Name: Madhavi Suratkar

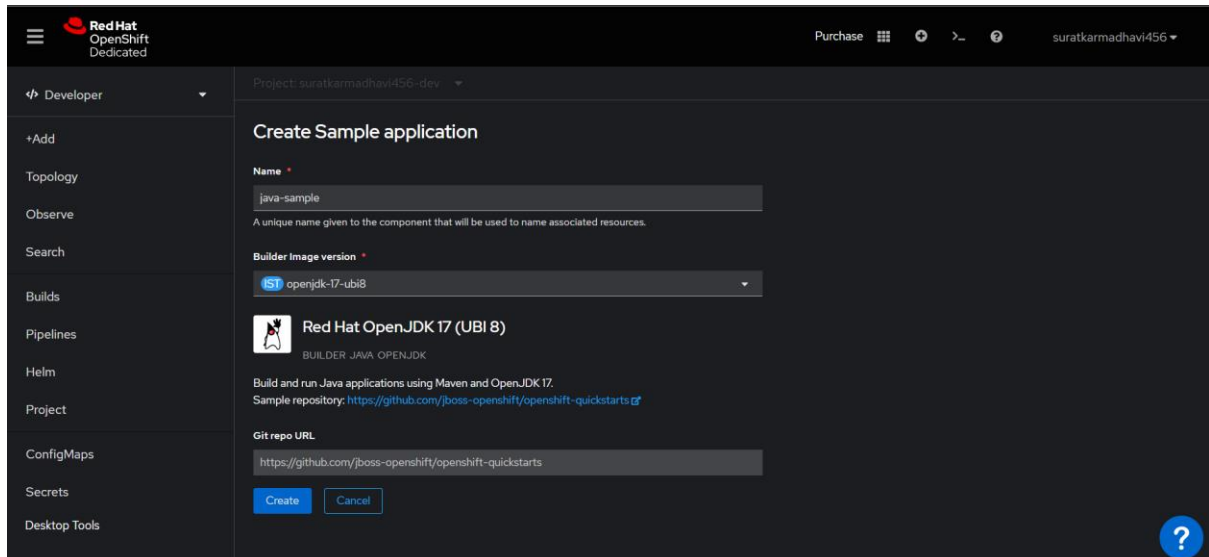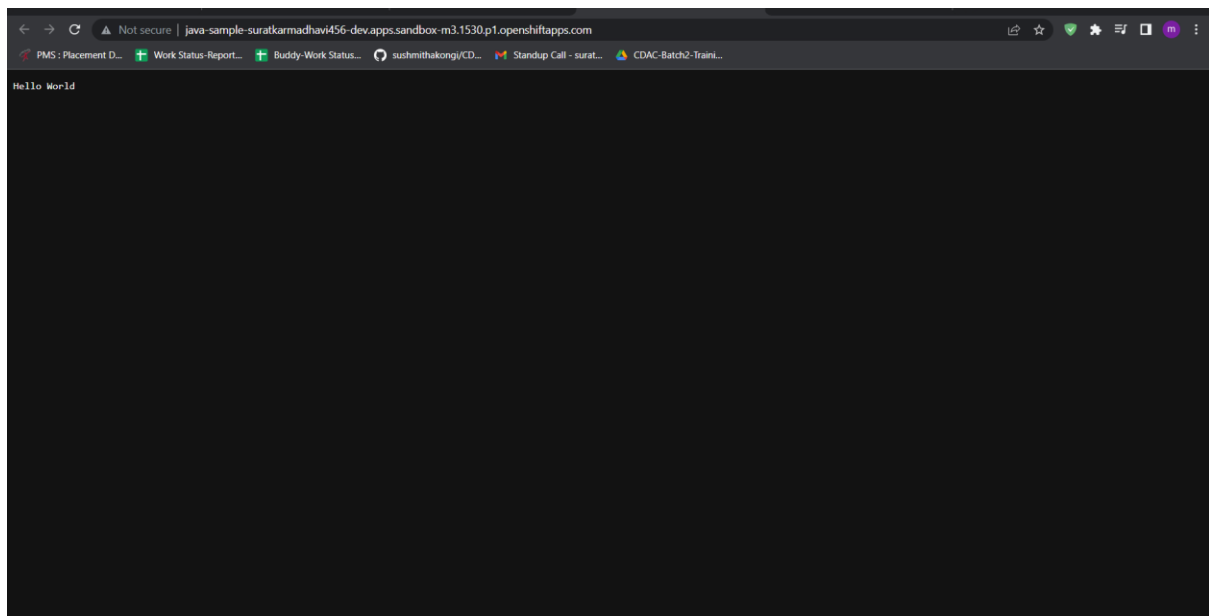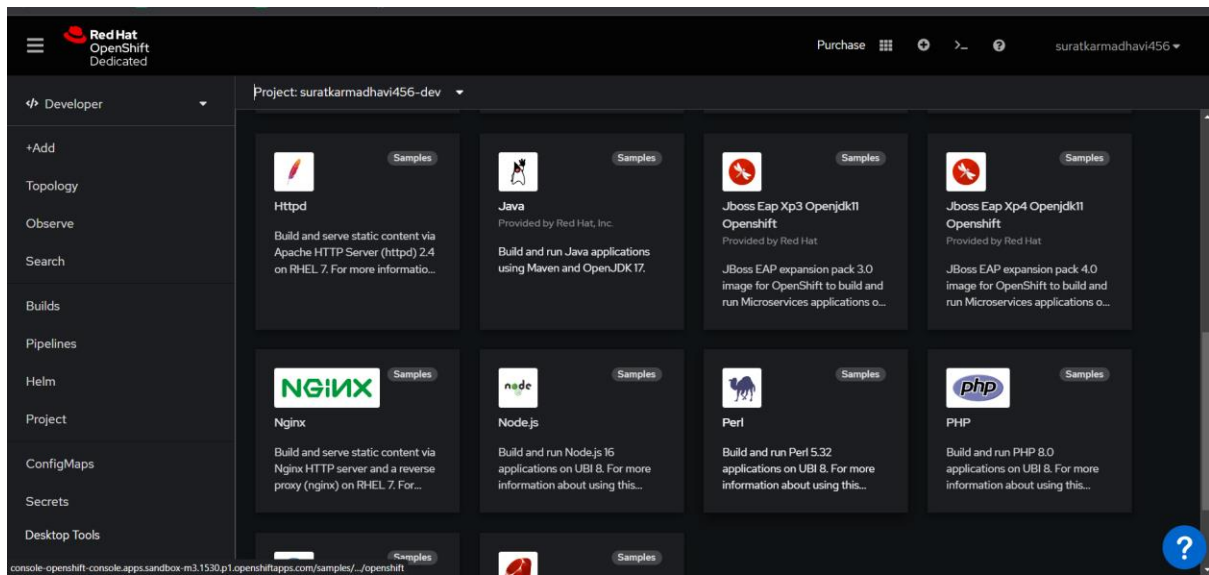**Topic : OpenShift**

Date : 04-05-2023

Hello World
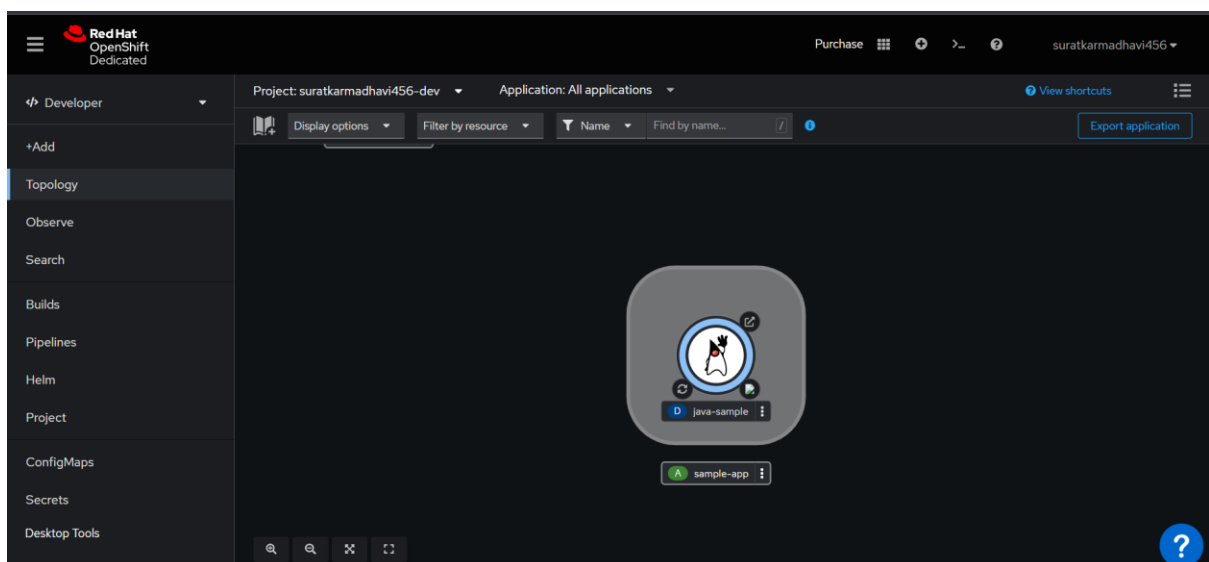
OpenShift Command Practice

```
bash-4.4 ~ $ oc get po -w
NAME                                            READY   STATUS            RESTARTS          AGE
java-sample-1-build                             0/1     Completed         0                 9m36s
java-sample-6d66595887-n8b42                    1/1     Running           0                 8m48s
login-page-1-build                              0/1     Completed         0                 8h
login-page-2-build                              0/1     Completed         0                 8h
login-page-7f955b57bd-15kvh                     0/1     CrashLoopBackOff  105 (3m12s ago)   8h
net-mini-project-git-1-build                    0/1     Error             0                 8h
net-mini-project-git-865b94b6bd-vmgnb           0/1     ErrImagePull      0                 8h
workspace93747217276742f5-b85f9f96b-7cvc5       2/2     Running           0                 4m29s
net-mini-project-git-865b94b6bd-vmgnb           0/1     ImagePullBackOff  0                 8h
```



```
bash-4.4 ~ $ oc get po
NAME                                            READY   STATUS            RESTARTS          AGE
java-sample-1-build                             0/1     Completed         0                 10m
java-sample-6d66595887-n8b42                    1/1     Running           0                 9m34s
login-page-1-build                              0/1     Completed         0                 8h
login-page-2-build                              0/1     Completed         0                 8h
login-page-7f955b57bd-15kvh                     0/1     CrashLoopBackOff  105 (3m58s ago)   8h
net-mini-project-git-1-build                    0/1     Error             0                 8h
net-mini-project-git-865b94b6bd-vmgnb           0/1     ImagePullBackOff  0                 8h
workspace93747217276742f5-b85f9f96b-7cvc5       2/2     Running           0                 5m15s
bash-4.4 ~ $
```



```
bash-4.4 ~ $ oc new-app --image=python --name=python-img
--> Found container image 815c8c7 (16 hours old) from Docker Hub for "python"

    * An image stream tag will be created as "python-img:latest" that will track this image

--> Creating resources ...
    imagestream.image.openshift.io "python-img" created
    deployment.apps "python-img" created
--> Success
    Run 'oc status' to view your app.
bash-4.4 ~ $
```

```
bash-4.4 ~ $ oc get po
NAME                                        READY    STATUS            RESTARTS         AGE
java-sample-1-build                         0/1      Completed         0                18m
java-sample-6d66595887-n8b42                1/1      Running           0                18m
login-page-1-build                          0/1      Completed         0                8h
login-page-2-build                          0/1      Completed         0                8h
login-page-7f955b57bd-15kvh                 0/1      CrashLoopBackOff  107 (2m19s ago)  8h
net-mini-project-git-1-build                0/1      Error             0                8h
net-mini-project-git-865b94b6bd-vmgnb       0/1      ImagePullBackOff  0                8h
python-img-78dc5d6cb5-2rzcf                 0/1      CrashLoopBackOff  3 (13s ago)      57s
workspace93747217276742f5-b85f9f96b-7cvc5   2/2      Running           0                13m
bash-4.4 ~ $ oc get svc
NAME                                  TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)                            AGE
java-sample                           ClusterIP   172.30.21.92     <none>        8080/TCP,8443/TCP                  19m
login-page                            ClusterIP   172.30.130.194   <none>        8080/TCP,8443/TCP                  8h
modelmesh-serving                     ClusterIP   None             <none>        8033/TCP,8008/TCP,8443/TCP,2112/TCP 9h
net-mini-project-git                  ClusterIP   172.30.28.154    <none>        8080/TCP                           8h
workspace93747217276742f5-service     ClusterIP   172.30.240.224   <none>        4444/TCP                           14m
bash-4.4 ~ $
```

```
NAME                                        READY    STATUS            RESTARTS         AGE
java-sample-1-build                         0/1      Completed         0                18m
java-sample-6d66595887-n8b42                1/1      Running           0                18m
login-page-1-build                          0/1      Completed         0                8h
login-page-2-build                          0/1      Completed         0                8h
login-page-7f955b57bd-15kvh                 0/1      CrashLoopBackOff  107 (2m19s ago)  8h
net-mini-project-git-1-build                0/1      Error             0                8h
net-mini-project-git-865b94b6bd-vmgnb       0/1      ImagePullBackOff  0                8h
python-img-78dc5d6cb5-2rzcf                 0/1      CrashLoopBackOff  3 (13s ago)      57s
workspace93747217276742f5-b85f9f96b-7cvc5   2/2      Running           0                13m
bash-4.4 ~ $ oc get svc
NAME                                  TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)                            AGE
java-sample                           ClusterIP   172.30.21.92     <none>        8080/TCP,8443/TCP                  19m
login-page                            ClusterIP   172.30.130.194   <none>        8080/TCP,8443/TCP                  8h
modelmesh-serving                     ClusterIP   None             <none>        8033/TCP,8008/TCP,8443/TCP,2112/TCP 9h
net-mini-project-git                  ClusterIP   172.30.28.154    <none>        8080/TCP                           8h
workspace93747217276742f5-service     ClusterIP   172.30.240.224   <none>        4444/TCP                           14m
bash-4.4 ~ $ oc get routes
NAME                  HOST/PORT                                                                   PATH   SERVICES              PORT       TERMINATION     WI
                                                                                                                                                          LDCARD
java-sample           java-sample-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com        java-sample           8080-tcp                   No
                                                                                                                                                          ne
login-page            login-page-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com         login-page            8080-tcp   edge/Redirect   No
                                                                                                                                                          ne
net-mini-project-git  net-mini-project-git-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com net-mini-project-git  8080-tcp   edge/Redirect   No
                                                                                                                                                          ne
bash-4.4 ~ $
```

```
bash-4.4 ~ $ oc get routes
NAME                  HOST/PORT                                                                   PATH   SERVICES              PORT       TERMINATION     WI
                                                                                                                                                          LDCARD
java-sample           java-sample-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com        java-sample           8080-tcp                   No
                                                                                                                                                          ne
login-page            login-page-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com         login-page            8080-tcp   edge/Redirect   No
                                                                                                                                                          ne
net-mini-project-git  net-mini-project-git-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com net-mini-project-git  8080-tcp   edge/Redirect   No
                                                                                                                                                          ne
bash-4.4 ~ $ oc get deploy
NAME                         READY    UP-TO-DATE   AVAILABLE   AGE
java-sample                  1/1      1            1           23m
login-page                   0/1      1            0           8h
net-mini-project-git         0/1      1            0           8h
python-img                   0/1      1            0           5m28s
workspace93747217276742f5    1/1      1            1           18m
bash-4.4 ~ $
```

```
net-mini-project-git      0/1    1       0       8h
python-img                0/1    1       0       5m28s
workspace93747217276742f5 1/1    1       1       18m
bash-4.4 ~ $ oc describe deploy java-sample
Name:                   java-sample
Namespace:              suratkarmadhavi456-dev
CreationTimestamp:      Thu, 04 May 2023 11:57:45 +0000
Labels:                 app=java-sample
                        app.kubernetes.io/component=java-sample
                        app.kubernetes.io/instance=java-sample
                        app.kubernetes.io/name=java-sample
                        app.kubernetes.io/part-of=sample-app
                        app.openshift.io/runtime=java
                        app.openshift.io/runtime-version=openjdk-17-ubi8
Annotations:            alpha.image.policy.openshift.io/resolve-names: *
                        app.openshift.io/route-disabled: false
                        app.openshift.io/vcs-ref:
                        app.openshift.io/vcs-uri: https://github.com/jboss-openshift/openshift-quickstarts
                        deployment.kubernetes.io/revision: 2
                        image.openshift.io/triggers:
                          [{"from":{"kind":"ImageStreamTag","name":"java-sample:latest","namespace":"suratkarmadhavi456-dev"},"fieldPath":"spec.template.spec.contai...
                        openshift.io/generated-by: OpenShiftWebConsole
Selector:               app=java-sample
Replicas:               1 desired | 1 updated | 1 total | 1 available | 0 unavailable
StrategyType:           RollingUpdate
MinReadySeconds:        0
RollingUpdateStrategy:  25% max unavailable, 25% max surge
```



```
RollingUpdateStrategy:  25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=java-sample
           deployment=java-sample
  Containers:
   java-sample:
    Image:      image-registry.openshift-image-registry.svc:5000/suratkarmadhavi456-dev/java-sample@sha256:ffff7cdb0bbac77416f63bdc626ba2a088d5d7cf7fadd6c09ca9fd855d2f8
0b5
    Ports:          8080/TCP, 8443/TCP
    Host Ports:     0/TCP, 0/TCP
    Environment:    <none>
    Mounts:         <none>
  Volumes:          <none>
Conditions:
  Type           Status  Reason
  ----           ------  ------
  Available      True    MinimumReplicasAvailable
  Progressing    True    NewReplicaSetAvailable
OldReplicaSets:  <none>
NewReplicaSet:   java-sample-6d66595887 (1/1 replicas created)
Events:
  Type    Reason            Age   From                    Message
  ----    ------            ----  ----                    -------
  Normal  ScalingReplicaSet  24m  deployment-controller   Scaled up replica set java-sample-6f7b857f6f to 1
  Normal  ScalingReplicaSet  23m  deployment-controller   Scaled up replica set java-sample-6d66595887 to 1
  Normal  ScalingReplicaSet  23m  deployment-controller   Scaled down replica set java-sample-6f7b857f6f to 0 from 1
bash-4.4 ~ $
```

Terminal 1 ✕   +

```
bash-4.4 ~ $ oc create deployment myd --image=tomcat
deployment.apps/myd created
bash-4.4 ~ $ oc get deploy
NAME                          READY   UP-TO-DATE   AVAILABLE   AGE
java-sample                   1/1     1            1           25m
login-page                    0/1     1            0           8h
myd                           1/1     1            1           13s
net-mini-project-git          0/1     1            0           8h
python-img                    0/1     1            0           7m56s
workspace93747217276742f5     1/1     1            1           20m
bash-4.4 ~ $ oc rsh ^C
bash-4.4 ~ $ oc get po
NAME                                              READY   STATUS            RESTARTS        AGE
java-sample-1-build                               0/1     Completed         0               27m
java-sample-6d66595887-n8b42                      1/1     Running           0               26m
login-page-1-build                                0/1     Completed         0               8h
login-page-2-build                                0/1     Completed         0               8h
login-page-7f955b57bd-15kvh                       0/1     CrashLoopBackOff  109 (14s ago)   8h
myd-bb8d76fb7-smz2z                               1/1     Running           0               79s
net-mini-project-git-1-build                      0/1     Error             0               8h
net-mini-project-git-865b94b6bd-vmgnb             0/1     ImagePullBackOff  0               8h
python-img-78dc5d6cb5-2rzcf                        0/1     CrashLoopBackOff  6 (3m20s ago)   9m2s
workspace93747217276742f5-b85f9f96b-7cvc5         2/2     Running           0               21m
bash-4.4 ~ $
```