C:\Users\mayan\AppData\Local\Microsoft\WindowsApps

oc login https://api.mayankopenshift.openshiftlabs.xyz:6443 -u admin -p redhat@1234

99 oc login https://api.mayankopenshift.openshiftlabs.xyz:6443 -u admin -p redhat@1234

100 oc project

101 oc get project

102 oc new-project mayank

103 oc project

104 oc get all

105 #oc run testpod --image nginx

106 oc api-resources

107 oc api-resources | wc -l

108 oc api-resources | grep -i pod

109 oc run testpod --image nginx

110 oc get pods

111 oc get pods -o wide

112 oc get nodes

113 oc describe pod testpod l

114 oc describe pod testpod

115 oc get pods

116 oc delete pod testpod

117 oc get pods

118 oc create deployment test1 --image nginx

119 oc get all

120 oc logs test1-f4d6d5468-f2kbm

122 oc delete pod test1-f4d6d5468-f2kbm

123 oc get all

124 oc get pods -o wid

125 oc get pods -o wide

126 oc describe deployment test1

127 oc describe rs test1-f4d6d5468

128 oc describe pod test1-f4d6d5468-2g8mn

129 oc delete rs test1-f4d6d5468

130 oc get all

131 oc delete deployment test1

132 oc get all

133 history

**TASK :-**

1. **Login Openshift**
   1. **Cli**
   2. **Webconsole**
2. **Create one Project with either cli or console** 
   1. **Name of project should be your username of openshift**
3. **After creating project you have to confirm me that you have created so that i can give you access**
4. **Create one pod using cli with name of your name and image should be quay.io/mayank123modi/myhttpd**
5. **Create one pod using webconsole with name of your name and image should be quay.io/mayank123modi/mynginx**
6. **Create one deployment with test name and image should be quay.io/mayank123modi/myserver using cli**
7. **Create one deployment with test name and image should be quay.io/mayank123modi/myapache using console**

**PODS YAML**

**112 cat 1-pod.yml**

**113 oc create -f 1-pod.yml**

**114 cat 1**

**115 cat 1-pod.yml**

**116 oc run podname --image quay.io/mayank123modi/myapache --dry-run**

**117 oc get pods**

**118 oc run podname --image quay.io/mayank123modi/myapache --dry-run -o yaml**

**119 oc run podname --image quay.io/mayank123modi/myapache --dry-run -o yaml > 2-pod.yml**

**120 cat 2-pod.yml**

**121 oc get pods**

**122 oc create -f 2**

**123 oc create -f 2-pod.yml**

**124 oc get pods**

**125 oc delete -f 1-pod.yml**

**126 oc delete -f 2-pod.yml**

**127 oc create deployment mayank --image quay.io/mayank123modi/myapache**

**128 oc delete deployment mayank**

**129 oc create deployment mayank --image quay.io/mayank123modi/myapache --dry-run -o yaml**

**130 oc create deployment mayank --image quay.io/mayank123modi/myapache --dry-run -o yaml > 3-dep.yml**

**131 cat 3-dep.yml**

**132 oc get all**

**133 oc create -f 3-dep.yml**

**134 oc get all**

**135 history**

**[root@openshift code]# cat 1-pod.yml**

**apiVersion: v1**

**kind: Pod**

**metadata:**

**name: mayank**

**spec:**

**containers:**

**- name: mycontainer**

**image: quay.io/mayank123modi/myapache**

**[root@openshift code]# cat 3-dep.yml 3**

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**creationTimestamp: null**

**labels:**

**app: mayank**

**name: mayank**

**spec:**

**replicas: 1**

**selector:**

**matchLabels:**

**app: mayank**

**strategy: {}**

**template:**

**metadata:**

**creationTimestamp: null**

**labels:**

**app: mayank**

**spec:**

**containers:**

**- image: quay.io/mayank123modi/myapache**

**name: myapache**

**resources: {}**

**Services**

**145 oc project**

**146 oc get all**

**147 oc delete deployment mayank**

**148 oc create deployment mayank --image quay.io/mayank123modi/myapache**

**149 oc describe deployment mayank**

**150 oc get alll**

**151 oc get all**

**152 oc get all --show-label**

**153 oc get all --show-labels**

**154 oc get pods -o wide**

**155 oc expose deployment mayank --port 80**

**156 oc get svc**

**157 oc get pods -o wide**

**158 oc describe svc mayank**

**159 oc delete pod mayank-969c56798-qvxn5**

**160 oc get pods -o wide**

**161 oc describe svc mayank**

**162 oc expose svc mayank**

**163 oc get sroute**

**164 oc get route**

**165 oc expose deployment mayank --port 80 --type NodePort --name svc1**

**166 oc get pods -o wide**

**167 oc describe svc svc1**

**168 oc get node**

**169 oc debug ip-10-0-19-101.ec2.internal**

**170 oc debug node ip-10-0-19-101.ec2.internal**

**171 oc debug**

**172 oc debug --help**

**173 oc get nodes**

**174 oc debug node/ip-10-0-19-101.ec2.internal**

**175 oc get svc**

**176 oc expose svc svc1**

**177 oc get route**

**178 oc delete svc mayank**

**179 oc delete svc svc1**

**180 oc get deployment**

**181 oc describe deployment mayank**

**182 oc edit deployment mayank**

**183 oc get pods**

**184 oc edit deployment mayank**

**185 oc get all**

**186 oc expose deployment mayank --port 80 --type LoadBalancer**

**187 oc get svc**

**188 oc expose svc mayank**

**189 oc expose svc mayank --name modi**

**190 oc expose svc mayank**

**191 oc get route**

**192 oc delete all --all --force**

**193 cat 3-dep.yml**

**194 oc create -f 3-dep.yml**

**195 oc create service clusterip modi --tcp 80 --dry-run -o yaml**

**196 oc create service clusterip modi --tcp 80 --dry-run -o yaml > 4-svc.yaml**

**197 vim 4-svc.yaml**

**198 oc create -f 4-svc.yaml**

**199 oc get pods -o wide**

**200 oc get svc**

**201 oc describe svc modi**

**202 oc get pods -o wide --show-labels**

**203 oc edit svc modi**

**204 oc describe svc modi**

**205 cat 3-dep.yml**

**206 cat 4-svc.yaml**

**207 history**

**[root@openshift code]# cat 3-dep.yml**

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**creationTimestamp: null**

**labels:**

**app: mayank**

**name: mayank**

**spec:**

**replicas: 1**

**selector:**

**matchLabels:**

**app: mayank**

**strategy: {}**

**template:**

**metadata:**

**creationTimestamp: null**

**labels:**

**app: mayank**

**spec:**

**containers:**

**- image: quay.io/mayank123modi/myapache**

**name: myapache**

**resources: {}**

**status: {}**

**[root@openshift code]# cat 4-svc.yaml**

**apiVersion: v1**

**kind: Service**

**metadata:**

**creationTimestamp: null**

**labels:**

**app: modi**

**name: modi**

**spec:**

**ports:**

**- name: "80"**

**port: 80**

**protocol: TCP**

**targetPort: 80**

**selector:**

**app: modi**

**type: ClusterIP**

**status:**

**loadBalancer: {}**

TASKS:1 -

1. Create a deployment using [quay.io/mayank123modi/mayanknginximage](http://quay.io/mayank123modi/mayanknginximage) — try to expose it using cli method by cluster ip
2. Create a deployment using quay.io/mayank123modi/myserver — try to expose it using cli method by nodeport
3. Create a deployment using quay.io/mayank123modi/myserver — try to expose it using cli method by Loadbalancer
4. Create a deployment using quay.io/mayank123modi/myserver — try to expose it using yaml method by cluster ip
5. Create a deployment using quay.io/mayank123modi/myserver — try to expose it using yaml method by nodeport
6. Create a deployment using quay.io/mayank123modi/myserver — try to expose it using yaml method by loadbalcner