You should now deploy a pod network to the cluster.

Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:

https://kubernetes.io/docs/concepts/cluster-administration/addons/

You can now join any number of the control-plane node running the following command on each as root:

kubeadm join 192.168.2.150:6443 --token maev95.jqvd0kos50mnbge7 \

--discovery-token-ca-cert-hash sha256:cf23916beec0289b1928075b6523888028d44b0f111cc1641db3dc24ca80a639 \

--control-plane --certificate-key f557f08619f9043f6ce6a724ff2ca47cc82b43f4661d7a82d8dcf80ba400ebb0

Please note that the certificate-key gives access to cluster sensitive data, keep it secret!

As a safeguard, uploaded-certs will be deleted in two hours; If necessary, you can use

"kubeadm init phase upload-certs --upload-certs" to reload certs afterward.

Then you can join any number of worker nodes by running the following on each as root:

kubeadm join 192.168.2.150:6443 --token maev95.jqvd0kos50mnbge7 \

--discovery-token-ca-cert-hash sha256:cf23916beec0289b1928075b6523888028d44b0f111cc1641db3dc24ca80a639

error when retrieving current configuration of:

Resource: "/v1, Resource=namespaces", GroupVersionKind: "/v1, Kind=Namespace"

Name: "kube-flannel", Namespace: ""

from server for: "https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml": Get "https://192.168.2.150:6443/api/v1/namespaces/kube-flannel": dial tcp 192.168.2.150:6443: connect: connection refused - error from a previous attempt: http2: server sent GOAWAY and closed the connection; LastStreamID=13, ErrCode=NO\_ERROR, debug=""

error when retrieving current configuration of:

Resource: "/v1, Resource=serviceaccounts", GroupVersionKind: "/v1, Kind=ServiceAccount"

Name: "flannel", Namespace: "kube-flannel"

from server for: "https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml": Get "https://192.168.2.150:6443/api/v1/namespaces/kube-flannel/serviceaccounts/flannel": dial tcp 192.168.2.150:6443: connect: connection refused

error when retrieving current configuration of:

Resource: "rbac.authorization.k8s.io/v1, Resource=clusterroles", GroupVersionKind: "rbac.authorization.k8s.io/v1, Kind=ClusterRole"

Name: "flannel", Namespace: ""

from server for: "https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml": Get "https://192.168.2.150:6443/apis/rbac.authorization.k8s.io/v1/clusterroles/flannel": dial tcp 192.168.2.150:6443: connect: connection refused

error when retrieving current configuration of:

Resource: "rbac.authorization.k8s.io/v1, Resource=clusterrolebindings", GroupVersionKind: "rbac.authorization.k8s.io/v1, Kind=ClusterRoleBinding"

Name: "flannel", Namespace: ""

from server for: "https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml": Get "https://192.168.2.150:6443/apis/rbac.authorization.k8s.io/v1/clusterrolebindings/flannel": dial tcp 192.168.2.150:6443: connect: connection refused

error when retrieving current configuration of:

Resource: "/v1, Resource=configmaps", GroupVersionKind: "/v1, Kind=ConfigMap"

Name: "kube-flannel-cfg", Namespace: "kube-flannel"

from server for: "https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml": Get "https://192.168.2.150:6443/api/v1/namespaces/kube-flannel/configmaps/kube-flannel-cfg": dial tcp 192.168.2.150:6443: connect: connection refused

error when retrieving current configuration of:

Resource: "apps/v1, Resource=daemonsets", GroupVersionKind: "apps/v1, Kind=DaemonSet"

Name: "kube-flannel-ds", Namespace: "kube-flannel"

from server for: "https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml": Get "https://192.168.2.150:6443/apis/apps/v1/namespaces/kube-flannel/daemonsets/kube-flannel-ds": dial tcp 192.168.2.150:6443: connect: connection refused

ChatGPT

The errors indicate that the master node's API server is not accessible, and the network addon (Flannel) cannot be applied. Here’s how to troubleshoot and resolve the issues:

**1. Verify Master Node Initialization**

Run the following commands on the master node (192.168.2.150) to ensure the Kubernetes components are running:

bash

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sudo systemctl status kubelet

sudo systemctl status docker

kubectl get pods -A

* **If kubelet or docker is not running**, restart them:

bash

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sudo systemctl restart kubelet

sudo systemctl restart docker

* **If no pods are listed**, the cluster initialization might have failed. Re-run the initialization command:

bash

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sudo kubeadm reset -f

sudo kubeadm init --control-plane-endpoint=192.168.2.150 --upload-certs

**2. Check Networking and Firewall**

Ensure there is no firewall blocking port 6443 on the master node. Use the following commands:

* **On the master node:**

bash

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sudo ufw allow 6443

sudo ufw allow 8472

sudo ufw allow 10250

sudo ufw reload

* Verify that port 6443 is listening:

bash

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sudo netstat -tuln | grep 6443

**3. Reapply Flannel Network Plugin**

The errors suggest that Flannel could not be applied. To reapply it, ensure the master node is functional, then:

1. **Remove partially applied Flannel resources:**

bash

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kubectl delete -f https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml --ignore-not-found

1. **Apply the Flannel network plugin again:**

bash

Copy code

kubectl apply -f https://github.com/flannel-io/flannel/releases/latest/download/kube-flannel.yml

1. Verify Flannel pods are running:

bash

Copy code

kubectl get pods -n kube-flannel

**4. Joining Worker Nodes**

Once the master node is healthy, try joining the worker nodes again using the join command provided:

bash

Copy code

sudo kubeadm join 192.168.2.150:6443 --token maev95.jqvd0kos50mnbge7 \

--discovery-token-ca-cert-hash sha256:cf23916beec0289b1928075b6523888028d44b0f111cc1641db3dc24ca80a639

**5. Verify the Cluster Status**

On the master node, check the status of all nodes after joining:

bash

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kubectl get nodes

**If Issues Persist**

1. **Collect Logs for Debugging:**

bash

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sudo journalctl -u kubelet

kubectl logs <pod-name> -n kube-flannel

1. **Reset the Worker Nodes:** If a worker node fails to join, reset it:

bash

Copy code

sudo kubeadm reset -f

sudo systemctl restart kubelet

1. **Join the Cluster Again:** Retry the join command on the worker node.