

Installation Raspberry Pi Ubuntu Server 64-bit

1. install control plane/- master
controller1\$: curl -sL https://get.k3s.io | INSTALL_K3S_EXEC="server \ -- C="--tls-san 192.168.1.10 -- node-taint CriticalAddonsOnly=true:NoExecute" sh -
2. generate a k3s token
controller1\$: sudo cat /var/lib/rancher/k3s/server/node-token > node-token.txt
3. ssh into worker[x] copy token
worker1\$: scp ubuntu@192.168.1.10:/home/ubuntu/node-token.txt /tmp/node-token.txt
4. install worker and join controller
worker1\$: curl -sL https://get.k3s.io | \ K3S_URL=https://192.168.1.7:6443 \ K3S_TOKEN=\$(cat /tmp/node-token.txt) \ sh -
5. check node installed and in 'Ready' state
controller\$: kubectl get nodes

Repeat Step 3 for every worker

Change IP Address of K3S nodes

- Remove any containers in the node
controller1\$: kubectl drain worker1 --ignore-daemonsets --delete-emptydir-data
- Remove the node from controller
controller1\$: kubectl delete node worker1
- Stop the worker k3s
worker1\$: sudo systemctl stop k3s-agent
- cleanup
worker\$: sudo rm -rf /etc/rancher /var/lib/rancher

Regular Install steps

Add on Additional Control Plane / Master

- Install curl -sL https://get.k3s.io | \ INSTALL_K3S_EXEC="server \ -- server https://192.168.1.10:6443 \ --token <token> \ --tls-san 192.168.1.11 \ --node-taint CriticalAddonsOnly=true:NoExecute \ --cluster-init=false" \ sh -

MacOS Administration Machine

1. MacOS Install Kubectl
brew install kubernetes-cli
2. MacOS verify
kubectl version --client
3. MacOS SSH into K3s control plane
\$> ssh ubuntu@192.x-xx.xxx
4. LINUX: Copy config to home drive
sudo cat /etc/rancher/k3s/k3s.yaml > k3s2.yaml
5. MacOS
scp ubuntu@192.168.1.7:/k3s2.yaml /Downloads/k3s.yaml

The kubeconfig file contains the credentials and endpoint information needed to connect securely to your K3s cluster. This file resides on your K3s server node

Development Workflow

- MACOS install Rancher Desktop
brew install --cask rancher
- MACOS Create project add docker file
FROM payara/micro:latest
COPY target/my-jsf-app.war /opt/payara/micro/deployments/
CMD ["--clustermode", "kubernetes"]



By Slobodan Lohja (slohja)
cheatography.com/slohja/

www.linkedin.com/in/slobodanlohja/

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