

Kubernetes Quiz

Total points 7/10

The respondent's email (**haffiz.hissham@gmail.com**) was recorded on submission of this form.

✓ What is the purpose of a Kubernetes Service?

1/1

- ☐ To provide persistent storage for applications
- ☐ To define how to deploy an application
- ☒ To expose an application running in a Kubernetes cluster to other applications within or outside the cluster ✓
- ☐ To manage access control for Kubernetes objects

✓ How can you expose a Kubernetes Service outside the cluster?

1/1

- ☐ By creating an Ingress resource
- ☐ By setting the type field of the Service to External
- ☒ By configuring a LoadBalancer service ✓
- ☐ By directly accessing the pod IP addresses



✓ Which of the following tools can be used for Kubernetes cluster monitoring 1/1 and logging?

- ☐ Prometheus and Grafana
- ☐ Elasticsearch and Kibana
- ☐ Fluentd and Sysdig
- ☒ All of the above



✗ How can you inspect the network policies applied to a namespace in Kubernetes? 0/1

- ☐ kubectl get networkpolicies -n <namespace>
- ☒ kubectl describe networkpolicy -n <namespace>
- ☐ kubectl get policies -n <namespace>
- ☐ kubectl describe policies -n <namespace>



Correct answer

- ☒ kubectl get networkpolicies -n <namespace>



✗ What is the purpose of a Kubernetes ConfigMap?

0/1

- ☐ To manage environment variables for pods
- ☒ To provide persistent storage for applications
- ☐ To define network policies for pod communication
- ☐ To specify resource limits for pods

✗

Correct answer

- ☒ To manage environment variables for pods

✓ In Kubernetes, how can you roll back a deployment to a previous version? 1/1

- ☐ By deleting the current deployment and creating a new one with the old version
- ☒ By using the kubectl rollout undo command
- ☐ By manually editing the deployment YAML file and reverting to the old version
- ☐ By scaling down the deployment replicas and then scaling them back up with the old version

✓



✗ What Kubernetes object is used to manage storage resources and provide persistent storage to pods? 0/1

- ☒ PersistentVolume
- ☐ StorageClass
- ☐ PersistentVolumeClaim
- ☐ PodVolume



Correct answer

- ☒ PersistentVolumeClaim

✓ What does the kubectl port-forward command do? 1/1

- ☐ Exposes a Kubernetes Service externally using a NodePort
- ☒ Forwards traffic from a local port to a port on a pod
- ☐ Lists all pods running in a Kubernetes cluster
- ☐ Provides access to logs of a specific pod



✓ How does Kubernetes handle containerized application failures within a pod? 1/1

- ☐ Kubernetes automatically restarts the pod
- ☒ Kubernetes restarts the container within the pod
- ☐ Kubernetes deletes the pod and creates a new one
- ☐ Kubernetes sends a notification to the cluster administrator



✓ What is a Kubernetes DaemonSet used for?

1/1

- ☐ To ensure that a specified number of pods are running
- ☐ To manage network policies for pod communication
- ☒ To run a copy of a pod on every node in the cluster
- ☐ To manage access control for Kubernetes objects



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