

Started on	Tuesday, 4 November 2025, 1:07 PM
State	Finished
Completed on	Tuesday, 4 November 2025, 1:09 PM
Time taken	2 mins 12 secs
Marks	4.00/5.00
Grade	80.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

A ClusterIP Service routes requests among multiple pods. Which component actually implements the load balancing?

- a. kube-proxy
- b. kube-scheduler
- c. etcd
- d. kube-apiserver

Question 2

Complete

Mark 1.00 out of 1.00

If a NetworkPolicy is applied that allows only ingress from pods with label role=frontend, what happens to all other ingress traffic?

- a. It is denied because Kubernetes enforces a "default deny" once any policy exists.
- b. It depends on the CNI plugin.
- c. It is rerouted through kube-proxy.
- d. It is ignored by the policy and allowed.

Question 3

Complete

Mark 0.00 out of 1.00

When a container in a pod repeatedly crashes and Kubernetes continuously restarts it, which field determines the interval before each retry?

- a. backoffLimit in CrashLoopBackOff
- b. terminationGracePeriodSeconds
- c. restartPolicy
- d. livenessProbe.initialDelaySeconds

Question 4

Complete

Mark 1.00 out of 1.00

When updating a DaemonSet with the RollingUpdate strategy, what determines how pods are replaced?

- a. The new DaemonSet pods are deployed first, then old pods are deleted.
- b. The update order is random.
- c. One node is updated at a time; the next only starts after the previous is ready.
- d. All nodes are updated simultaneously if they have capacity.

Question 5

Complete

Mark 1.00 out of 1.00

Which statement best describes how etcd ensures Kubernetes' data consistency?

- a. It uses a simple master-slave replication model.
- b. It uses the Raft consensus algorithm for leader election and log replication.
- c. It uses eventual consistency similar to NoSQL databases.
- d. It uses transactional SQL ACID compliance through SQLite backend.