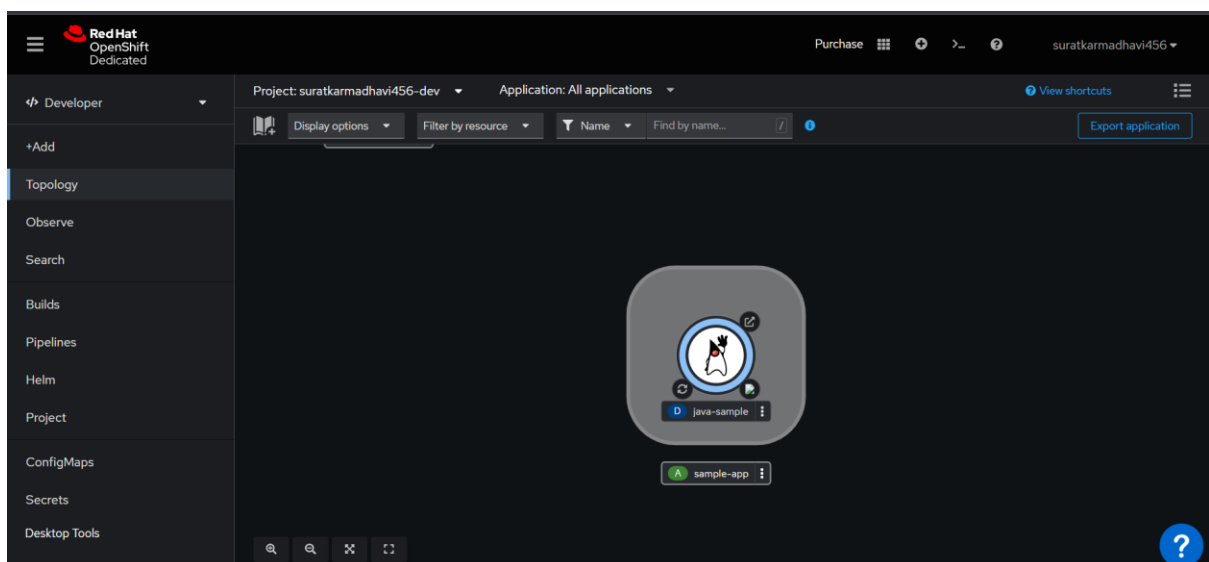
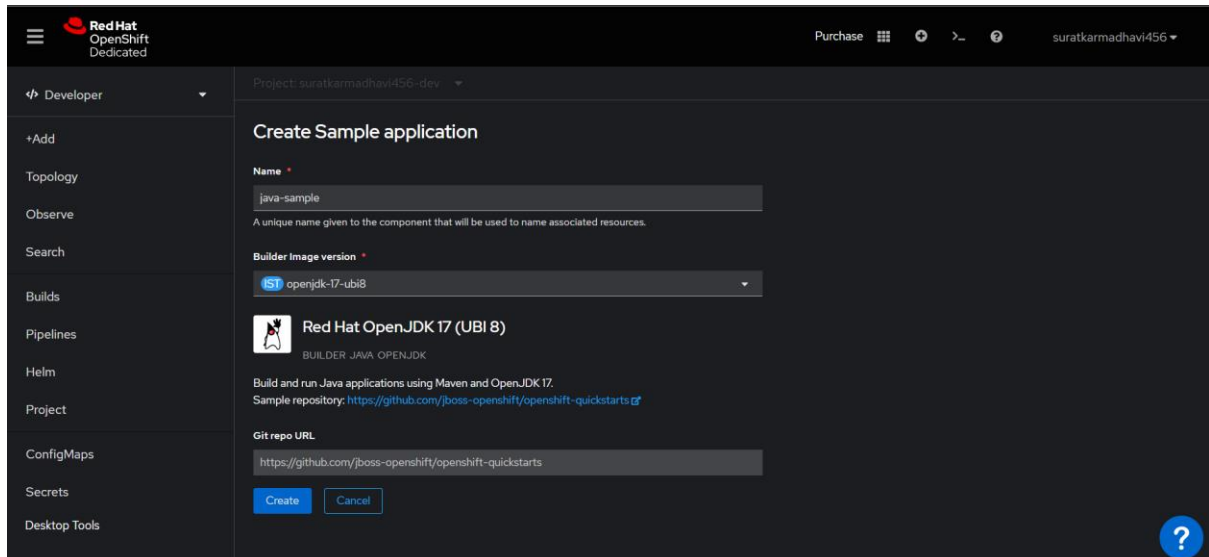
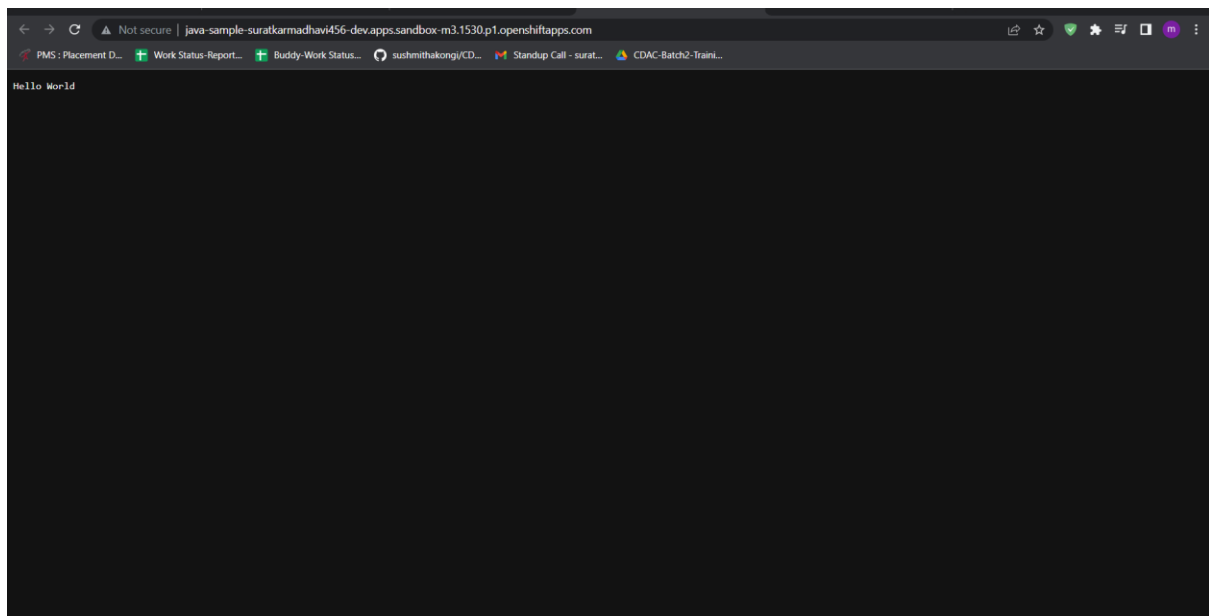
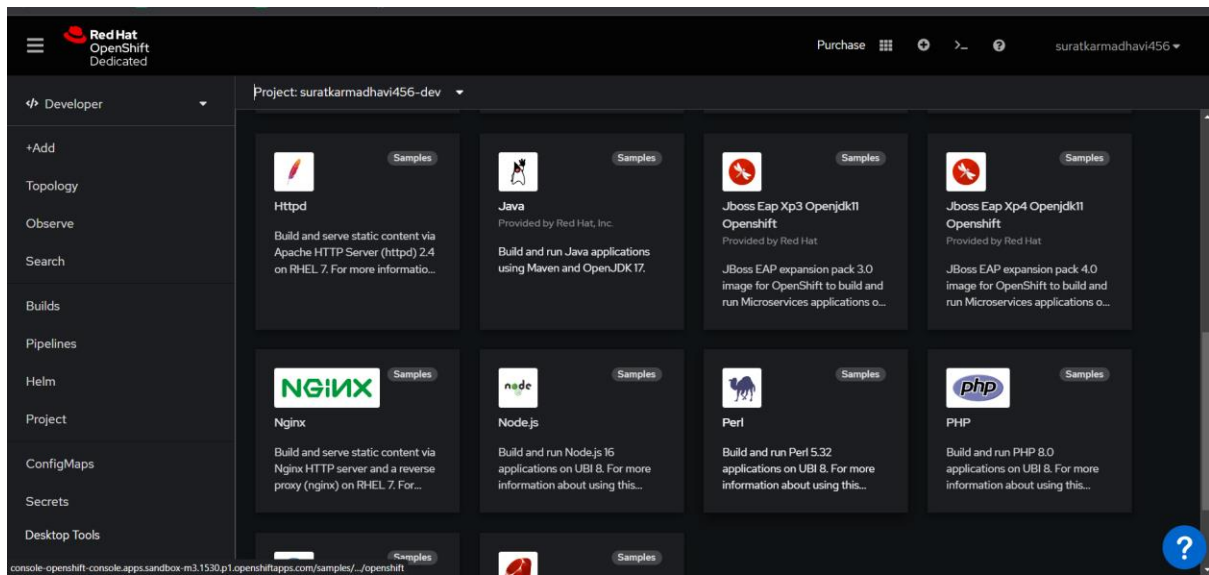


Name: Madhavi Suratkar

Topic : OpenShift

Date : 04-05-2023





OpenShift Command Practice

```
bash-4.4 ~ $ oc get all
```

NAME	READY	STATUS	RESTARTS	AGE
pod/java-sample-1-build	0/1	Completed	0	8m36s
pod/java-sample-6d66595887-n8b42	1/1	Running	0	7m48s
pod/login-page-1-build	0/1	Completed	0	8h
pod/login-page-2-build	0/1	Completed	0	8h
pod/login-page-7f955b57bd-15kvh	0/1	CrashLoopBackOff	105 (2m12s ago)	8h
pod/net-mini-project-git-1-build	0/1	Error	0	8h
pod/net-mini-project-git-865b94b6bd-vmgnb	0/1	ImagePullBackOff	0	8h
pod/workspace93747217276742f5-b85f9f96b-7cvc5	2/2	Running	0	3m29s

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/java-sample	ClusterIP	172.30.21.92	<none>	8080/TCP,8443/TCP	8m35s
service/login-page	ClusterIP	172.30.130.194	<none>	8080/TCP,8443/TCP	8h
service/modelmesh-serving	ClusterIP	None	<none>	8033/TCP,8080/TCP,8443/TCP,2112/TCP	9h
service/net-mini-project-git	ClusterIP	172.30.28.154	<none>	8080/TCP	8h
service/workspace93747217276742f5-service	ClusterIP	172.30.240.224	<none>	4444/TCP	3m30s

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
deployment.apps/java-sample	1/1	1	1	8m35s
deployment.apps/login-page	0/1	1	0	8h
deployment.apps/net-mini-project-git	0/1	1	0	8h
deployment.apps/workspace93747217276742f5	1/1	1	1	3m29s

NAME	DESIRED	CURRENT	READY	AGE
replicaset.apps/java-sample-6d66595887	1	1	1	7m48s
replicaset.apps/java-sample-6f7b857f6f	0	0	0	8m35s

```
buildconfig.build.openshift.io/java-sample      Source  Git  1
buildconfig.build.openshift.io/login-page        Source  Git  2
buildconfig.build.openshift.io/net-mini-project-git Source  Git  1
```

NAME	TYPE	FROM	STATUS	STARTED	DURATION
build.build.openshift.io/login-page-1	Source	Git@ee32a64	Complete	9 hours ago	36s
build.build.openshift.io/login-page-2	Source	Git@ee32a64	Complete	9 hours ago	33s
build.build.openshift.io/net-mini-project-git-1	Source	Git@4511eb6	Failed (GenericBuildFailed)	8 hours ago	40s
build.build.openshift.io/java-sample-1	Source	Git@c50731b	Complete	8 minutes ago	52s

NAME	TAGS	UPDATED	IMAGE REPOSITORY
imagestream.image.openshift.io/java-sample	latest	7 minutes ago	default-route-openshift-image-registry.apps.sandbox-m3.1530.p1.openshiftapps.com/suratkarmadhavi456-dev/java-sample
imagestream.image.openshift.io/login-page	latest	9 hours ago	default-route-openshift-image-registry.apps.sandbox-m3.1530.p1.openshiftapps.com/suratkarmadhavi456-dev/login-page
imagestream.image.openshift.io/net-mini-project-git	latest	9 hours ago	default-route-openshift-image-registry.apps.sandbox-m3.1530.p1.openshiftapps.com/suratkarmadhavi456-dev/net-mini-project-git

NAME	TERMINATION	WILDCARD	HOST/PORT	PATH	SERVICES	PORT
route.route.openshift.io/java-sample	-tcp	None	java-sample-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com		java-sample	8080
route.route.openshift.io/login-page	-tcp	edge/Redirect	login-page-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com		login-page	8080
route.route.openshift.io/net-mini-project-git	-tcp	edge/Redirect	net-mini-project-git-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com		net-mini-project-git	8080

```
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OpenShift command line terminal
Terminal 1 x +

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
```

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OpenShift command line terminal
Terminal 1 x +

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 ~ $
```

```
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OpenShift command line terminal
Terminal 1 x +

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 ~ $
```

```
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OpenShift command line terminal

Terminal 1 x +

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,8080/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 ~ $
```

```
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OpenShift command line terminal

Terminal 1 x +

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,8080/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   W
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   W
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 ~ $
```

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OpenShift command line terminal
Terminal 1 x +

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
           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
Strategy:  RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
```

```
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OpenShift command line terminal
Terminal 1 x +

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:ffff7cdb0bbac77416f63bdc626ba2a088d5d7c7f7add6c09ca9fd855d2f80b5
      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 ~ $
```

```
Red Hat
OpenShift
Dedicated

Purchase  + > ? suratkarmadhavi456

OpenShift command line terminal

Terminal 1 x +

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 ~ $
```

```
Red Hat
OpenShift
Dedicated

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OpenShift command line terminal

Terminal 1 x +

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 ~ $ oc rsh myd-bb8d76fb7-smz2z
$ ls
bin BUILDING.txt conf CONTRIBUTING.md lib LICENSE logs native-jni-lib NOTICE README.md RELEASE-NOTES RUNNING.txt temp webapps webapps.dist work
```