

Type of Object

Thursday, December 9, 2021 11:23 PM

The screenshot shows a Kubernetes manifest file on the left and a table of object kinds on the right. The manifest file is named `nginx-pod.yaml` and contains the following content:

```
# nginx-pod.yaml
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
  labels:
    app: nginx
    tier: dev
spec:
  containers:
  - name: nginx-container
    image: nginx
```

The table on the right lists the following objects and their API versions:

Kind	apiVersion
Pod	v1
ReplicationController	V1
Service	v1
ReplicaSet	apps/v1
Deployment	apps/v1
DaemonSet	apps/v1
Job	batch/v1

At the bottom of the table, there are labels for the API versions: Alpha, ---> Beta, ---> Stable.

Types of Kubernetes Health check:

- Readiness=when Pod is ready to accept the traffic. (health)
- Liveness=when to Restart the pod (ping)

Replication Controller (rc) ---> deprecated

RC is a controller that is part of the Master Node's **Controller Manager**.

It makes sure the specified number of replicas for a Pod is running at any given point in time.

Available in master

ReplicaSet

A ReplicaSet (rs) is the next-generation ReplicationController.

Replica Sets support both equality- and set-based Selectors, whereas Replication Controllers only support equality-based Selectors.

Available in deployment

DaemonSet

DaemonSets manage groups of replicated Pods

- DaemonSets works on one-Pod-per-node mode