

Kubernetes Services

* providing stable & reliable networking for a set of unreliable pods.

* When pod fails, replaced, etc, it acquires a new IP address. Hence, they are unreliable.

* Service gets its own

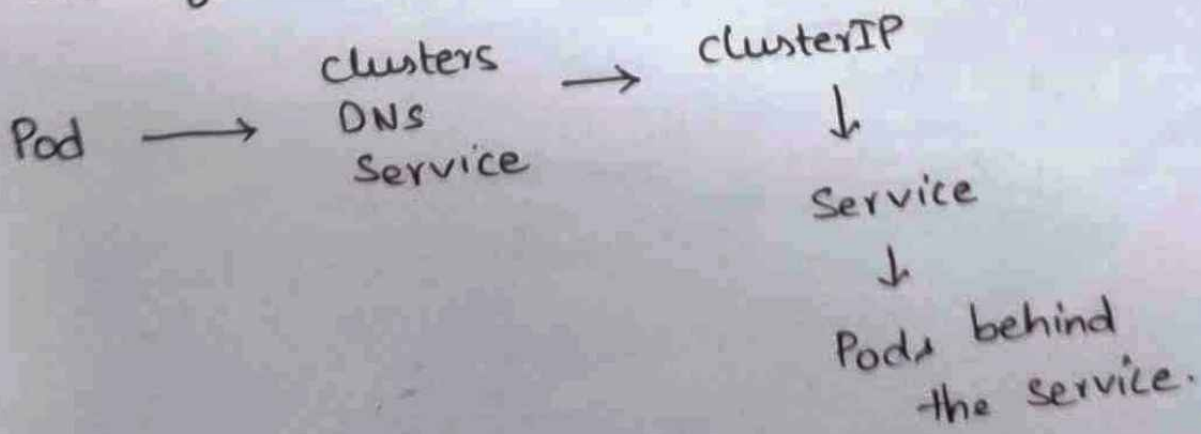
Stable IP address,
Stable DNS name &
a stable Port

* Services use labels & selectors to dynamically select the Pods.

Accessing Services inside the cluster:-

If a pod inside the cluster wants to connect to a set of pods behind a service (clusterIP),

* knowing the service name is enough.



Accessing Services from outside the cluster:

what if an external client outside the kubernetes cluster wants to access behind a service??

* Special Service called NodePort



Builds on top of cluster IP



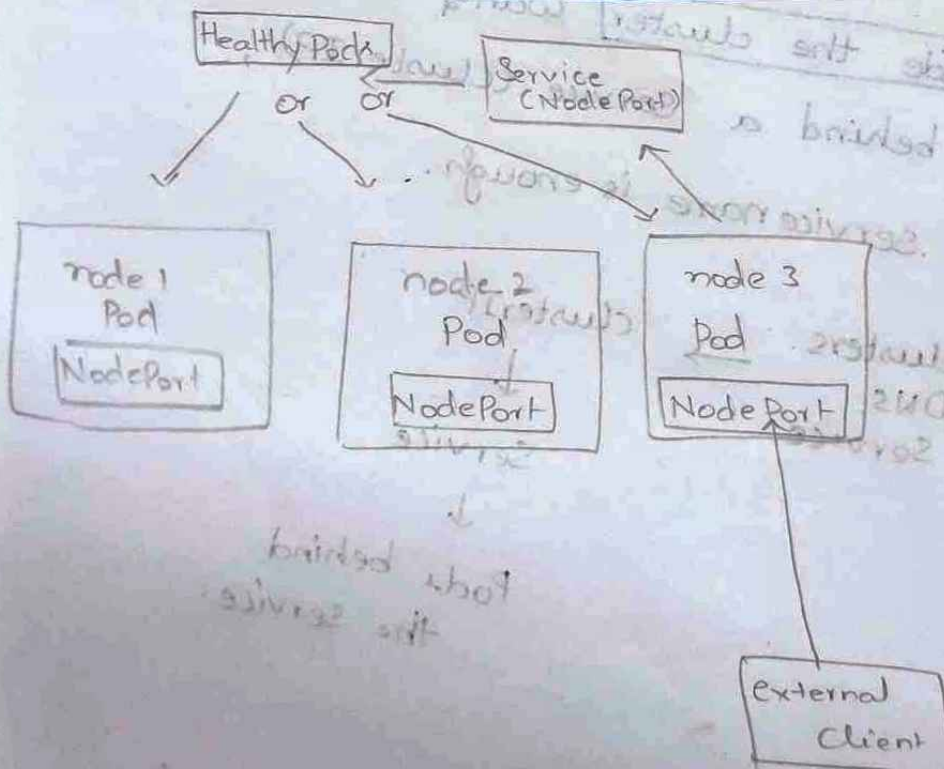
Assigns ~~Defines~~ a port on every node of cluster called Node Port



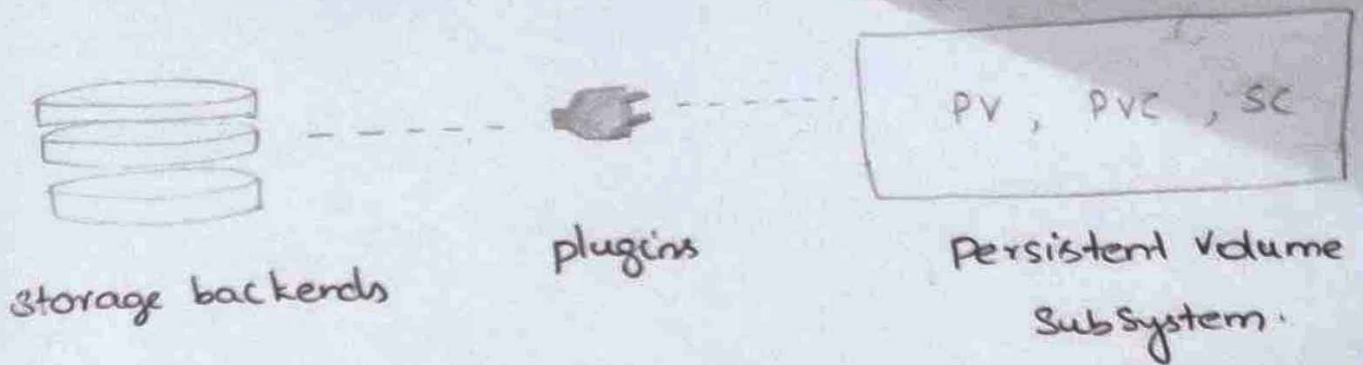
If the external client hits the Node Port on any of the node in cluster, it is redirected to the service



Internal clients can use it as cluster IP



kubernetes Storage



Remote Storage , Ephemeral Storage , Hostpath ,

Persistent Volume claim

Empty DIR & hostpath → Mounting the directory on node inside the Pod.

↳ *created on Node
When Pod is
Created. Persist
till the end of
Pod cycle...