**Terraform Installation:**

<https://developer.hashicorp.com/terraform/cli/install/apt(terraform> command installation link)

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**Jenkins Installation :**

<https://www.jenkins.io/doc/book/installing/linux/#debianubuntu(jenkins> installation command link)

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**Kubernetes Installation**

**(Master and Slave both)**

**sudo apt update -y**

**sudo apt-get install docker.io -y**

**sudo apt-get install openjdk-11-jdk -y (for Jenkins)**

**--------------------------------------------------------------------**

**( install.sh )**

**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**](https://packages.cloud.google.com/apt/doc/apt-key.gpg) **| sudo apt-key add -**

**sudo add-apt-repository "deb** [**http://apt.kubernetes.io/**](http://apt.kubernetes.io/) **kubernetes-xenial main"**

**sudo swapoff -a**

**sudo apt update**

**sudo apt install -y kubelet kubeadm kubectl**

**------------------------------------------------------------------------**

**(Master Node only )**

**sudo su**

**hostnamectl set-hostname master**

**exec bash**

**kubeadm init (this will generate the join token command which needs to be executed on the worker node)**

**mkdir -p $HOME/.kube**

**sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config**

**sudo chown $(id -u):$(id -g) $HOME/.kube/config**

**kubectl apply -f** [**https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml**](https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml)

**kubectl get nodes**

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**­­­­­­­­­­­­­­­­­(Worker Node)**

**sudo su**

**(paste the token generated by control plane)**

**hostnamectl set-hostname worker**

**exec bash**

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**GitHub link :-** '<https://github.com/intellipaat2/website.git>'

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