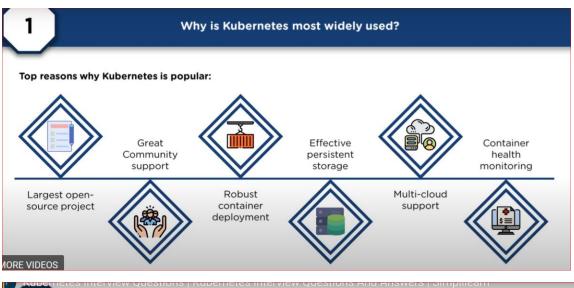
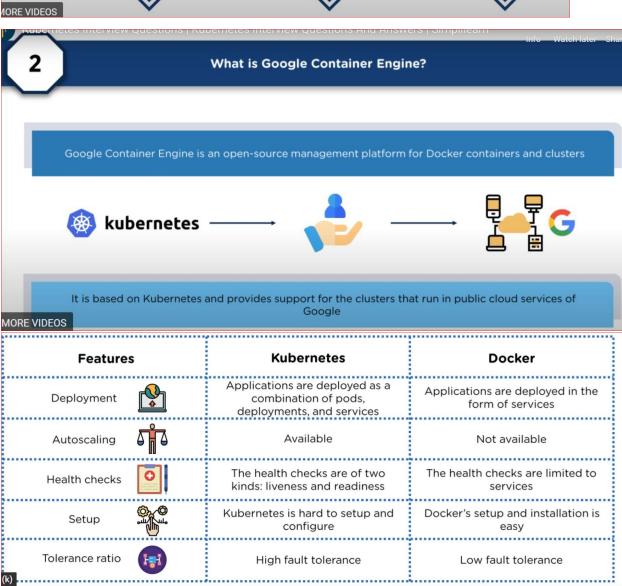
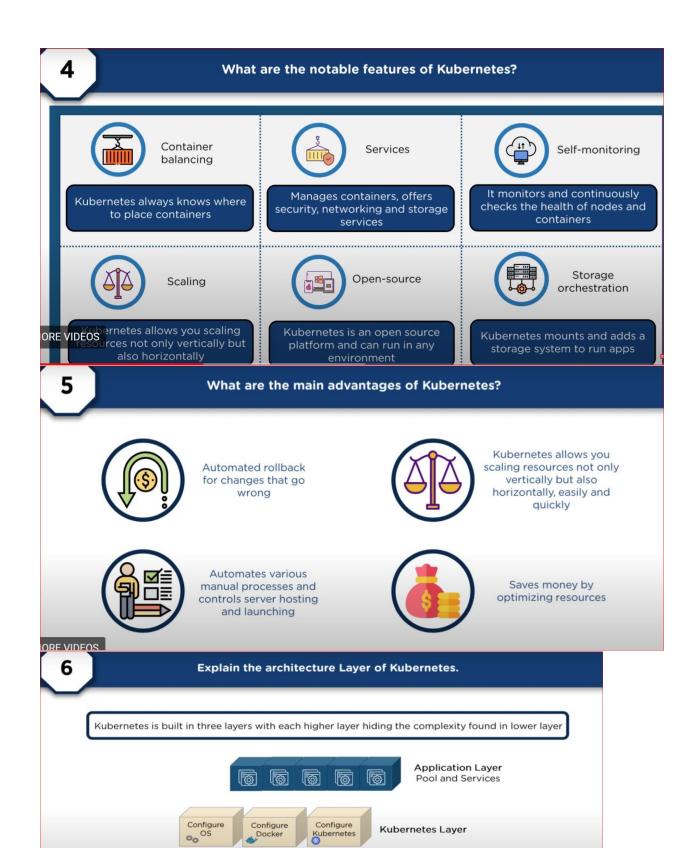
https://www.simplilearn.com/tutorials/kubernetes-tutorial/kubernetes-interview-questions

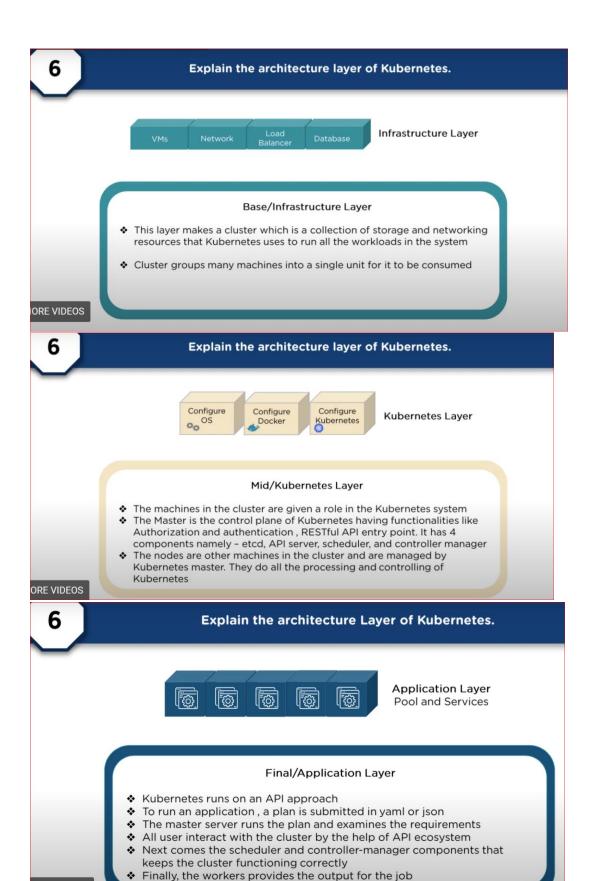




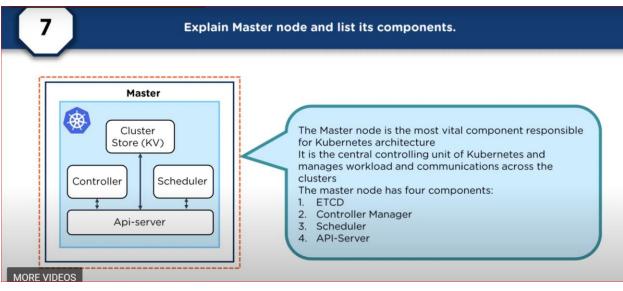


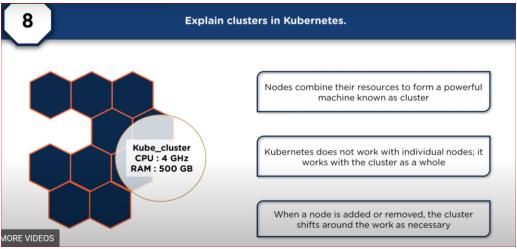
Infrastructure Layer

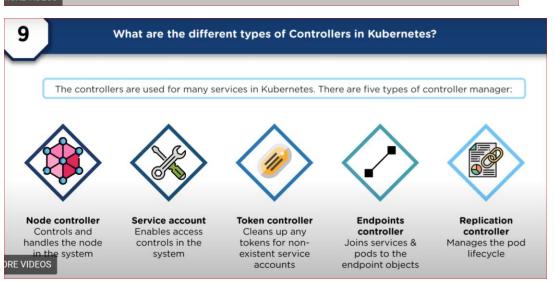
ORE VIDEOS

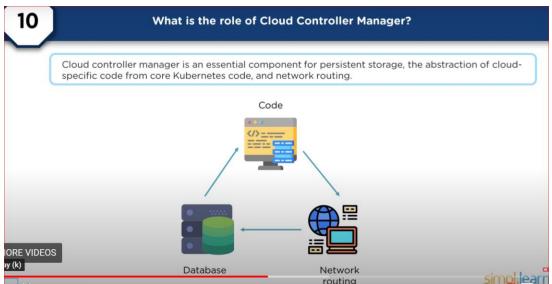


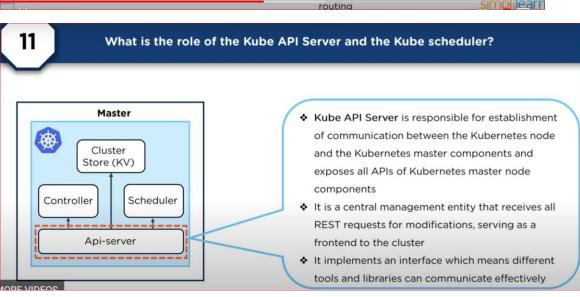
ORE VIDEOS

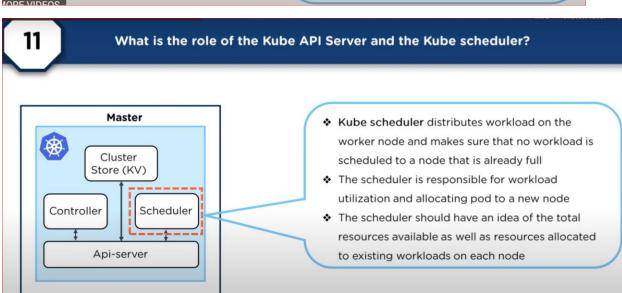


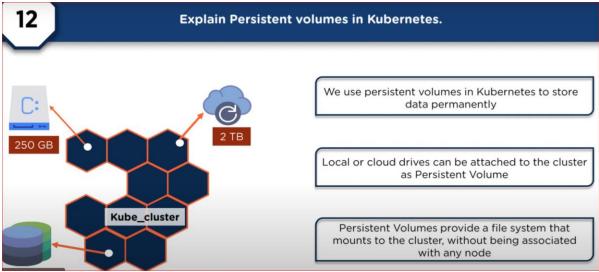


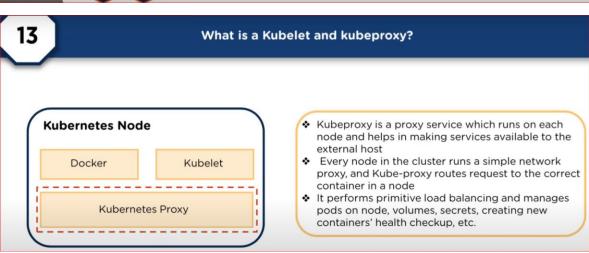


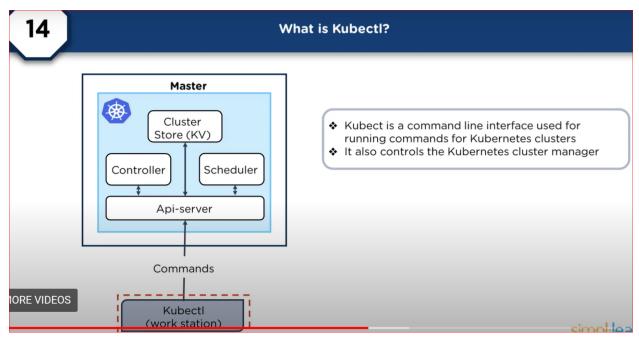






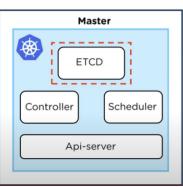




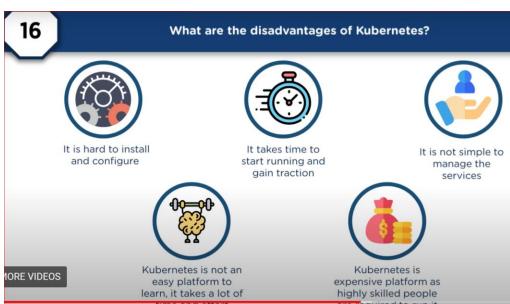


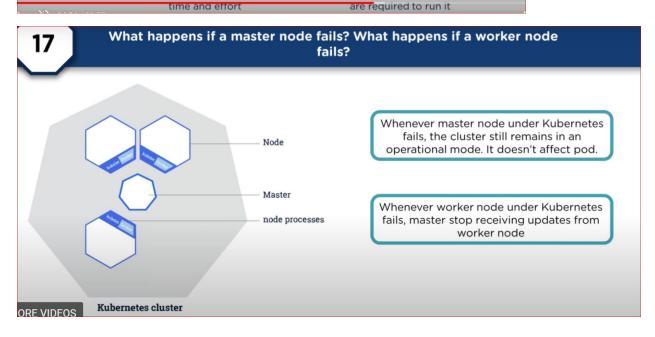


What is ETCD?



- ETCD stores the configuration details and essential values. Key-value is available and distributed across multiple nodes
- It communicates with all other components to receive the commands and work in order to perform an action
- It also manages network rules and post forwarding activity





What is a service role in Kubernetes?

A service is an abstraction for pods. It provides a virtual IP (VIP) address. It allow clients connect to the containers running in the pods, using the Virtual IP address.

The command used to display services under Kubernetes is \$kubectl get services

19

How do I rollback a deployment?

Applying changes to a Deployment process with the --record flag then Kubernetes by default saves the previous Deployment activities in its history

To display all the prior Deployments:

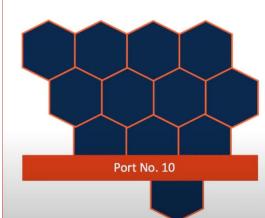
kubectl rollout history deployment <deployment>

To restore last deployment:

kubectl rollout undo deployment <deployment>

20

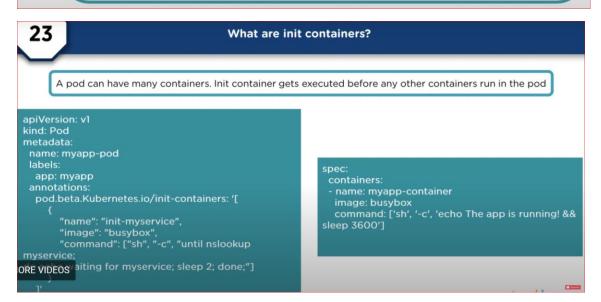
What is an Ingress Controller?



An Ingress Controller is a pod that can act as an inbound traffic handler.

Prominent features are HTTP path and servicebased routing and SSL termination

22 How do you package Kubernetes Applications? Helm is a package manager which allow users to package, configure, and deploy applications and services to the Kubernetes cluster **COMMANDS:** helm search redis # searches for a specific application helm install stable/redis # installs the application helm ls # list the applications



24 What is the difference between configmap and secret?

Config maps ideally stores application configuration in a plain text

COMMAND:

kubectl create configmap myconfigmap --from-literal=env=dev

Secrets store sensitive data like password in an encrypted format

COMMAND:

- echo -n 'admin' > ./username.txt
 echo -n 'abcd1234'
- - ./password.txtkubectl
- create secret generic mysecret -from-file=./username.txt --fromfile=./password.txt

26

How do you deploy a feature with zero downtime in Kubernetes?

By default Deployment in Kubernetes using RollingUpdate as a strategy

- Update the nginx image kubectl set image deployment nginx nginx=nginx:1.15
- Check the replica sets kubectl get replicasets
- Check the status of a deployment rollout kubectl rollout history deployment nginx
- Check the revisions in a deployment kubectl rollout history deployment nginx

27

How to monitor a pod is always running?

A liveness probe always checks if an application in a pod is running, if this check fails the container gets restarted

spec:
containers:
- name: liveness
image: k8s.gcr.io/liveness
args:
- /server
livenessProbe:
 httpGet:
 path: /healthz

DRE VIDEOS

28

How to drain traffic from a pod during maintenance?

Pods inside the nodes also take a hit when a node is put into maintenance. However, we can avoid it by using the below command:

kubectl drain <nodename>

Once the node is up and running after maintenance and it should be added to rotation, execute the following command:

kubectl uncordon <nodename>

How do you tie services to a pod or a set of pods?

By declaring pods with the label(s) and by having a selector in the service which acts as a glue to stick the service to the pods

kind: Service

apiVersion: v1
metadata:
name: my-service
spec:
selector:
app: MyApp
ports:
- protocol: TCP

port: 80

29

How to get all pods on a node?

The following command is used to get all the pods on a node in Kubernetes Cluster

\$ kubectl get po --all-namespaces -o
jsonpath='{range .items[?(@.spec.nodeName
=="nodename")]}{.metadata.name}{"\n"}{end}'

30

How do pods mount NFS volume?

Configuring NFS Server

Define NFS server pod and NFS service:

- \$ kubectl create -f nfs-server-pod.yaml
- \$ kubectl create -f nfs-serverservice.yaml

Define the pod:

\$ kubectl create -f web-pod.yaml
Now the pod serves index.html from the NFS server:
\$ curl http://<the container IP address>/
Hello World!