* su – password=root
* sudo yum update -y
* sudo visudo ====dhpcsa ALL=(ALL) ALL
* exit
* sudo yum update -y
* sudo nano /etc/modules-load.d/containerd.conf

overlay

br\_netfilter

* sudo modprobe overlay
* sudo modprobe br\_netfilter
* sudo nano /etc/sysctl.d/k8s.conf

net.bridge.bridge-nf-call-iptables = 1

net.ipv4.ip\_forward = 1

net.bridge.bridge-nf-call-ip6tables = 1

* sudo sysctl –system
* sudo nano /etc/fstab
* last give # to swap
* sudo dnf config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
* sudo yum install containerd.io -y
* sudo containerd config default | sudo tee /etc/containerd/config.toml >/dev/null 2>&1
* sudo nano /etc/containerd/config.toml

SystemdCgroup = true

* sudo systemctl restart containerd
* sudo systemctl enable containerd
* sudo systemctl status containerd
* sudo nano /etc/yum.repos.d/kubernetes.repo

[kubernetes]

name=Kubernetes

baseurl=https://pkgs.k8s.io/core:/stable:/v1.29/rpm/

enabled=1

gpgcheck=1

gpgkey=https://pkgs.k8s.io/core:/stable:/v1.29/rpm/repodata/repomd.xml.key

exclude=kubelet kubeadm kubectl cri-tools kubernetes-cni

* sudo yum install -y kubelet kubeadm kubectl --disableexcludes=Kubernetes
* sudo systemctl enable --now kubelet
* sudo systemctl enable kubelet

now clone

* sudo hosnamectl set-hostname master
* sudo hostname master
* ifconfig

master=

* free
* sudo firewall-cmd --permanent --add-port={6443,2379,2380,10250,10251,10252,10257,10259,179}/tcp
* sudo firewall-cmd --permanent --add-port=4789/udp
* sudo firewall-cmd –reload
* sudo kubeadm init --pod-network-cidr=10.244.0.0/16 --apiserver-advertise-address=(master ip)
* sudo nano tokenfile
  + - type token
* cd
* mkdir .kube
* sudo cp /etc/ kubernetes/admin.conf .kube/config
* sudo chmown dhpcsa:dhpcsa . .kube/config
* kubectl apply -f <https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml>
* sudo chmod +x tokenfile
* scp tokenfile node1:/home/dhpcsa
* scp tokenfile node2:/home/dhpcsa

node1 and node2

* sudo firewall-cmd --permanent --add-port={179,10250,30000-32767}/tcp
* sudo firewall-cmd --permanent --add-port=4789/udp
* sudo firewall-cmd –reload
* sudo ./tokenfile

master

* kubectl get nodes