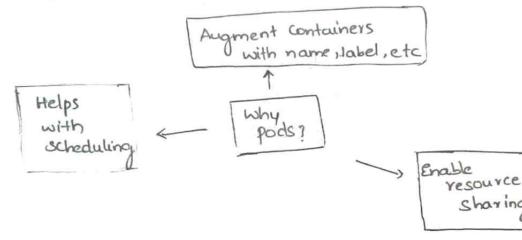
Pods :-

Controllers gift Pods with Super powers like self-healing, Scaling, etc.

* labels let you group pods.

why Pods?



Pods are mortal. That is why applications should always store state & data outside the Pod.

Deploying static Pods:

- 1. Define it in YAML manifest file.
- 2. POST the YAML to API Server.
- 3 API server authenticates & authorizes the request.
- 4. The YAML configuration is validated.
- 5. Scheduler deploys the pod to a healthy node

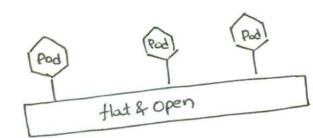
1

6 Local kubelet monitors it.

Think of Pod as OS Containers as processes running inside

Pod is a collection of resources & containers inherit them. net name spaces Domain sockets & Shared memory isolated process namespace tree Pod IPC namespace Resources UTS name space namespace

Pod networking:



- * Every Pod has unique IP address.
- * Pod network is flat & open meaning any pod in the cluster could communicate with other Pod in the cluster.

Short-lived & long-lived Pods
web servers, etc
botchjobs

Pod manifest files:

kind: Pod

apiversion: V1 metadata: (names, labels, annotations, NameSpaces etc)

subere containers are defined. Spec:

Spec !

-name:

o image:

Ports:

- containerPort: 8080.

native way to divide a single kes cluster into multiple virtual clusters.

* If you don't explicitly define a Namespace for a namespaced object, it will be deployed in a default Namespace Almost every kas object.

creaters newNamespace -> create imperatively. Kubectl

shield-ns.yml

kind: Name Space

kubecth apply -f strietd_ns.yml