

INSTALLATION OF JENKINS IN UBUNTU EC2 INSTANCE:-

```
sudo apt update
sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install fontconfig openjdk-17-jre
sudo apt-get install jenkins
sudo systemctl start jenkins
sudo systemctl enable jenkins
sudo systemctl status jenkins
```

KUBERNETES SETUP:-

```
nano kube.sh
#!/bin/bash
sudo apt-get update
##First install Docker
sudo apt-get install -y apt-transport-https ca-certificates curl software-properties-common

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu
$(lsb_release -cs) stable"

sudo apt-get update ; clear
sudo apt-get install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-
compose-plugin

##Then install Kubernetes
echo "deb http://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee
/etc/apt/sources.list.d/kubernetes.list

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

sudo apt-get update ; clear
sudo apt-get install -y kubelet=1.23.0-00 kubeadm=1.23.0-00 kubectl=1.23.0-00
chmod +x kube.sh
./kube.sh
sudo kubeadm init --ignore-preflight-errors=all
kubectl apply -f
```

<https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml>
`kubectl get nodes`

LOCALHOST:80 ISSUE TACKLE PROCESS:-

`mkdir $HOME/.kube` (in slave machine)

`cd /etc/kubernetes`

`nano admin.conf`

paste the admin.conf file of master machine in slave machine