#kubernetesIn30Days challenge :-

#Day25 :

kubernetes Interview Questions -2

1) what is the difference between Ingress and service.

Ans :- service Vs Ingress :

It can be used to access/Expose pods within cluster/outside cluster. But the usage of LB as service it'll make very costly. On the other hand Ingress is resouce where we can rules and Ingress controller will act as LB which will take all traffic and Ingress will route the requests according to rules defined in Ingress.

2) what is Pod and Pod Lifecycle

Ans :- The smallest deployable unit in k8s. representing one/more containers sharing the same network namespace and storage
→ containers within PODs can communicate with each other directly.

Pod Lifecycle :-

① Intialization
② Running
③ Termination
④ completion.

3) What is Daemonset, Replicaset and Horizontal Pod Autoscaller.

Ans:- Daemon set : Ensure that the copy of POD runs on each Node in the cluster

Usecase :- Running a background task, monitoring agent or log collector on every Node

Replicaset : Maintains a specified no. of replicas (identical copies) of Pods.

Usecase :- Ensuring a specific no. of instances of an application are running.

Horizontal Pod Autoscaler :- Automatically adjust the no. of Pods replica pods based on observed CPU or custom metric utilization.

Usecase :- scaling the No. of Pod replicas in or out to handle varying workloads.

4) What is Persistent Volume and why we use it.

Ans:- Pod's storage is ephimeral and mortal. so, we need to store the data of Pod's somewhere outside and mount volume to Pod. this is

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called Persistent volume. Technically storage resources in a kubernetes cluster that exists independently of pods using them.

Use case:- Provides a way to store and access data beyond the Lifecycle of Pod.

Benefits:-

→ Data persistence: Data will be stored even Pod is rescheduled / Terminated.

→ shared storage: Enable multiple PODS to share the same data

→ Decoupling storage and compute: separate storage management from application, allowing easier data management.

Thanks for Reading all the way Here!

Good Day! Bye!!!