**Upgrade from 1.25 to 1.27**

https://kubernetes.io/docs/tasks/administer-cluster/kubeadm/kubeadm-upgrade/

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install 1.25

follow all steps except below

(sudo apt-get install -y kubelet kubeadm kubectl)

(sudo apt-get install -y kubelet=1.25.0-00 kubeadm=1.25.0-00 kubectl=1.25.0-00)

kubectl version --output=yaml

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The upgrade workflow at high level is the following:

1) Upgrade a primary control plane node.

2) Upgrade additional control plane nodes.

3) Upgrade worker nodes.

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1.25 to 1.26

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(In Master)

apt update

apt-cache madison kubeadm

# find the latest 1.26 version in the list

# it should look like 1.26.x-00, where x is the latest patch

Upgrading control plane nodes

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Pick a control plane node that you wish to upgrade first. It must have the /etc/kubernetes/admin.conf file.

sudo -i

apt-mark unhold kubeadm && \

apt-get update && apt-get install -y kubeadm=1.26.0-00 && \

apt-mark hold kubeadm

kubeadm version

kubeadm upgrade plan

sudo kubeadm upgrade apply v1.26.0

Drain the node: Prepare the node for maintenance by marking it unschedulable and evicting the workloads

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exit (normal user)

kubectl drain <node-to-drain> --ignore-daemonsets

kubectl drain node1-vm --ignore-daemonsets

kubectl drain node2-vm --ignore-daemonsets

Upgrade kubelet and kubectl

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1) Upgrade the kubelet and kubectl:

sudo -i

apt-mark unhold kubelet kubectl && \

apt-get update && apt-get install -y kubelet=1.26.0-00 kubectl=1.26.0-00 && \

apt-mark hold kubelet kubectl

exit

2)Restart the kubelet:

sudo systemctl daemon-reload

sudo systemctl restart kubelet

Uncordon the node: Bring the node back online by marking it schedulable:

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kubectl uncordon <node-to-uncordon>

kubectl uncordon node2-vm

kubectl uncordon node1-vm

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Upgrade worker nodes(one node at a time)

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Upgrade kubeadm : (Node 1)

sudo -i

apt-mark unhold kubeadm && \

apt-get update && apt-get install -y kubeadm=1.26.0-00 && \

apt-mark hold kubeadm

exit

sudo kubeadm upgrade node (For worker nodes this upgrades the local kubelet configuration)

Drain the node(in Master)

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kubectl drain node1-vm --ignore-daemonsets

Upgrade the kubelet and kubectl:(Node 1)

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sudo -i

apt-mark unhold kubelet kubectl && \

apt-get update && apt-get install -y kubelet=1.26.0-00 kubectl=1.26.0-00 && \

apt-mark hold kubelet kubectl

Restart the kubelet:

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sudo systemctl daemon-reload

sudo systemctl restart kubelet

Uncordon the node(in Master)

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kubectl uncordon node1-vm

(Repeat all above steps in node2)

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