TroubleShoot Kubernetes Cluster

K8s : TroubleShooting Cluster

K8s TroubleShooting

- ➔ Kube API Server
- ➔ Check Node Status
- ➔ Check K8s Services
- ➔ Checking System Pods
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Kube API Server

- If Kube **API Server** is down, user won't be able to use **Kubectl** to Interact with Cluster.

- User may get the error message look like -
  The connection to the server localhost:6443 was refused - did you specify the right host and port?

- **Possible Fixes** : Make Sure Docker and Kubelet services are up and running on your master node(s).

Check Node Status

- Check the status of Nodes to get the Node(s) Health Data.
  Kubectl get nodes

- Use Kubectl describe node to get more information of Node.
  Kubectl describe node <node-name>

Check Node Status

- If node having problem, it may be because service is down on that node.
  sudo systemctl status kubelet

- Each node run kubelet and docker services.

Check Service Status

sudo systemctl status kubelet

Start Service if Down

sudo systemctl start kubelet

Enable Service, Service will starts automatically on system restart

sudo systemctl enable kubelet

Check System Pods

- In kubeadm K8s cluster, several K8s components run as a Pod in **kube-system** namespace.

- Check the Component status using -
  kubectl get pods -n kube-system

- Get the details of Failed Component-
  kubectl describe pod podname -n kube-system

Thank You...

Don’t be the Same! Be Better!!!