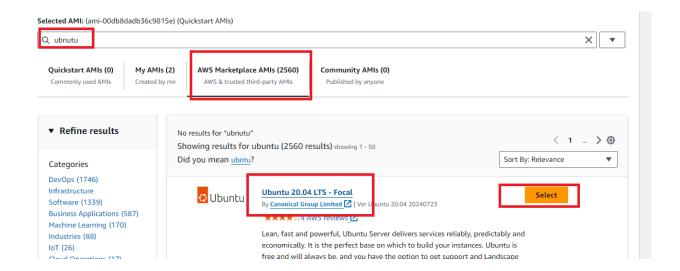
https://kubernetes.io/docs/setup/production-environment/tools/kubeadm/install-kubeadm/

Steps to Install Kubernetes on Ubuntu 20

Create 3 <u>Ubuntu 20.04 LTS - Focal</u> linux servers with T2.medium (min 3 to 4 gb)



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