**8. Create Deployment with YAML and Test**

--- in this lecture we will understand about deployments with yml.

--- **note** – deployment is nothing but superset of replicaset.

**Copy templates from ReplicaSet**

--- Copy templates from ReplicaSet and change the kind: Deployment

--- Update Container Image version to 3.0.0

--- Update NodePort service nodePort: 31233

--- Change all names to Deployment

--- Change all labels and selectors to myapp3

**# Create Deployment**

apiVersion: apps/v1

kind: Deployment

metadata:

  name: myapp3-deployment

spec:

  replicas: 3

  selector:

    matchLabels:

      app: myapp3

  template:

    metadata: # Dictionary

      name: myapp3-pod

      labels: # Dictionary

        app: myapp3

    spec:

      containers: # List

        - name: myapp3-container

          image: stacksimplify/kubenginx:3.0.0

          ports:

            - containerPort: 80

--- **kubectl apply -f 02-deployment-definition.yml**

--- **kubectl get deploy**

--- **kubectl get rs**

--- **kubectl get po**

**# Create NodePort Service**

apiVersion: v1

kind: Service

metadata:

  name: deployment-nodeport-service

spec:

  type: NodePort

  selector:

    app: myapp3

  ports:

    - name: http

      port: 80

      targetPort: 80

      nodePort: 31233

--- **kubectl apply -f 03-deployment-nodeport-service.yml**

**# List Service**

--- **kubectl get svc**

**# Get Public IP**

--- **kubectl get nodes -o wide**

**# Access Application**

--- http://<Worker-Node-Public-IP>:31233

**API References**

--- **Deployment:** https://kubernetes.io/docs/reference/generated/kubernetes-api/v1.18/#deployment-v1-apps