Steps to deploying K8S pods:

1. Create master and worker nodes.
2. Install docker and K8S in master node.
3. In master node we have KubeControllers and KubeSchedulers.
4. In worker node we have containers, pods, KubeProxy, container runtime.
5. Create a manifest file (deployment.yml).

In .yml file

**apiVersion**: apps/v1

**kind**: Deployment

**metadata**:

**name**: nginx-deployment

**labels**:

**app**: nginx

**spec**:

**replicas**: 3

**selector**:

**matchLabels**:

**app**: nginx

**template**:

**metadata**:

**labels**:

**app**: nginx

**spec**:

**containers**:

- **name**: nginx

**image**: nginx:1.14.2

**ports**:

- **containerPort**: 80

1. Configure the .yml file and edit this file using vi editor in gitbash

(vi deployment.yml).

1. For deployment apply command (kubectl apply -f deploy.yml).
2. To check the status of deployment use command (kubectl get deploy)
3. Put the worker node IP address along with port number of deployment to check the whether deployment is working or not.
4. To get the information of pods apply command (kubectl get nodes -o wide).
5. To check the deployment apply command (kubectl get deploy).
6. To expose the deployment apply command (kubectl expose deploy myapp-deployment – type=nodeport).
7. To check the service apply command (kubectl get svc (or) service).