

<b>Started on</b>	Friday, 5 December 2025, 12:40 PM
<b>State</b>	Finished
<b>Completed on</b>	Friday, 5 December 2025, 12:43 PM
<b>Time taken</b>	3 mins 26 secs
<b>Marks</b>	15.00/25.00
<b>Grade</b>	<b>60.00</b> out of 100.00

**Question 1**

Complete

Mark 0.00 out of 1.00

How to run multiple versions of an app simultaneously in Kubernetes?

- a. ConfigMap
- b. Deployment
- c. ReplicaSet
- d. StatefulSet

**Question 2**

Complete

Mark 1.00 out of 1.00

In Horizontal Pod Autoscaler (HPA), which metric is used by default?

- a. Network I/O
- b. CPU utilization
- c. Disk usage
- d. Memory usage

**Question 3**

Complete

Mark 1.00 out of 1.00

In Kubernetes, which component is responsible for assigning Pods to Nodes?

- a. kube-controller-manager
- b. kubelet
- c. kube-scheduler
- d. kube-apiserver

**Question 4**

Complete

Mark 1.00 out of 1.00

Kube-Proxy operates at which OSI layer in IPVS mode?

- a. Layer 7
- b. Layer 4
- c. Layer 3
- d. Layer 2

**Question 5**

Complete

Mark 0.00 out of 1.00

What does a DaemonSet ensure?

- a. Pods run only on master nodes
- b. One Pod across the entire cluster
- c. One Pod on each worker node
- d. Pods only run when manually scheduled

**Question 6**

Complete

Mark 1.00 out of 1.00

What does ETCD primarily store?

- a. Container images
- b. Node logs
- c. Pod metrics
- d. Cluster state

**Question 7**

Complete

Mark 1.00 out of 1.00

What does the kube-controller-manager do?

- a. Stores cluster state
- b. Routes API traffic
- c. Runs controllers like Deployment, Node, Replication
- d. Schedules Pods

**Question 8**

Complete

Mark 1.00 out of 1.00

What does the status CrashLoopBackOff indicate?

- a. ImagePullBackOff due to missing image
- b. Container repeatedly crashes and restarts
- c. Node is out of memory
- d. Liveness probe disabled

**Question 9**

Complete

Mark 1.00 out of 1.00

What happens when a Node remains NotReady for a long time?

- a. Node is automatically drained
- b. Pods on the node may be evicted and scheduled elsewhere
- c. Scheduler stops working
- d. All pods are deleted immediately

**Question 10**

Complete

Mark 0.00 out of 1.00

What happens when Pod affinity rules cannot be satisfied?

- a. Pod stays in Pending state
- b. Scheduler rejects the Pod permanently
- c. Pod runs with lower priority
- d. Pod schedules on any available node

**Question 11**

Complete

Mark 1.00 out of 1.00

What is the default behavior when a Deployment's Pod template is updated?

- a. A new ReplicaSet is created and old Pods are gradually replaced
- b. Pods restart automatically with no ReplicaSet change
- c. All old Pods are immediately deleted
- d. The existing ReplicaSet is patched in place

**Question 12**

Complete

Mark 1.00 out of 1.00

What is the default restart policy for Pods in a Deployment?

- a. Manual
- b. OnFailure
- c. Always
- d. Never

**Question 13**

Complete

Mark 1.00 out of 1.00

What is the role of the kubelet?

- a. Store cluster state
- b. Execute kubectl commands
- c. Ensure containers in PodSpecs are running
- d. Enforce Pod quotas

**Question 14**

Complete

Mark 0.00 out of 1.00

Which API group contains Deployments and ReplicaSets?

- a. core/v1
- b. rbac.authorization.k8s.io/v1
- c. apps/v1
- d. networking.k8s.io/v1

**Question 15**

Complete

Mark 0.00 out of 1.00

Which authentication method is NOT supported by Kubernetes API server?

- a. OIDC
- b. SSH keys
- c. X.509 Client Certificates
- d. Static token file

**Question 16**

Complete

Mark 0.00 out of 1.00

Which command generates a manifest without applying it?

- a. kubectl dry-run=client -o yaml
- b. kubectl manifest --generate
- c. kubectl simulate=apply
- d. kubectl create --file-only

**Question 17**

Complete

Mark 0.00 out of 1.00

Which command lists all API resource types in the cluster?

- a. kubectl get all --all-namespaces
- b. kubectl api-resources
- c. kubectl get resources
- d. kubectl list kinds

**Question 18**

Complete

Mark 0.00 out of 1.00

Which component ensures cross-node Pod-to-Pod networking?

- a. CNI plugin
- b. kube-proxy
- c. API server
- d. Kubelet

**Question 19**

Complete

Mark 1.00 out of 1.00

Which Kubernetes object provides persistent storage across Pod restarts?

- a. PersistentVolumeClaim
- b. HostPath
- c. ConfigMap
- d. EmptyDir

**Question 20**

Complete

Mark 0.00 out of 1.00

Which object controls communication rules between Pods at Layer-3/4?

- a. ServiceAccount
- b. ConfigMap
- c. RoleBinding
- d. NetworkPolicy

**Question 21**

Complete

Mark 1.00 out of 1.00

Which object provides stable identity and persistent storage for replicas?

- a. DaemonSet
- b. StatefulSet
- c. ReplicaSet
- d. Deployment

**Question 22**

Complete

Mark 1.00 out of 1.00

Which policy prevents voluntary disruptions of Pods?

- a. ResourceQuota
- b. PodDisruptionBudget
- c. NetworkPolicy
- d. RBAC Policy

**Question 23**

Complete

Mark 0.00 out of 1.00

Which Service type creates an externally accessible load-balanced IP?

- a. LoadBalancer
- b. Headless
- c. ClusterIP
- d. NodePort

**Question 24**

Complete

Mark 1.00 out of 1.00

Which Service type provides DNS but no cluster IP or load balancer?

- a. Ingress
- b. ExternalName
- c. Headless Service (ClusterIP: None)
- d. NodePort

**Question 25**

Complete

Mark 1.00 out of 1.00

Which volume type enables dynamic provisioning?

- a. StorageClass-backed PersistentVolume
- b. HostPath
- c. EmptyDir
- d. Manually created PersistentVolume