Create 3 servers in AWS .
FOR - ANSIBLE , JENKINS – t2.micro – UBUNTU / LINUX .
MINICUBE single node server FOR WEBAPP – t2.medium – UBUNTU / LINUX

Install Jenkins in Jenkins server .

For ubuntu :

```
 2  sudo apt-get update -y
 4  java --version
 6  sudo apt install openjdk-11-jre
 7  java --version
 8  sudo apt install wget
10  wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key |sudo gpg --dearmor -o
/usr/share/keyrings/jenkins.gpg
11  sudo sh -c 'echo deb [signed-by=/usr/share/keyrings/jenkins.gpg] http://pkg.jenkins.io/debian-stable binary/
> /etc/apt/sources.list.d/jenkins.list'
12  sudo apt update
13  sudo apt install jenkins
14  sudo systemctl start jenkins.service
15  sudo systemctl status jenkins
16  telnet localhost 8080
```

For RHEL :

```
sudo yum update
sudo yum upgrade
sudo yum install java
sudo yum install wget
sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo # add jenkins repo
to rhel server
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key #import keys
sudo yum install Jenkins
sudo systemctl start Jenkins
sudo systemctl status Jenkins
sudo yum install telnet
telnet localhost 8080 # check whther Jenkins services atre running on port 8080 or not
sudo yum install git
```
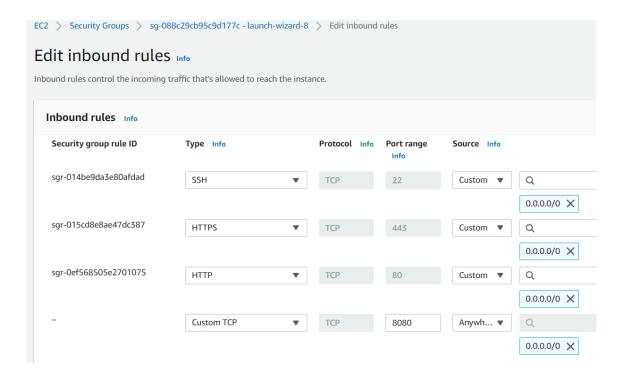
Also add inbound rule for port 8080 in security group .

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules Info

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	
sgr-014be9da3e80afdad	SSH ▼	TCP	22	Custom ▼	Q
					0.0.0.0/0 ✕
sgr-015cd8e8ae47dc387	HTTPS ▼	TCP	443	Custom ▼	Q
					0.0.0.0/0 ✕
sgr-0ef568505e2701075	HTTP ▼	TCP	80	Custom ▼	Q
					0.0.0.0/0 ✕
–	Custom TCP ▼	TCP	8080	Anywh... ▼	Q
					0.0.0.0/0 ✕

Jenkins will be accessible. Install all plugins .

INSTALL ansible in ansible server and docker also .

For ubuntu :
  1 sudo apt update && sudo apt upgrade
  2 sudo apt install ansible
  3 ansible --version
  4 sudo apt install docker.io
sudo usermod -a -G docker appadmin
sudo reboot now

PLUGIN REQUIRED : ssh agent

Q   ssh agent

Install   Name ↓

☑   SSH Agent 327.v230ecd01f86f
This plugin allows you to provide SSH credentials to builds via a ssh-agent in Jenkins.