



Congratulations! You passed!

Grade
received **97.50%**

Latest Submission
Grade 97.50%

To pass 70% or
higher

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 Summarize 

You increased your skill score!

Cloud Computing

Your score: **101** (↑5) Beginner

Keep going! At a beginner level, you have a working knowledge and are able to pass beginner content. You have limited experience applying it.



1. In what three environments can container orchestration be implemented?

0.75 / 1 point



- ☐ A single device
- ☒ Private cloud environments

 **Correct**

Correct! Container orchestration can be implemented in on-premises, public cloud, private cloud, and multicloud environments.

- ☒ On-premises environments

 **Correct**

Correct! Container orchestration can be implemented in on-premises, public cloud, private cloud, and multicloud environments.

- ☐ Public cloud environments

You didn't select all the correct answers

2. What is the most popular container orchestration tool used as of 2022?

1 / 1 point



- ☐ Docker Swarm
- ☐ Nomad
- ☐ Marathon
- ☒ Kubernetes

 **Correct**

Correct! The most popular container orchestration tool in 2022 is Kubernetes.

3. What does a control plane do?

1 / 1 point



- ☐ Assigns newly created Pods to nodes
- ☐ Shares all the resources of a node
- ☒ Maintains the intended Cluster state by making decisions about the Cluster and detecting and responding to events in the Cluster
- ☐ Contains Pods

 **Correct**

Correct! A control plane maintains the intended Cluster state by making decisions about the Cluster and detecting and responding to events in the Cluster.

4. What component of a worker node ensures containers are running as desired?

1 / 1 point



- ☒ The kubelet
- ☐ The Kubernetes proxy
- ☐ Container runtime
- ☐ Etcd

 **Correct**

Correct! The kubelet communicates with the kube-api server to receive new and modified Pod specifications and ensures that the Pods and their associated containers are running as desired.

5. What are three Kubernetes capabilities?

1 / 1 point



☒ Storage orchestration

✓ **Correct**

Correct! Kubernetes offers many features, including automated rollouts, storage orchestration, and management of secrets and configuration.

☐ CI/CD pipelines

☒ Automated rollouts

✓ **Correct**

Correct! Kubernetes offers many features, including automated rollouts, storage orchestration, and management of secrets and configuration.

☒ Secret and configuration management

✓ **Correct**

Correct! Kubernetes offers many features, including automated rollouts, storage orchestration, and management of secrets and configuration.

6. What is automated bin packing?

1 / 1 point



☐ A Kubernetes capability that scales workloads based on metrics or commands

☐ A Kubernetes capability that applies automatic changes

☒ A Kubernetes capability that performs container auto-placement based on resource requirements and conditions without sacrificing high availability

☐ A Kubernetes capability that mounts a chosen storage system

✓ **Correct**

Correct! Automated bin packing is a Kubernetes feature that performs container auto-placement based on resource requirements and conditions without sacrificing high availability.

7. What is a label?

1 / 1 point



☐ A mechanism for isolating groups of resources within a single Cluster

☒ A key-value pair attached to an object

☐ The simplest unit in Kubernetes

☐ A set of identical running Pod replicas that are horizontally scaled

✓ **Correct**

Correct! Labels are defined as key-value pairs attached to objects.

8. What Kubernetes object should be used for stateless applications?

1 / 1 point

☐ DaemonSet

☐ StatefulSet

☒ Deployment

☐ ReplicaSet

✓ **Correct**

Correct. A Deployment is suitable for stateless applications.

9. What is Kubectl?

1 / 1 point



☒ Kubernetes command line interface (CLI)

☐ Docker command line interface

☐ Cloud command line interface

☐ OpenShift command line interface (oc)

✓ **Correct**

Correct! Kubectl stands for Kube Command Tool Line. Kubectl is the Kubernetes CLI.

10. What is the function of an External Name Service?

1 / 1 point

- ☐ Directs traffic to the NodePort Service
- ☐ Provides inter-service communication within the Cluster
- ☒ Maps to a DNS name
- ☐ Creates and routes the incoming requests automatically to the ClusterIP Service



Correct

Correct! The External Name Service is the service type that maps to a DNS name.

