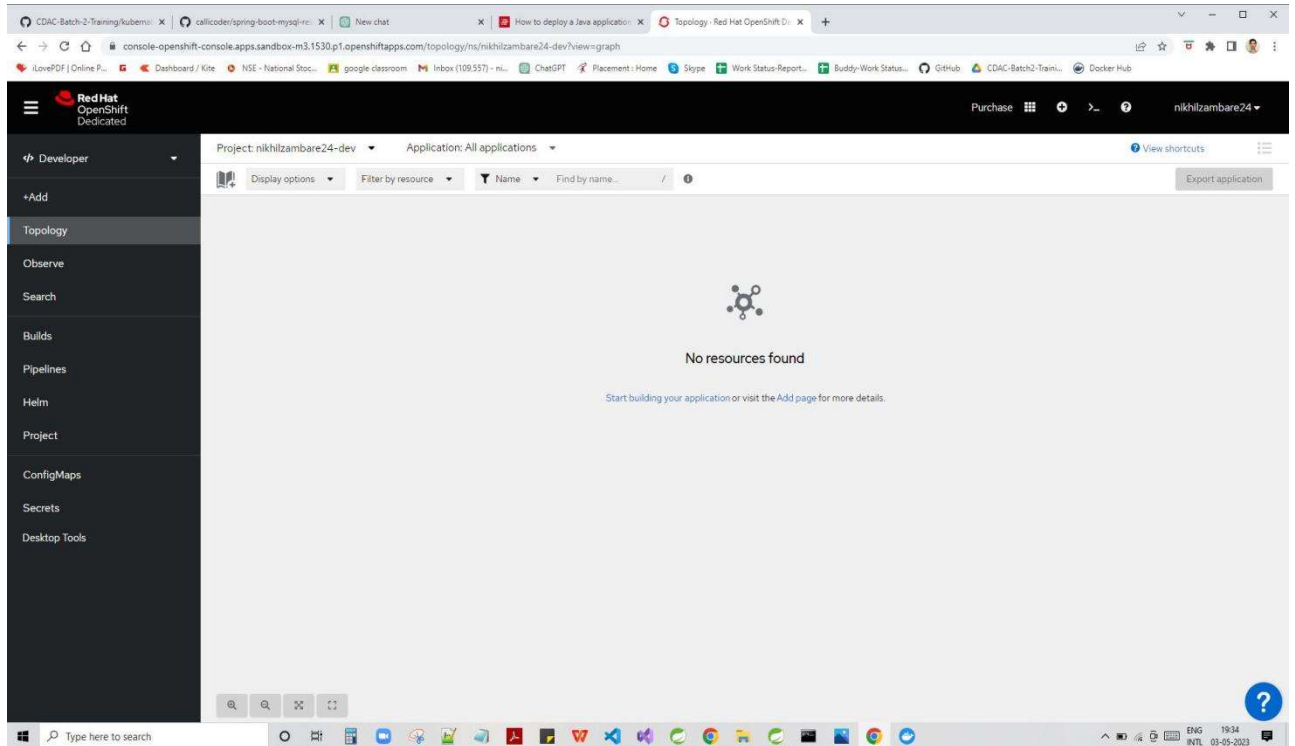
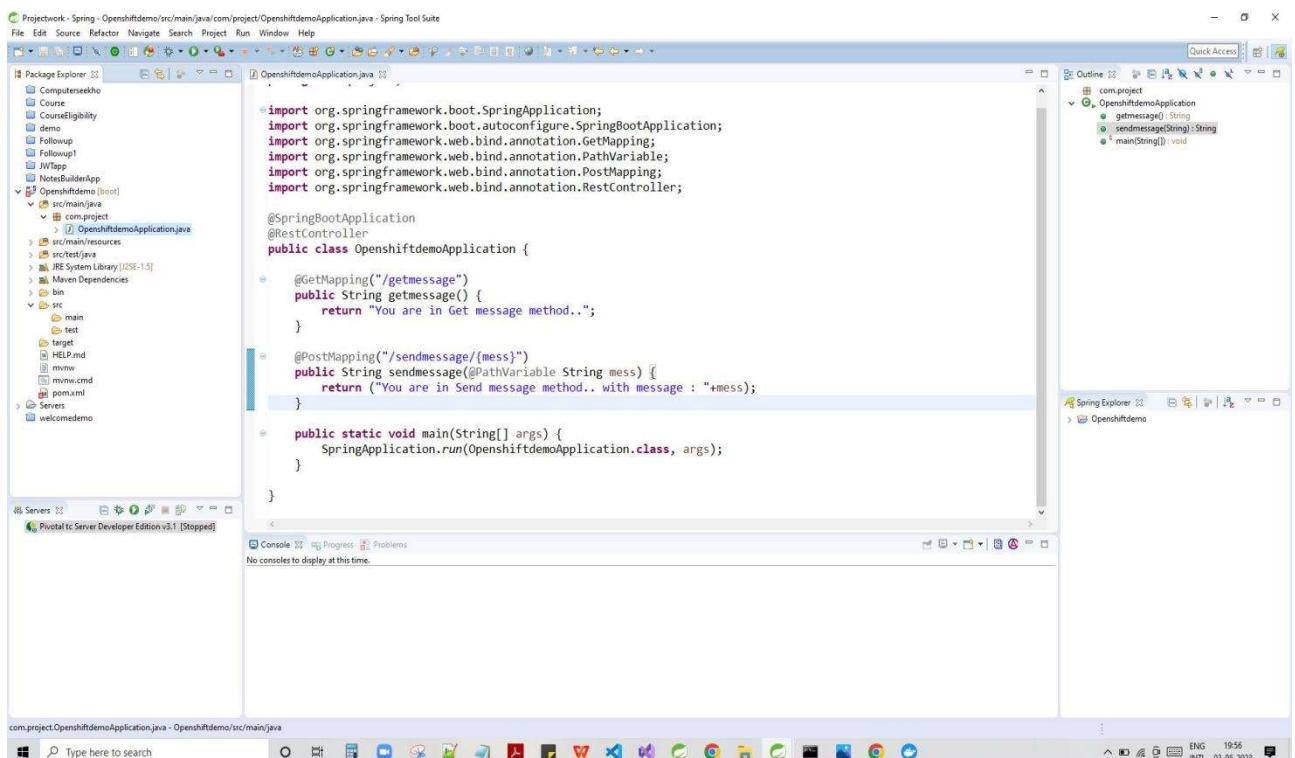


- OpenShift Basics

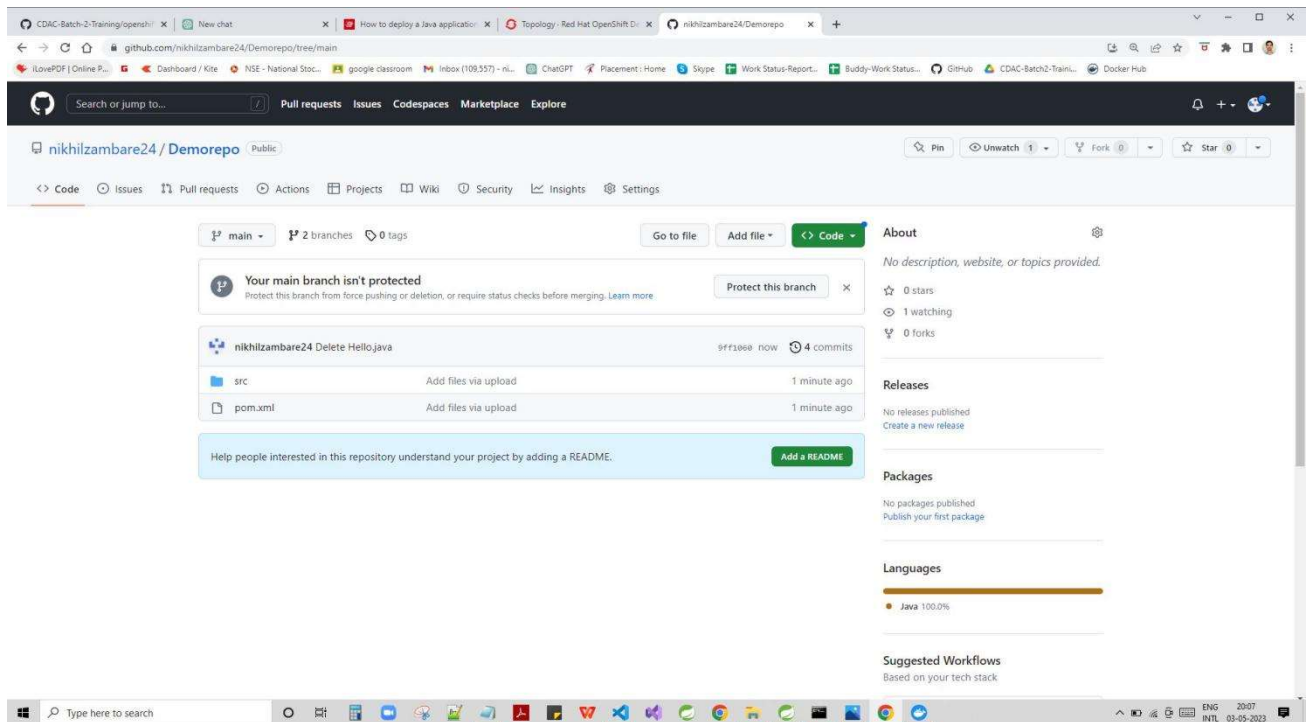
// Created an account on RedHat Openshift



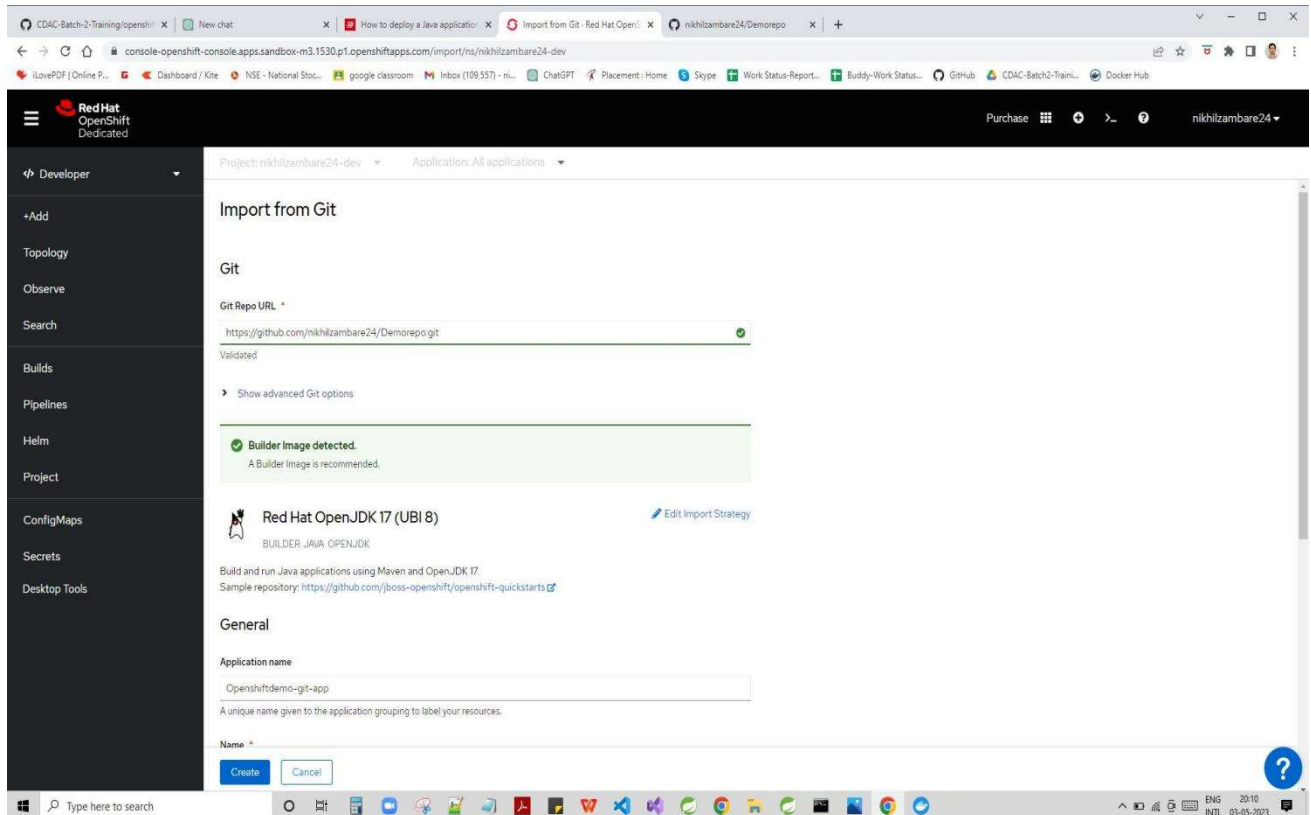
// Created a demo application using java spring boot



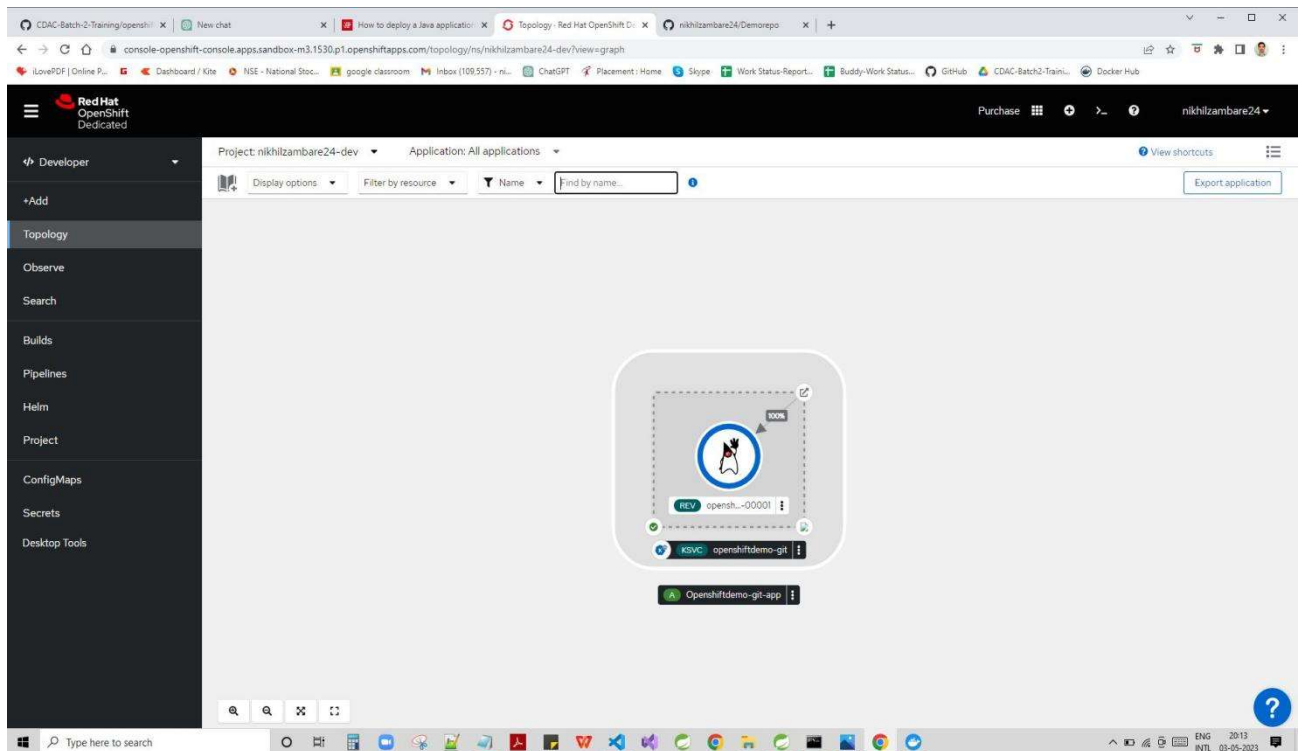
// Uploaded demo project on git hub repository



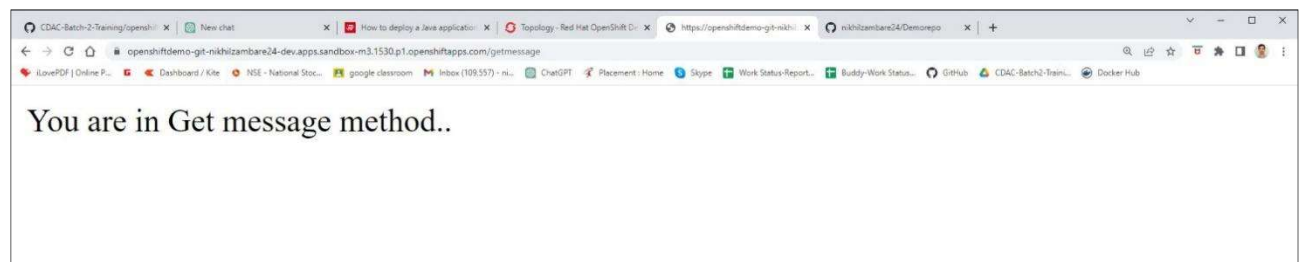
// Imported from Git to RedHat Openshift using repo URL



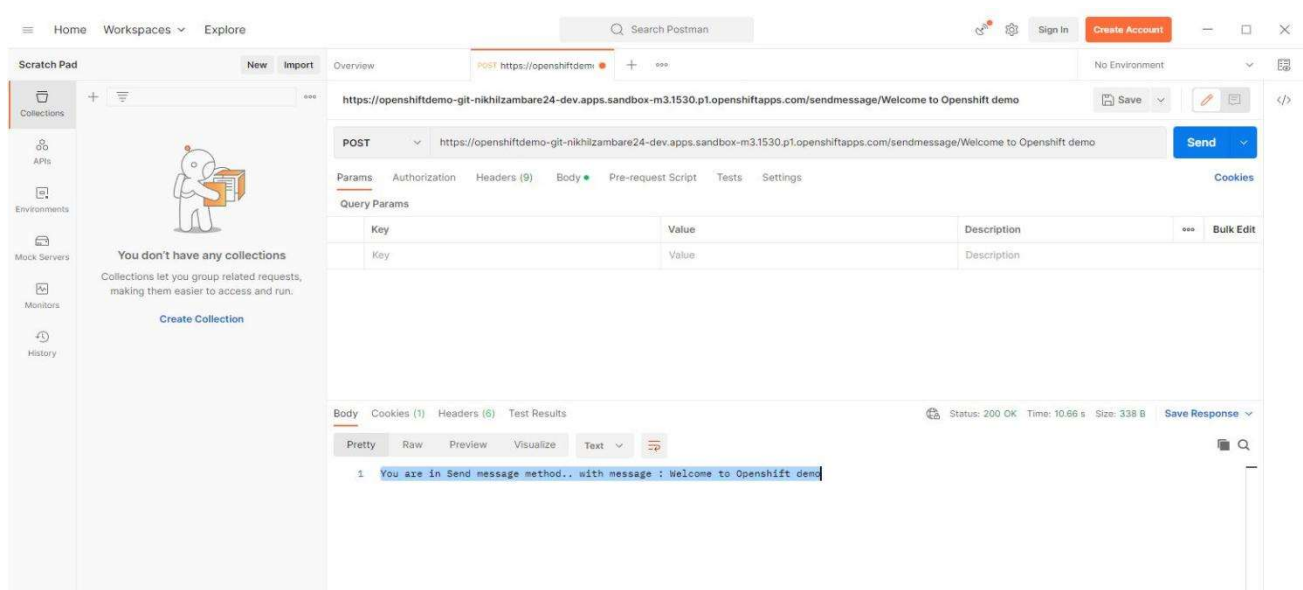
// Uploading Git repository project and running on RedHat Openshift



// Running from Openshift to browser (GET - getmessage method)



// Running from Openshift to postman (POST - sendmessage method)



// Logged in to Openshift account from CLI

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.1556]
(c) 2019 Microsoft Corporation. All rights reserved.

E:\Softwares\oc>oc login --token=sha256~6QNqZTY0Ea830Le07F8dKL0zal9N42vsp6s8y-Rrz9w --server=https://api.sandbox-m3.1530.p1.openshiftapps.com:6443
Logged into "https://api.sandbox-m3.1530.p1.openshiftapps.com:6443" as "nikhilzambare24" using the token provided.

You have one project on this server: "nikhilzambare24-dev"

Using project "nikhilzambare24-dev".

E:\Softwares\oc>
```

// to retrieve information about all resources of all types in your OpenShift project. This includes information about Pods, Services, Deployments etc.

```
C:\Windows\System32\cmd.exe
E:\Softwares\oc>oc get all

NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
service/modelmesh-serving           ClusterIP           None            <none>            8033/TCP,8008/TCP,8443/TCP,2112/TCP  17h
service/openshiftdemo-git           ExternalName        <none>          kourier-internal.knative-serving-ingress.svc.cluster.local  80/TCP          16h
service/openshiftdemo-git-00001     ClusterIP           172.30.98.16    <none>            80/TCP,443/TCP    16h
service/openshiftdemo-git-00001-private ClusterIP           172.30.190.122  <none>            80/TCP,443/TCP,9090/TCP,9091/TCP,8022/TCP,8012/TCP  16h

NAME                                READY    UP-TO-DATE    AVAILABLE    AGE
deployment.apps/openshiftdemo-git-00001-deployment  0/0      0              0            16h

NAME                                DESIRED    CURRENT    READY    AGE
replicaset.apps/openshiftdemo-git-00001-deployment-6fbb55c7d7  0          0          0        16h

NAME                                TYPE      FROM      LATEST
buildconfig.build.openshift.io/openshiftdemo-git  Source    Git        1

NAME                                TYPE      FROM      STATUS      STARTED      DURATION
build.build.openshift.io/openshiftdemo-git-1      Source    Git@9ff1060 Complete    17 hours ago  1m0s

NAME                                IMAGE REPOSITORY          TAGS      UPDATED
imagestream.image.openshift.io/openshiftdemo-git  default-route-openshift-image-registry.apps.sandbox-m3.1530.p1.openshiftapps.com/nikhilzambare24-dev/openshiftdemo-git  latest    17 hours ago

NAME                                LATESTCREATED    LATESTREADY    READY    REASON
configuration.serving.knative.dev/openshiftdemo-git  openshiftdemo-git-00001    openshiftdemo-git-00001    True

NAME                                URL                                LATESTCREATED    LATESTREADY    READY    REASON
service.serving.knative.dev/openshiftdemo-git  https://openshiftdemo-git-nikhilzambare24-dev.apps.sandbox-m3.1530.p1.openshiftapps.com  openshiftdemo-git-00001    openshiftdemo-git-00001    True

NAME                                CONFIG NAME    K8S SERVICE NAME    GENERATION    READY    REASON    ACTUAL REPLICAS    DESIRED REPLICAS
revision.serving.knative.dev/openshiftdemo-git-00001  openshiftdemo-git  openshiftdemo-git  1              True    0          0

NAME                                URL                                READY    REASON
route.serving.knative.dev/openshiftdemo-git  https://openshiftdemo-git-nikhilzambare24-dev.apps.sandbox-m3.1530.p1.openshiftapps.com  True
```

// to retrieve information about all the Services in your OpenShift project.

```
Select C:\Windows\System32\cmd.exe
E:\Softwares\oc>
E:\Softwares\oc>oc get svc

NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
modelmesh-serving                   ClusterIP           None            <none>            8033/TCP,8008/TCP,8443/TCP,2112/TCP  17h
openshiftdemo-git                   ExternalName        <none>          kourier-internal.knative-serving-ingress.svc.cluster.local  80/TCP          16h
openshiftdemo-git-00001             ClusterIP           172.30.98.16    <none>            80/TCP,443/TCP    16h
openshiftdemo-git-00001-private     ClusterIP           172.30.190.122  <none>            80/TCP,443/TCP,9090/TCP,9091/TCP,8022/TCP,8012/TCP  16h

E:\Softwares\oc>
```

// to create a Route for a Service in your OpenShift project.

```
C:\Windows\System32\cmd.exe
E:\Softwares\oc>oc get svc

NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
modelmesh-serving                   ClusterIP           None            <none>            8033/TCP,8008/TCP,8443/TCP,2112/TCP  17h
openshiftdemo-git                   ExternalName        <none>          kourier-internal.knative-serving-ingress.svc.cluster.local  80/TCP          16h
openshiftdemo-git-00001             ClusterIP           172.30.98.16    <none>            80/TCP,443/TCP    16h
openshiftdemo-git-00001-private     ClusterIP           172.30.190.122  <none>            80/TCP,443/TCP,9090/TCP,9091/TCP,8022/TCP,8012/TCP  16h

E:\Softwares\oc>oc expose svc openshiftdemo-git
route.route.openshift.io/openshiftdemo-git exposed

E:\Softwares\oc>oc expose svc openshiftdemo-git-00001
route.route.openshift.io/openshiftdemo-git-00001 exposed

E:\Softwares\oc>
```

// to retrieve information about all the Routes in your OpenShift project.

```
C:\Windows\System32\cmd.exe
E:\Softwares\oc> oc get routes
NAME                                PATH SERVICES PORT TERMINATION WILDCARD
openshiftdemo-git                  HostAlreadyClaimed
openshiftdemo-git-00001            openshiftdemo-git-00001-nikhilzambare24-dev.apps.sandbox-#3.1530.p1.openshiftapps.com openshiftdemo-git-00001 http None None
E:\Softwares\oc>
```

// to create a new Pod in your OpenShift project.

```
C:\Windows\System32\cmd.exe
operable program or batch file.
E:\Softwares\oc> oc run my-pod --image=openshiftdemo:latest --port=8080
pod/my-pod created
E:\Softwares\oc> oc get pod
NAME READY STATUS RESTARTS AGE
my-pod 0/1 ImagePullBackOff 0 77s
E:\Softwares\oc>
```

// to retrieve information about all the Deployments in your OpenShift project.

```
C:\Windows\System32\cmd.exe
E:\Softwares\oc>
E:\Softwares\oc> oc get deploy
NAME READY UP-TO-DATE AVAILABLE AGE
openshiftdemo-git-00001-deployment 0/0 0 0 17h
E:\Softwares\oc>
```

// to create a new Deployment in your OpenShift project.

```
C:\Windows\System32\cmd.exe
E:\Softwares\oc> oc create deployment my-pod --image=openshiftdemo-git
deployment.apps/my-pod created
E:\Softwares\oc> oc get po
NAME READY STATUS RESTARTS AGE
my-pod 0/1 ImagePullBackOff 0 7m58s
my-pod-998ccdcf5-tp422 0/1 ErrImagePull 0 31s
E:\Softwares\oc>
E:\Softwares\oc>
```

// to retrieve information about all the ReplicaSets in your OpenShift project.

```
C:\Windows\System32\cmd.exe
E:\Softwares\oc> oc get rs
NAME DESIRED CURRENT READY AGE
openshiftdemo-git-00001-deployment-6fbb55c7d7 0 0 0 17h
E:\Softwares\oc>
```

// to delete a specific Pod in your OpenShift project.

```
C:\Windows\System32\cmd.exe
E:\Softwares\oc> oc delete po my-pod-998ccdcf5-tp422
pod "my-pod-998ccdcf5-tp422" deleted
E:\Softwares\oc> oc get pod
NAME READY STATUS RESTARTS AGE
my-pod 0/1 ImagePullBackOff 0 26m
my-pod-998ccdcf5-k14kv 0/1 ImagePullBackOff 0 11s
E:\Softwares\oc>
```