**Simple YML file for deployment**

apiVersion: apps/v1 # our API version

kind: Deployment # # The kind we are creating

metadata: # Specify all Metadata like name, labels

name: deployment

labels:

app: deploymentlabel

spec:

replicas: 3 # Here is where we tell k8s how many replicas we want

selector: # This is our label selector field.

matchLabels:

app: frontend # we are using the Equality based operators

template:

metadata:

labels:

app: frontend

spec:

containers:

- name: nginx

image: nginx:1.19.6

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Service YML file

apiVersion: v1

kind: Service

metadata:

name: nginxservice

labels:

name: nginxservice

spec:

ports:

- port: 80

nodePort: 30225

protocol: TCP

selector:

app: frontend

type: NodePort

**Commands for Deployments**

To deploy the deployments

kubectl create -f "name\_of\_deployment\_yml\_file"

List of running deployments

kubectl get deployments

List of Running Pods

kubectl get pods

List of running ReplicaSet

kubectl get rs

To see the labels automatically generated for each Pod.

kubectl get pods --show-labels

Get The list of Service

kubectl get service

Upgrade the app in deployments

kubectl set image deployment/<deployment name> appname=<newimage>

Check the Rollout Status

kubectl rollout status deployment/<deployment\_name>

Verify Rollout History

kubectl rollout history deployment/<deployment\_name>

To Rollback the changes

kubectl rollout undo deployment/<deployment\_name>

Edit Deployment, add Revision History

kubectl edit deployment/<deployment\_name>