Automation - Jenkins AWS ubuntu EC2 instance using user data bash scripting

This assignment will install java-11 and Jenkins on ubuntu ec2 instance using automation via bash script which is given in user data while creating ec2 instance in aws console. When instance get into running state and passed health check status server will be ready and you can check on it that Jenkins and java is already installed on it already. And your Jenkins is up and running on port 8080

Step1:

Launch instance

Select security group having port 8080 enabled, because Jenkins run on port 8080

User data for installation

User data - *optional* Info

Enter custom user data into the field below

```
#!/bin/bash

sudo apt-get update
sudo apt install openjdk-11-jdk -y
wget -q -O - http://pkg.jenkins-ci.org/debian/jenkins-ci.org.key | sudo apt-key add
-
sudo sh -c 'echo deb http://pkg.jenkins-ci.org/debian-stable binary/ >
/etc/apt/sources.list.d/jenkins.list'
sudo apt update
sudo apt install jenkins -y
sudo systemctl start jenkins
sudo systemctl enable jenkins
```

☐ User data has already been base64 encoded

Bash script for Jenkins installation:

#!/bin/bash

sudo apt-get update

sudo apt install openjdk-11-jdk -y

wget -q -O - http://pkg.jenkins-ci.org/debian/jenkins-ci.org.key | sudo apt-key add -

sudo sh -c 'echo deb http://pkg.jenkins-ci.org/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'

sudo apt update

sudo apt install jenkins -y

sudo systemctl start jenkins
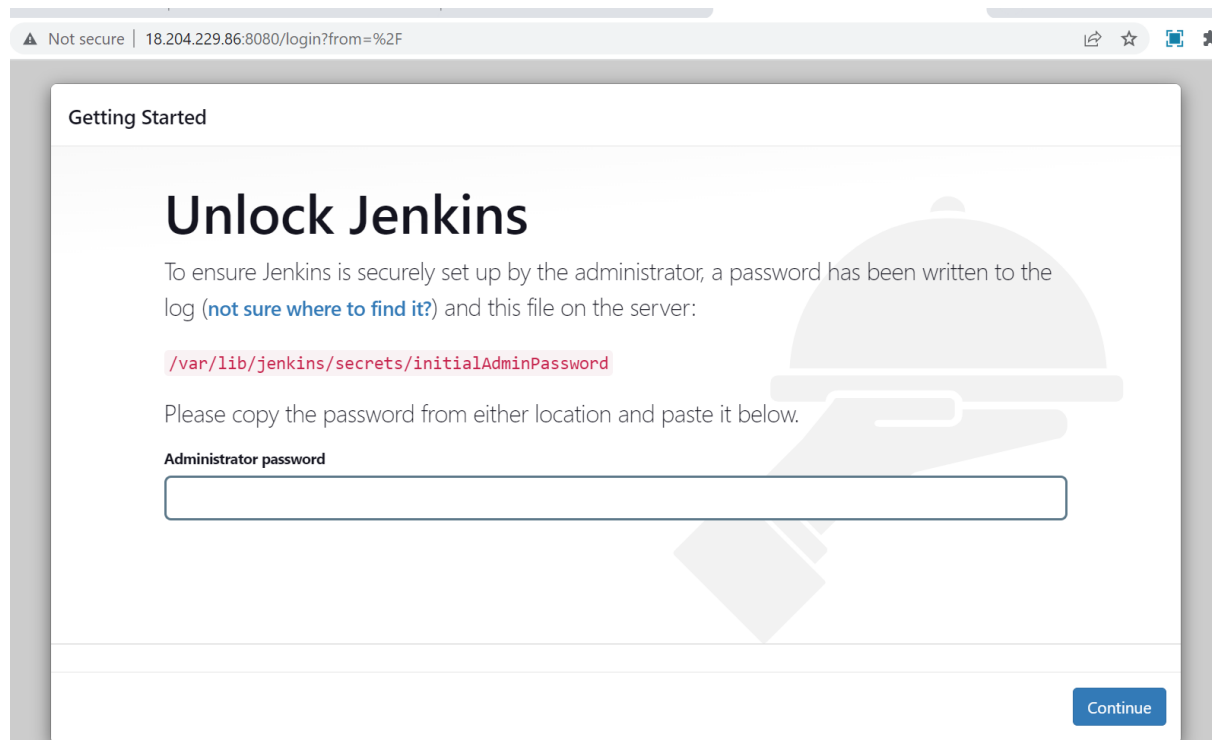
sudo systemctl enable jenkins

Instance is in running state

	Name	Instance ID	Instance state ▽	Instance type ▽	Status check	Alarm status	Availability Zone ▽	Public IPv4 DNS
☐	jenkins-auto	i-07658d72dd1e15ed9	⊘ Running ⊕⊖	t2.micro	⊘ 2/2 checks passed	No alarms ➕	us-east-1c	ec2-18-204-229-86.c

Instances (1) Info

🔍 Find instance by attribute or tag (case-sensitive)

Instance state = running ✕   Clear filters

Connect   Instance state ▼   Actions ▼   Launch instances ▼

Check on port 8080 jenkins is running

Checking status of java and jenkins