

hosts: master

tasks:

- name: running script2

script: script2.sh

- name: install K8s on Machine-1

become: true

hosts: slaves

tasks:

- name: running script3

script: script3.sh

ubuntu@ip-172-31-26-85:~$ cat script1.sh

sudo apt update

sudo apt install openjdk-11-jdk -y

curl -fsSL https://pkg.jenkins.io/debian/jenkins.io-2023.key | sudo tee \

/usr/share/keyrings/jenkins-keyring.asc > /dev/null

echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \

https://pkg.jenkins.io/debian binary/ | sudo tee \

/etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt-get update

sudo apt-get install jenkins -y

ubuntu@ip-172-31-26-85:~$ cat script2.sh

sudo apt update

sudo apt install openjdk-11-jdk -y

sudo apt install docker.io -y

sudo apt update

sudo apt upgrade -y

sudo apt install -y curl apt-transport-https ca-certificates software-properties-common

curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -

sudo add-apt-repository "deb http://apt.kubernetes.io/ kubernetes-xenial main"

sudo swapoff -a

sudo apt update

sudo apt install -y kubelet kubeadm kubectl

ubuntu@ip-172-31-26-85:~$ cat script3.sh

sudo apt update

sudo apt install docker.io -y

sudo apt update

sudo apt upgrade -y

sudo apt install -y curl apt-transport-https ca-certificates software-properties-common

curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -

sudo add-apt-repository "deb http://apt.kubernetes.io/ kubernetes-xenial main"

sudo swapoff -a

sudo apt update

sudo apt install -y kubelet kubeadm kubectl

ubuntu@ip-172-31-26-85:~$

Main.tf

provider "aws" {

region = "us-east-2"

access\_key = " "

secret\_key = " "

}

resource "aws\_instance" "K8s-Master" {

ami = "ami-0430580de6244e02e"

instance\_type = "t2.medium"

key\_name = "Sameer"

tags = {

Name = "Machine-3"

}

}

resource "aws\_instance" "K8s-Slave1" {

ami = "ami-0430580de6244e02e"

instance\_type = "t2.micro"

key\_name = "Sameer"

tags = {

Name = "Machine-2"

}

}

resource "aws\_instance" "K8s-Slave2" {

ami = "ami-0430580de6244e02e"

instance\_type = "t2.micro"

key\_name = "Sameer"

tags = {

Name = "Machine-4"

}

}

pipeline {

agent none

environment {

DOCKERHUB\_CREDENTIALS=credentials('d5f39c1e-a640-4c40-9ad8-76f0a3d165a3')

}

stages {

stage('Hello') {

steps {

echo 'Hello World'

}

}

stage('Git') {

agent {

label 'K8s-Master'

}

steps {

git 'https://github.com/Sameer-8080/website.git'

}

}

stage('Docker') {

agent {

label 'K8s-Master'

}

steps {

sh 'sudo docker build /home/ubuntu/jenkins/workspace/testpipeline -t intellipaatsai/project2'

sh 'sudo echo $DOCKERHUB\_CREDENTIALS\_PSW | sudo docker login -u $DOCKERHUB\_CREDENTIALS\_USR --password-stdin'

sh 'sudo docker push intellipaatsai/project2'

}

}

stage('K8s') {

agent {

label 'K8s-Master'

}

steps {

sh 'kubectl delete deploy nginx-deployment'

sh 'kubectl apply -f deployment.yaml'

sh 'kubectl apply -f service.yaml'

}

}

}

}

https://github.com/Sameer-8080/website.git