Cluster creating

```
# Turn off swap memory
swapoff -a

# Init Kubernetes
sudo kubeadm init --pod-network-cidr=192.168.0.0/16

# Join the node
sudo kubeadm join ...

# Test you have 2 nodes here
kubectl get nodes
```

CNI (Calico)

```
# Apply Tigera operator
kubectl create -f
https://raw.githubusercontent.com/projectcalico/calico/v3.25.0/manifests/tigera
-operator.yaml

# Apply Custom Resources
kubectl create -f
https://raw.githubusercontent.com/projectcalico/calico/v3.25.0/manifests/custom
-resources.yaml

# Test your pods are spawned
kubectl get all --all-namespaces

# If you have pending pods, then run these commands:
# Some control-plane pods have a certain window of time
# in which they can be spawned on a node with certain taints.
# Restarting kubelet will renew that windows
sudo systemctl restart containerd
sudo systemctl restart kubelet
```

Services and Deployments

```
# Get backend deployment yaml
wget https://k8s.io/examples/service/access/backend-deployment.yaml

# Get the backend service deployment yaml
wget https://k8s.io/examples/service/access/backend-service.yaml

# Get the frontend deployment yaml
wget https://k8s.io/examples/service/access/frontend-deployment.yaml

# Get the frontend service yaml
wget https://k8s.io/examples/service/access/frontend-service.yaml
```

Network Policies

```
# Get the egress network policy
curl https://pastebin.com/raw/r8yMDSaK > network_policy_egress.yaml

# Get the ingress network policy
curl https://pastebin.com/raw/Sjgz3yRt > network_policy_ingress.yaml
```