

⑥ vol

- storage on local machine
- or remote, outside of the k8s cluster

⑦ Deployment

Define blueprint for pods

- specify how many replicas you want to have
- Blueprint for "my-app" pods
- You create Deployments
- Abstraction of pods

⑧ StatefulSet (sts)

- for databases

Deployment = for stateless Apps

Statefulset = for stateful Apps or Databases

Each Configuration file has 3 parts:-

① metadata

e.g. metadata:

name: nginx-deployment

② specification

e.g. spec:

replicas: 2

selector:

template:

- Attributes of "spec" are specific to the kind

③ status

- Automatically generated and added by k8s.
- etcd holds the ~~ext~~ current status of k8s container/component.

YAML Configuration Files

- "human friendly" data serialization standard for all programming languages
- syntax: strict indentatⁿ
- code editors have plugins for YAML syntax validation
- store the config file with your code
- or own git repo.

* What is Minikube?

It is a open source tool. Is basically one node cluster where the master processes and the worker processes both run on one node. And this node will have a docker container

runtime pre-installed.

* What is kubectl?

- command line tool for K8s cluster
- The most powerful of 3 clients
- Worker process enables pods to run on node

start a cluster passing docker as a driver option

minikube start --driver docker

check a status

minikube status

* Minikube has kubectl as dependency

* No separate installation necessary