

<https://kubernetes.io/docs/setup/production-environment/tools/kubeadm/install-kubeadm/>

Steps to Install Kubernetes on Ubuntu 20

Create 3 [Ubuntu 20.04 LTS - Focal](#) linux servers with T2.medium (min 3 to 4 gb)

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Q ubuntu

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 **Ubuntu 20.04 LTS - Focal**
By [Canonical Group Limited](#) | Ver Ubuntu 20.04 20240723
★★★★☆ 4 AWS reviews

Lean, fast and powerful, Ubuntu Server delivers services reliably, predictably and economically. It is the perfect base on which to build your instances. Ubuntu is free and will always be, and you have the option to get support and Landscape

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Set up Docker

ON 3 servers(on master and nodes)

- 1) Create 3 aws ec2 instance with ubuntu 20 and t2.medium
- 2) `sudo apt-get update`
- 3) `sudo apt-get install docker.io -y`
- 4) `sudo systemctl enable docker`
- 5) `sudo systemctl restart docker`

Install Kubernetes

ON 3 servers(on master and nodes)

- 6) `sudo apt-get update`
- 7) `sudo apt-get install -y apt-transport-https ca-certificates curl gpg`
- 8) `sudo mkdir -p -m 755 /etc/apt/keyrings`
- 9) `curl -fsSL https://pkgs.k8s.io/core:/stable:/v1.30/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-apt-keyring.gpg`
- 10) `echo 'deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.30/deb/ /' | sudo tee /etc/apt/sources.list.d/kubernetes.list`
- 11) `sudo apt-get update`
- 12) `sudo apt-get install -y kubelet kubeadm kubectl`
- 13) `sudo apt-mark hold kubelet kubeadm kubectl`
- 14) `sudo systemctl enable --now kubelet`

ON Master only:

- 12) `sudo kubeadm init --pod-network-cidr=10.244.0.0/16`
- 15) `mkdir -p $HOME/.kube`
- 16) `sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config`
- 17) `sudo chown $(id -u):$(id -g) $HOME/.kube/config`
- 18) `sudo kubectl apply -f https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml`

ON ALL NODES:

19) `kubeadm join --discovery-token abcdef.1234567890abcdef
--discovery-token-ca-cert-hash sha256:1234..cdef 1.2.3.4:6443`

ON Master:

20) `kubectl get nodes`

21) `kubectl get pods`