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Container Orchestration with Kubernetes - Quiz Quiz

Topic: Kubernetes  
Sub Topic:  Kubernetes basics

Complete the statement by filling in the blank with suitable answer.   
Kubernetes is open source and  production-ready platform for\_\_\_\_\_\_\_\_\_\_

Choose the most appropriate answer.

Containerization

Cluster management

Container security

Container orchestration

**The correct answer is Container orchestration.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes basic

Complete the statement by filling in the blank with suitable answer.   
In order to automate the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of application containers across a cluster Kubernetes works in most efficient way.

Choose the most appropriate answer.

Distribution and scheduling

Security check

Build & Release

Monitoring and alerting

**The correct answer is Distribution and scheduling.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes basic

Complete the statement by filling in the blank with suitable answer.

There are \_\_ types of resources in Kubernetes cluster, type 1 is \_\_\_\_\_\_\_\_ and type 2 is \_\_\_\_\_\_\_\_\_\_\_

Choose the most appropriate answer.

2, master and nodes

2, master and slave

2, main and sub

2, parent and child

**The correct answer is 2, master and nodes.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes basic

Complete the statement by filling in the blank with suitable answer.

In Kubernetes cluster, a node is \_\_\_\_\_\_\_\_\_\_\_ where work loads (pods) run.

Choose the most appropriate answer.

Physical machine or a Google Kubernetes engine

VM or cloud instance

VM or a physical computer

VM or a Azure Kubernetes service

**The correct answer is VM or a physical computer.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes basic

Complete the statement by filling in the blank with suitable answer.

On every worker node of a EKS cluster, there is an agent called \_\_\_\_\_\_\_\_ responsible for managing the node and communicating with the Kubernetes master

Choose the most appropriate answer.

EKSctl

Kubelet

Kubeadm

Kubeexe

**The correct answer is Kubelet.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes basic

Complete the statement by filling in the blank with suitable answer.

Container operations tools, such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ must present on a worker node of a Kubernetes cluster.

Choose the most appropriate answer.

Docker or Messos

CRIO or Swarm

rkt or kubeproxy

Docker or rkt

**The correct answer is Docker or rkt.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes basic

Complete the statement by filling in the blank with suitable answer.

Different type of replication controllers available in Kubernetes to create and update instances of your application, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is one type.

Choose the most appropriate answer.

Deployment

Scheduler

Docker runtime

Kubelet

**The correct answer is Deployment.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes advanced

Complete the statement by filling in the blank with suitable answer.

Kubernetes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ continuously monitors the pods running on worker nodes, incase if any node goes down missed pods will be recreated.

Choose the most appropriate answer.

End point controller

Scheduler

Replication controller

Service account controller

**The correct answer is Replication controller.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes advanced

Choose the right answer from options.

1.Kubernetes support only Docker and Rocket containers,

2. Each pod gets its own IP address and we can keep more than one container in a pod.

Choose the most appropriate answer.

TRUE,FALSE

FALSE,TRUE

TRUE,TRUE

FALSE,FALSE

**The correct answer is FALSE,TRUE.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes advanced

Complete the statement by filling in the blank with suitable answer.

By default Kubernetes master node marked no for pod deployment. Three important process runs on master node, those processes are \_\_\_\_\_\_\_\_\_ ,\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_.

Choose the most appropriate answer.

kubectl, controller, etcd

kube-apiserver, kube-controller-manager and node-scheduler

fluentd, kublet, etcd

kube-apiserver, kube-data-manager and kube-scheduler

**The correct answer is kube-apiserver, kube-controller-manager and node-scheduler.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes advanced

Complete the statement by filling in the blank with suitable answer.

We can logically divide Kubernetes cluster into parts,  individual non-master node cannot exist without \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_ and container runtime.

Choose the most appropriate answer.

kubelet and fluentd

kubespray and kube-proxy

kubelet and kubevirt

Kubectl and kube-proxy

**The correct answer is Kubectl and kube-proxy.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes advanced

Choose right option from options.   
Kubernetes Pods are mortal. They are born and when they die, they are not restored. Which among the given w Kubernetes object is not responsible to deal with pod recreation ?

Choose the most appropriate answer.

End point controller

Replicaset

Deployment

Replication controller

**The correct answer is End point controller.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes advanced

Choose right option from options.

Jane want to expose user interface pods of App outside Kubernetes cluster, what is the most suitable Service type she must use ?  
Choose the most appropriate answer.

Cluster IP

Node port

Not possible to expose pod outside cluster

Route

**The correct answer is Node port.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes advanced

Choose right option from options.

We can use persistence volumes options in Kubernetes to deploy stateful applications, in the given four options, what is not a valid Kubernetes volume access mode ?  
Choose the most appropriate answer.

ReadWriteOnce

ReadOnlyMany

ReadWriteOnly

ReadWriteMany

**The correct answer is ReadWriteOnly.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes expert

Choose right option from options.   
Sam into App development team, he wants to automate Kubernetes communication in his existing build activity workflow. What Kubernetes option he must choose to achieve this ?

Choose the most appropriate answer.

Kubernetes API

Kubectl

Kubernetes web UI

Managed kubernetes cluster

**The correct answer is Kubernetes API.**

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Topic: Kubernetes  
Sub Topic: Kubernetes expert

Choose right option from options.   
Only persistence option available for Karen is, persistence volumes created using AWS EBS. Whenever she deletes PVC  she wants associated PV and it’s storage to be deleted automatically. What configurations she must use to achieve this ?

Choose the most appropriate answer.

In the PV spec, she must set reclaim policy to destroy

It is not possible because she is using AWS EBS

She must write a script to achieve this

In the PV spec, she must set reclaim policy to delete

**The correct answer is In the PV spec, she must set reclaim policy to destroy.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes expert

Choose right option from options.   
Hazel is Kubernetes cluster administrator she is exploring different option/precautions available to run etcd with high durability and high availability, in the given below options, what is most suitable option for her

Choose the most appropriate answer.

Run etcd as a single node cluster in production and perodic backup

Run etcd as a multi-node cluster in production

 Perodic etc backup

Run etcd as a multi-node cluster in production and perodic backup

**The correct answer is Perodic etc backup.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes expert

Choose right option from options.   
Smith is an App developer, he created deployment spec to deploy container and it’s side car as a single pod. How, two containers running in a single pod can communicate ?

Choose the most appropriate answer.

Deployment fails because it is not possible to keep two containers in single pod

Containers of same pod must use special type of service to communicate with each other

Service mesh

Localhost

**The correct answer is Localhost.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes expert

Choose right option from options.   
Susan a Kubernetes cluster administrator, wants to enforce minimum and maximum compute resources usage per Pod or container in a namespace. What Kubernetes options she must use to achieve this ?

Choose the most appropriate answer.

Namespaces

Limit range in Kubernetes

Auto scaling groups

Limiting one container to pod

**The correct answer is Limit range in Kubernetes.**

.

Topic: Kubernetes  
Sub Topic: Kubernetes expert

Choose right option from options.   
Trish is an app developer, she want to group all resources related to one app  and deploy onto Kubernetes cluster as a package. What is the right tool to achieve this ?

Choose the most appropriate answer.

Kubernetes not supports resource packaging.

Docker compose

Kubernetes native JenkinsX pipeline

Helm charts

**The correct answer is Helm charts.**

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