

[23] Kubernetes Troubleshooting (1)

☐ Not Ready ☐☐☐ ☐☐ ☐☐☐

- A Kubernetes worker node, named `hk8s-w2` is in state `NotReady`.
- Investigate why this is the case, and perform any appropriate steps to bring the node to a `Ready` state, ensuring that any changes are made permanent.

- docker □ □ □ □ □ ?
- kubelet □ □ □ □ □ ?
- kube-proxy □ □ □ □ □ ?
- CNI □ □ □ □ □ ? (□ □ □ □ □ □ □ □ □ □ □ □ □ □)

→  Ready .

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```
[user@console ~]$ kubectl get nodes
hk8s-w2   NotReady

[user@console ~]$ ssh hk8s-w2

[user@hk8s-w2 ~]$ sudo -i

# docker running
[root@hk8s-w2 ~]# systemctl status docker
active
```

```
# kubelet running
[root@hk8s-w2 ~]# systemctl status kubelet
inactive 1 min disabled

# kubelet (--now)
[root@hk8s-w2 ~]# systemctl enable --now kubelet

[root@hk8s-w2 ~]# systemctl status kubelet
active 1 min

# kube-proxy running
[root@hk8s-w2 ~]# exit

[user@hk8s-w2 ~]$ exit

# kube-proxy CNI console
[user@console ~]$ kubectl get pods -n kube-system -o wide
calico 1/1 Running CNI
kube-proxy 1/1 Running
CNI 1/1 Running calico, flannel 1/1 Running
```

Task (5)

Given a partially-functioning Kubernetes cluster, identify symptoms of failure on the cluster. Determine the node, the failing service, and take actions to bring up the failed service and restore the health of the cluster. Ensure that any changes are made permanently.

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```
# 1. docker
# 1. docker
--> ssh root@node1 systemctl status docker
--> active 1 min systemctl start docker, systemctl enable docker

# 2. kubelet
--> ssh root@node1 systemctl status kubelet
--> active 1 min systemctl start kubelet, systemctl enable kubelet
```

```
# 3. kube-proxy
# 4. CNI
--> console
--> kubectl get pods -n kube-system -o wide
```

Task (32%)

A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.

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```
# 1. docker
# 1. docker
--> ssh systemctl status docker
--> active systemctl start docker, systemctl enable docker

# 2. kubelet
--> ssh systemctl status kubelet
--> active systemctl start kubelet, systemctl enable kubelet

# 3. kube-proxy
# 4. CNI
--> console
--> kubectl get pods -n kube-system -o wide
```

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