- Varges objects en fubernetes.
  - 1) pod
  - 2> Selvice
  - 3) Replaca Set
  - 4> Deployment
  - 5> Confeque map
  - 67 Secret
  - 7> Volumes.

#### 1) pod 6-

- \* Smallest deployable unets of computing that we can create and manage in has.
- \* Consists of one or more containers with Shored Storage and network resources.

Simple pod défension file:-

apillesson: V.

Kend: pod

metadata:

name: nginx

Spec:

Containers:

- name: ngenx

image: ngenx:1.14.2

ports:

- containesport: 80

### 2> selvice :-

- \* A service is a method for exposing a network application that is running as one more pods in your cluster.
- \* Each Service object defines logical set of endpoints (usually these endpoints are pods) along with policy about how to make these pods available.

## 3> Replaca Set:-

\* A Replicaset's purpose is to maitain a stable set of pods running at any given time. i, e it is used to guarantee the availability of a Specified number of identical pods.

# 4) Deployment :-

- \* Depolyments provides declarative updates for pods & Replica Sets.
- \* You can describe State in deployment and the depolyment controlled changes actual state to desired State at Controlled State. You can define deployments to create new replicasets or to remove existing deployments and adopt all their resources with new deployments.

- 5> Configmaps:-
  - \* It is an API object used to Store key-value pairs which are non-confidential.
  - \* pods can consume configmaps as environments variable CLI arguements & config files en volumes.
  - \* Name of the configurap must be valid DNS Subdomain name.

# 6) Secrets:-

- \* A Secrets is a object that contains a small amount of Sensitive data such as password, a token or a key.
- \* using a Secret means you don't need to use Confidential data in your application code.

## 7) Volumes:-

On disk fales an a container are ephemeral, when container terminates / Crasher we lost all data.

Multiple containers are numbers in a pod and needs to share fales. It's challenging to establish shared fale System among all of containers, Rss "Volume" abstraction solves both of these problems.

- Fubernetes supports Several types of volumes.