

Kubernetes Interview Questions

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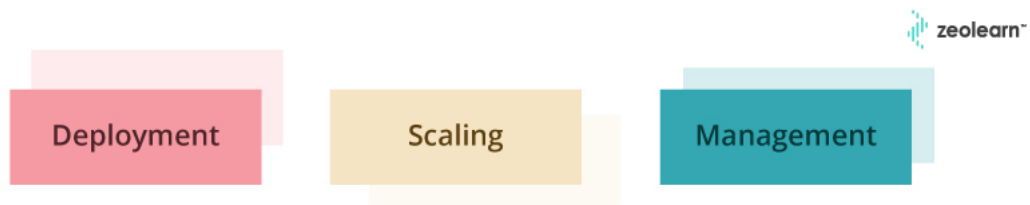
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BEGINNER

1. What is Kubernetes and why is it damn popular?

This is a basic interview question asked by the interviewer to check candidate's knowledge around Kubernetes. The interviewer expects the candidate to be aware of why Kubernetes is HOT in the market and what problem does Kubernetes solve for all of us. One can begin the answer with -

Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications. It groups containers that make up an application into logical units for easy management and discovery.



Kubernetes is a HUGE open source project with a lot of code and functionalities. The primary responsibility of Kubernetes is container orchestration. That means making sure that all the containers that execute various workloads are scheduled to run physical or virtual machines. The containers must be packed efficiently following the constraints of the deployment environment and the cluster configuration. In addition, Kubernetes must keep an eye on all running containers and replace dead, unresponsive, or otherwise unhealthy containers.

Said that Kubernetes is rightly a platform for managing application containers across multiple hosts. It provides lots of management features for container-oriented applications, such as rolling deployment, resource, and volume management. Same as the nature of containers, it's designed to run anywhere, so we're able to run it on a bare metal, in our data center, on the public cloud, or even hybrid cloud.



Kubernetes considers most of the operational needs for application containers. The Top 10 Reasons why Kubernetes is so popular are as follow:

- Largest Open Source project in the world
- Great Community Support
- Robust Container deployment
- Effective Persistent storage
- Multi-Cloud Support(Hybrid Cloud)
- Container health monitoring
- Compute resource management
- Auto-scaling Feature Support
- Real-world Use cases Available
- High availability by cluster federation

Levels

Adelphi Folkmark

2) Service type should be set to Load Balancer mode. Nodeport will be provisioned as mentioned in the above step, and then additional step which will automatically provision the load balancer in the cloud infrastructure.

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2. How does a Load Balancer service work?
3. Is it possible to force the pod to run on a specific node?
4. How do I get all the pods on a node?
5. Can pods mount NFS volumes?
6. Is it possible to route traffic from outside the Kubernetes cluster directly to pods?
7. Why is my pod showing "pending" status?
8. What monitoring tools are popularly used in Kubernetes?
9. Is it possible for containers within a pod to communicate with each other?
10. Is it possible to configure credentials to download images from a private docker registry?
11. Can you brief about Taints and Tolerations
12. Explain the role of Secrets in Kubernetes
13. How can we prioritize pods and preempt them.
14. What is Kubectl and what is it used for?
15. Explain the concept of Storage Classes
16. What are the volumes per node limits for each Cloud providers
17. How many types of Container Hooks are available, and explain each one of them
- 18.

What is a Resource Quota and Why we need them.

19. What is a Pod Security Policy and why is it important?
20. Explain the Service Catalog along with its Architecture

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DESCRIPTION

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