Congratulations! You passed!

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You increased your skill score!

Cloud Computing Your score: 102 (↑1) 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. How do you create a ReplicaSet from scratch? **1 / 1 point**

- ○ Apply a JSON file that includes the number of desired replicas.
- ○ Use the 'scale' command to scale the deployment.
- ◉ Apply a YAML file with the 'kind' attribute set to 'ReplicaSet'.
- ○ Use the 'get pods' command.

Correct
Correct! To create a ReplicaSet from scratch, apply a YAML file with the 'kind' attribute set to 'ReplicaSet'.

2. What Kubernetes object adds or deletes pods for scaling and redundancy? **1 / 1 point**

- ○ A Secret
- ○ A DaemonSet
- ○ A Config Map
- ◉ A ReplicaSet

Correct
Correct! A ReplicaSet ensures the right number of pods are always up and running.

3. Which Kubernetes autoscaler type scales the Cluster? **1 / 1 point**

- ○ Vertical Pod Autoscaler (VPA)
- ○ You cannot autoscale a Kubernetes Cluster.
- ○ Horizontal Pod Autoscaler (HPA)
- ◉ Cluster Autoscaler (CA)

Correct
Correct! The Cluster Autoscaler (CA) scales the Cluster in Kubernetes.

4. How do you prepare your application to enable rolling updates? **1 / 1 point**

- ○ Set the maxSurge to 100%.
- ○ Use autoscaling.
- ◉ Add liveness and readiness probes to deployments.
- ○ Set the maxSurge to 50%.

Correct
Correct! Add liveness and readiness probes to deployments to enable rolling updates for an application.

5. Which rolling update types ensure 100% app availability? **1 / 1 point**

- ○ All-at-once updates and rollbacks ensure 100% app availability.
- ○ No rolling update types can ensure 100% app availability.
- ◉ One-at-a-time updates and rollbacks ensure 100% app availability.

- ○ Both all-at-once and one-at-a-time updates and rollbacks ensure 100% app availability.

  Correct
  Correct! One-at-a-time updates and rollbacks ensure 100% app availability.

6. What does a ConfigMap do? **1 / 1 point**

- ○ Verifies that a Secret was created
- ○ Mounts a file using the volumes plugin
- ○ Provides sensitive information to your application
- ◉ Provides variables for your application

  Correct
  Correct! You can use a ConfigMap to provide variables for your application.

7. What are three ways to create a ConfigMap? **1 / 1 point**

- ☐ By adding another environment to the deployment descriptor
- ☑ By providing a ConfigMap YAML descriptor file

  Correct
  Correct! A ConfigMap is created using string literals, using an existing property or 'key' = 'value' file, or by providing a ConfigMap YAML descriptor file.

- ☑ By using an existing property or 'key' = 'value' file

  Correct
  Correct! A ConfigMap is created using string literals, using an existing property or 'key' = 'value' file, or by providing a ConfigMap YAML descriptor file.

- ☑ By using string literals

  Correct
  Correct! A ConfigMap is created using string literals, using an existing property or 'key' = 'value' file, or by providing a ConfigMap YAML descriptor file.

8. What are three ways to create a Secret? **1 / 1 point**

- ☑ By using environment variables

  Correct
  Correct! You create a Secret by using a string literal, by using environment variables, or by using volume mounts.

- ☑ By using a string literal

  Correct
  Correct! You create a Secret by using a string literal, by using environment variables, or by using volume mounts.

- ☐ By providing a ConfigMap YAML descriptor file
- ☑ By using volume mounts

  Correct
  Correct! You create a Secret by using a string literal, by using environment variables, or by using volume mounts.

9. What does Service binding do? **1 / 1 point**

- ○ Provides variables for your application
- ◉ Manages configuration and credentials for back-end Services while protecting sensitive data
- ○ Consumes the external Service by binding the application to a deployment
- ○ Makes Service credentials available to you automatically as a Secret

  Correct
  Correct! Service binding manages configuration and credentials for back-end Services while protecting sensitive data.

10. What are the three required steps to bind the IBM Cloud Service to your Cluster? **1 / 1 point**

- [x] Provision an instance of the Service.

Correct
Correct! The required steps to bind an IBM Cloud Service to your Cluster are: Provision an instance of the service, Bind the Service to your Cluster to create credentials, Store the credentials, and Configure your app to access the credentials.

- [ ] Erase the credential configuration file after credential setup.
- [x] Bind the Service to your Cluster to create credentials.

Correct
Correct! The required steps to bind an IBM Cloud Service to your Cluster are: Provision an instance of the service, Bind the Service to your Cluster to create credentials, Store the credentials, and Configure your app to access the credentials.

- [x] Configure your app to access the credentials.

Correct
Correct! The required steps to bind an IBM Cloud Service to your Cluster are: Provision an instance of the service, Bind the Service to your Cluster to create credentials, Store the credentials, and Configure your app to access the credentials.