

Kubelet is the Kubernetes agent which runs on each worker node. Acting as a middleman between the Kubernetes control plane and the underlying container runtime, it coordinates the running of containers on the worker node. In this lesson, we will configure our `systemd` service for kubelet. After completing this lesson, you should have a `systemd` service configured and ready to run on each worker node.

You can configure the kubelet service like so. Run these commands on both worker nodes.

Set a `HOSTNAME` environment variable that will be used to generate your config files. Make sure you set the `HOSTNAME` appropriately for each worker node:

```
HOSTNAME=$(hostname)
sudo mv ${HOSTNAME}-key.pem ${HOSTNAME}.pem /var/lib/kubelet/
sudo mv ${HOSTNAME}.kubeconfig /var/lib/kubelet/kubeconfig
sudo mv ca.pem /var/lib/kubernetes/
```

Create the kubelet config file:

```
cat << EOF | sudo tee /var/lib/kubelet/kubelet-config.yaml
kind: KubeletConfiguration
apiVersion: kubelet.config.k8s.io/v1beta1
authentication:
  anonymous:
    enabled: false
  webhook:
    enabled: true
  x509:
    clientCAFile: "/var/lib/kubernetes/ca.pem"
authorization:
  mode: Webhook
clusterDomain: "cluster.local"
clusterDNS:
  - "10.32.0.10"
runtimeRequestTimeout: "15m"
tlsCertFile: "/var/lib/kubelet/${HOSTNAME}.pem"
tlsPrivateKeyFile: "/var/lib/kubelet/${HOSTNAME}-key.pem"
EOF
```

Create the kubelet unit file:

```
cat << EOF | sudo tee /etc/systemd/system/kubelet.service
[Unit]
Description=Kubernetes Kubelet
Documentation=https://github.com/kubernetes/kubernetes
After=containerd.service
Requires=containerd.service

[Service]
ExecStart=/usr/local/bin/kubelet \
  --config=/var/lib/kubelet/kubelet-config.yaml \
  --container-runtime=remote \
  --container-runtime-endpoint=unix:///var/run/containerd/containerd.sock \
  --image-pull-progress-deadline=2m \
  --kubeconfig=/var/lib/kubelet/kubeconfig \
  --network-plugin=cni \
  --register-node=true \
  --v=2 \
  --hostname-override=${HOSTNAME} \
  --allow-privileged=true
Restart=on-failure
RestartSec=5

[Install]
```

```
WantedBy=multi-user.target
EOF
```