#KubernetesIn30Days challenge:-

#Day30:-

Kubernetes Interview Questions

1) You've Identified a Node in your cluster that consistently has high resource usage. How would you investigate and resolve this issue

sol:- I would start checking the Node's resource usage metrics using prometheus and grafana. Then, Inspect the pod on the Node using kubectl get pods -o wide to identify resource hungry pods. scaling pods, adjusting resource requests/limit or moving workloads to other Nodes are potential solutions. Additionally, Investigating specific pod logs and events can provide Insights into the root cause

2) Your team is deploying applications with Helm charts, you encounter a failed release How would you troubleshoot and rollback the release to previous version

sol:- I would begin by checking the Helm release status with helm status. Examine the release rivision history using helm history can provide more insights into the failed deployment. To Rollback, I would use helm rollback with appropriate release name and rivision number, ensuring a smooth transition back to the previous version.

3) Your kubernetes cluster is experiencing performance issues, and you suspect its related to Network. How would you approach to the problem.

sol:- I would start by examining the network policies in place using kubectl get network-policies. checking the network plugin configuration investigating potential DNS issues and monitor network traffic with tools like wireshark, tcpdump can provide insights. Adjust pod to pod communication, optimizing service mesh configurations and ensuring that proper routing

are strategies to optimize network performance.

4) You've a tasked with setting up K8 cluster for dev purposes on local machines. which tools and configurations would you use to create a light weight and efficient local K8 cluster

sol:- I would use tools like minikube or KinD (kubernetes in Docker) for lightweight local cluster. configuring a dev env with limited resource requirements, setting up persistent volume and integrating with dev tools like skaffold for conthous Development and testing are key considerations for an efficient local kubernetes setup.

Thats Up Guys! The Beautiful 30 Days is over now! But the Game is not over yet!

All the Best to you Guys. and Thanks for Reading to All the Here

Bye!