**Lab-1**

1)Setup and current version 2) Preparations 3) Upgrade control plane node 4) Upgrade worker nodes 5) Verify cluster status

**1) current version** : sudo kubeadm version

**2) Preparations** : sudo apt-mark unhold kubeadm

**3) Upgrade master nodes**

***Install new kubeadm***

sudo apt-get install -y kubeadm=<version>

sudo kubeadm version

sudo apt-mark hold kubeadm

***Drain first node and execute upgrade***

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

sudo kubeadm upgrade plan

sudo kubeadm upgrade apply v<major>.<minor>.<patch>

***Put master node back to work :*** kubectl uncordon <node>

***Upgrade kubelet and kubectl***

kubectl drain <node> --ignore-daemonsets

sudo apt-mark unhold kubelet kubectl

sudo apt-get install -y kubelet=<version> kubectl=<version>

sudo apt-mark hold kubelet kubectl

kubectl get nodes

sudo systemctl daemon-reload

sudo systemctl restart kubelet

kubectl get nodes

kubectl uncordon <node>

**4) Upgrade worker nodes**

***Upgrade kubeadm binaries***

sudo kubeadm version

sudo apt-mark unhold kubeadm

sudo apt-get install -y kubeadm=<version>

sudo apt-mark hold kubeadm

***Drain Node***

kubectl get nodes

kubectl drain <node> --ignore-daemonsets

***Upgrade kubeadm :*** sudo kubeadm ugprade <node>

***Upgrade kubelet and kubectl***

sudo apt-mark unhold kubelet kubectl

sudo apt-get install -y kubelet=<version> kubectl=<version>

sudo apt-mark hold kubelet kubectl

sudo systemctl daemon-reload

sudo systemctl restart kubelet

**Lab-2**

A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated with medium confidence

Text

Description automatically generated with medium confidence

Graphical user interface

Description automatically generated

**Lab-3**

A picture containing graphical user interface

Description automatically generated

**Lab-4**

Text

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