

Kubernetes Administrator

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Screening Test

#	Question	Response	Marks
1	Describe how Kubernetes handles DNS resolution for services and pods. What happens if the CoreDNS pods are down?	Skipped	0
2	Explain the difference between Ingress and LoadBalancer types of services. In what scenarios would you use each?	Skipped	None
3	Explain the difference between persistent volumes (PV) and persistent volume claims (PVC). How are they bound?	Skipped	None
4	Explain the Kubernetes networking model and how it differs from traditional networking models.	Skipped	None
5	How would you configure Kubernetes to use a custom CNI (Container Network Interface)?	Skipped	None
6	How would you design a Kubernetes cluster to handle multi-tenancy securely while minimizing resource contention?	Skipped	None
7	How would you troubleshoot a PVC that remains in the "Pending" state?	Skipped	None
8	What are Kubernetes taints and tolerations? Provide a real-world example of their usage.	Skipped	None
9	What are Network Policies in Kubernetes? How would you enforce a rule where Pod A can talk to Pod B but not Pod C?	Skipped	None
10	What happens at the network level when a pod communicates with a service that has multiple backend pods?	Skipped	None
11	What is the role of etcd in Kubernetes, and how would you troubleshoot a performance issue in etcd?	Skipped	None

12	Explain the difference between Operators and Controllers in Kubernetes.	Skipped	None
13	How would you identify and resolve a resource contention issue in a Kubernetes cluster?	Skipped	None
14	How would you manage resources in a cluster to prevent a noisy neighbor issue?	Skipped	None
15	What are Custom Resource Definitions (CRDs), and how do they extend Kubernetes?	Skipped	None
16	Explain how you would implement and monitor disaster recovery for a Kubernetes cluster.	Skipped	None
17	How do you scale the Kubernetes control plane and worker nodes in a large cluster?	Skipped	None
18	What strategies would you use to ensure a smooth upgrade of a Kubernetes cluster?	Skipped	None
19	A developer reports that their deployment is not receiving any traffic. The service and pod seem healthy. How would you troubleshoot this?	Skipped	None
20	How would you migrate a live application from one Kubernetes cluster to another with zero downtime?	Skipped	None
21	How would you roll back a deployment if a new version of the application caused failures in production?	Skipped	None
22	How would you troubleshoot a deployment that is stuck and not creating new pods?	Skipped	None
23	You suspect a memory leak in an application running in Kubernetes. How would you investigate and mitigate the issue?	Skipped	None
24	A node is in the "NotReady" state. How would you identify and resolve the problem?	Skipped	None
25	A pod is stuck in the "CrashLoopBackOff" state. How would you approach debugging the issue?	Skipped	None
26	Describe how you would debug network connectivity issues between pods on different nodes.	Skipped	None
27	Describe the difference between HPA and Vertical Pod Autoscaler (VPA). When would you use each?	Skipped	None

28	How would you configure Kubernetes to handle a sudden increase in traffic to your application?	Skipped	None
29	How would you debug and resolve high latency between two pods in the same namespace?	Skipped	None
30	What is the Horizontal Pod Autoscaler (HPA), and how would you tune it for an application with unpredictable traffic spikes?	Skipped	None
31	What tools would you use to monitor and optimize Kubernetes cluster performance?	Skipped	None
32	What would you do if the kube-apiserver becomes unresponsive?	Skipped	None
33	Describe the process Kubernetes uses to schedule a pod. What are the key factors it considers?	Skipped	None
34	How does the Kubernetes control plane achieve high availability? What happens if one of the control plane components fails?	Skipped	None
35	How would you enforce pod security standards in a cluster?	Skipped	None
36	What would you do if you detected a security breach in a Kubernetes cluster?	Skipped	None
37	Explain the difference between a PodSecurityPolicy and a NetworkPolicy.	Skipped	None
38	Explain the role of RBAC (Role-Based Access Control) in Kubernetes. How would you secure a namespace?	Skipped	None
39	How do you debug and troubleshoot issues in a custom operator?	Skipped	None
40	How would you write a custom controller to manage CRDs?	Skipped	None
41	What are finalizers in Kubernetes, and how do they work with custom resources?	Skipped	None
42	What are Kubernetes Secrets, and how are they managed and secured?	Skipped	None
43	What are Service Accounts, and how do they differ from user accounts in Kubernetes?	Skipped	None
44	Describe the difference between StatefulSets and Deployments with respect to storage.	Skipped	None
45	How would you ensure that data stored in a persistent volume is encrypted at rest?	Skipped	None

46	What are StorageClasses, and how would you use them to provision dynamic storage?	Skipped	None
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Overall Score : 0/92 (Failed)