

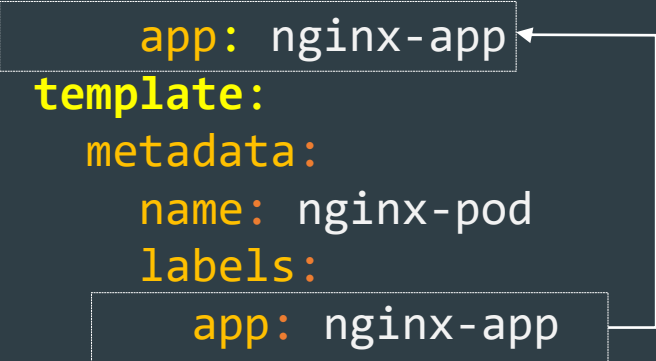


# Deployment YAML



## REPLICASET

```
apiVersion: apps/v1
kind: ReplicaSet
metadata:
  name: ngx-rs
spec:
  replicas: 4
  selector:
    matchLabels:
      app: ngx-app
  template:
    metadata:
      name: ngx-pod
      labels:
        app: ngx-app
    spec:
      containers:
        - name: ngx-container
          image: ngx
          ports:
            - containerPort: 80
```



## DEPLOYMENT

```
apiVersion: apps/v1
kind: Deployment ①
metadata:
  name: ngx-deploy
spec:
  replicas: 4
  selector:
    matchLabels:
      app: ngx-app
  template:
    metadata:
      name: ngx-pod
      labels:
        app: ngx-app
    spec:
      containers:
        - name: ngx-container
          image: ngx:1.18
          ports:
            - containerPort: 80
```



API Version of Resource Type

The kind we are creating

Specify all Metadata like name, labels

Desired number of Pod Instances

Selects Pods using this Selector

Pod Template used for creating new pods

## DEPLOYMENT STRATEGY: **ROLLINGUPDATE**

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deploy
spec:
  replicas: 4
  strategy:
    type: RollingUpdate
    RollingUpdate:
      maxSurge: 2
      maxUnavailable: 0
  selector:
    matchLabels:
      app: nginx-app
  template:
    metadata:
      name: nginx-pod
      labels:
        app: nginx-app
    spec:
      containers:
        - name: nginx-container
          image: nginx:1.19
          ports:
            - containerPort: 80
```

## DEPLOYMENT STRATEGY: **RECREATE**

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deploy
spec:
  replicas: 4
  strategy:
    type: Recreate
  selector:
    matchLabels:
      app: nginx-app
  template:
    metadata:
      name: nginx-pod
      labels:
        app: nginx-app
    spec:
      containers:
        - name: nginx-container
          image: nginx:1.19
          ports:
            - containerPort: 80
```