Name: Madhavi Suratkar

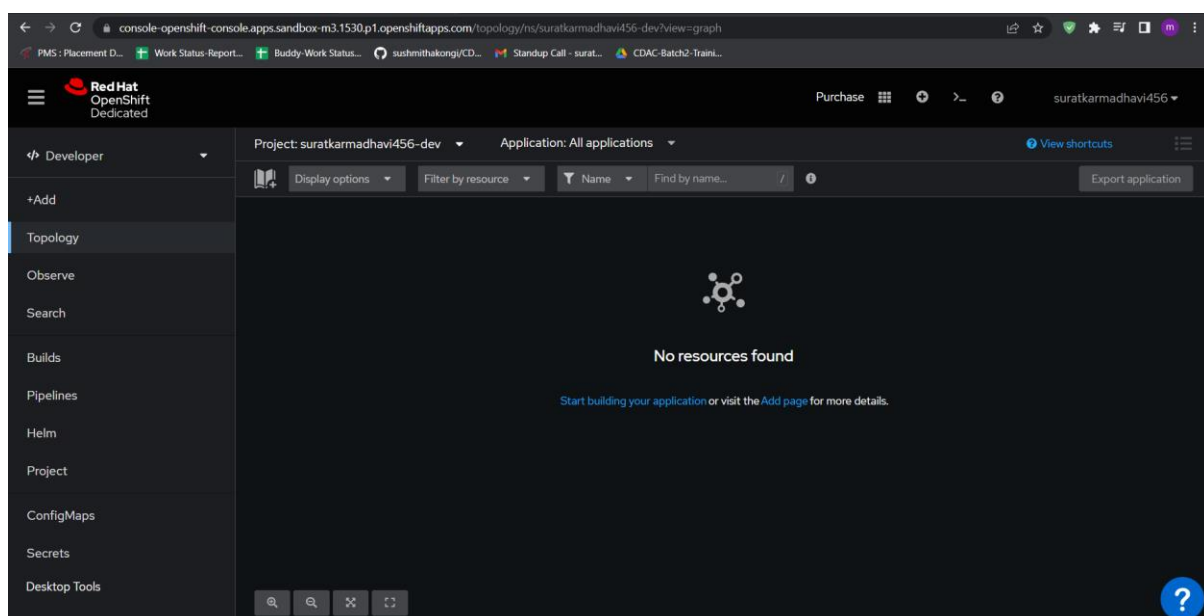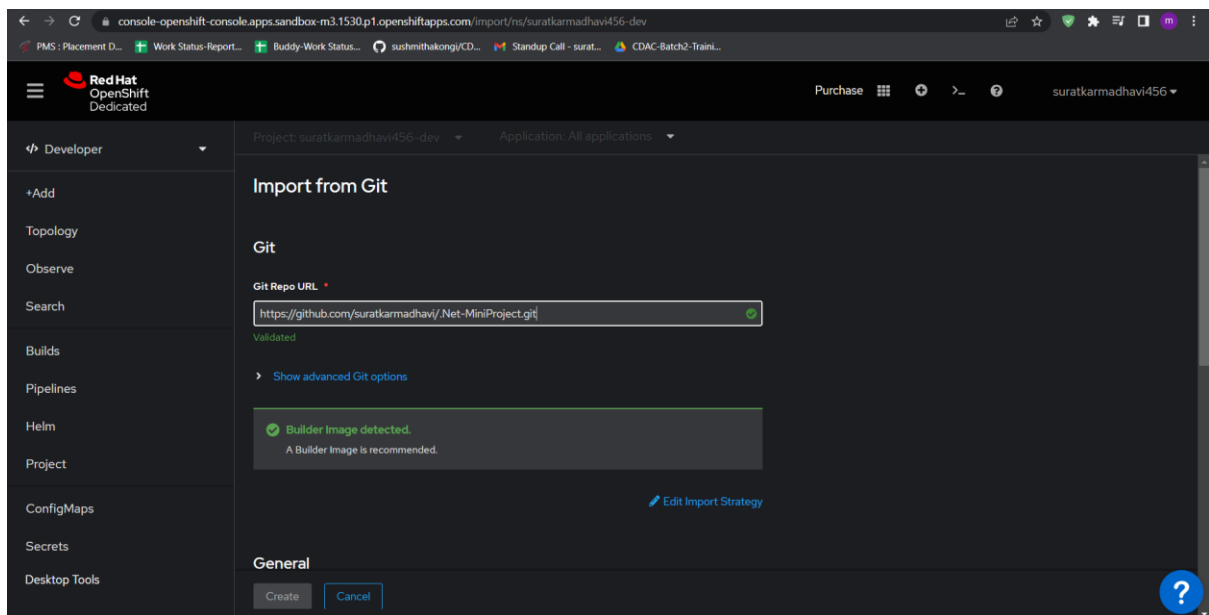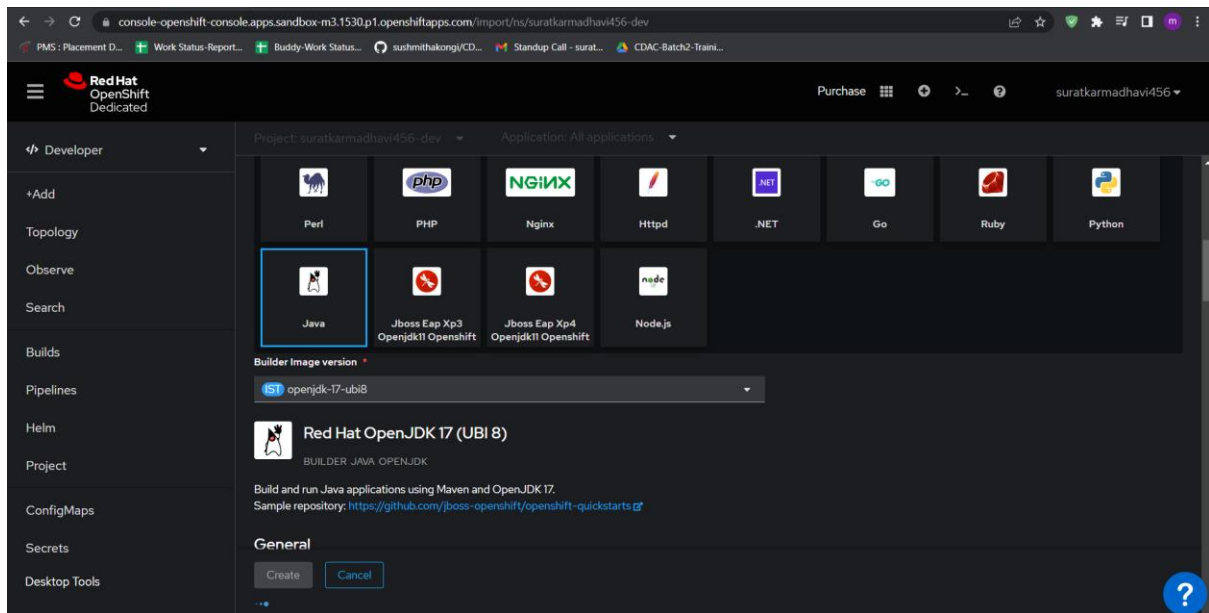**Topic : OpenShift**

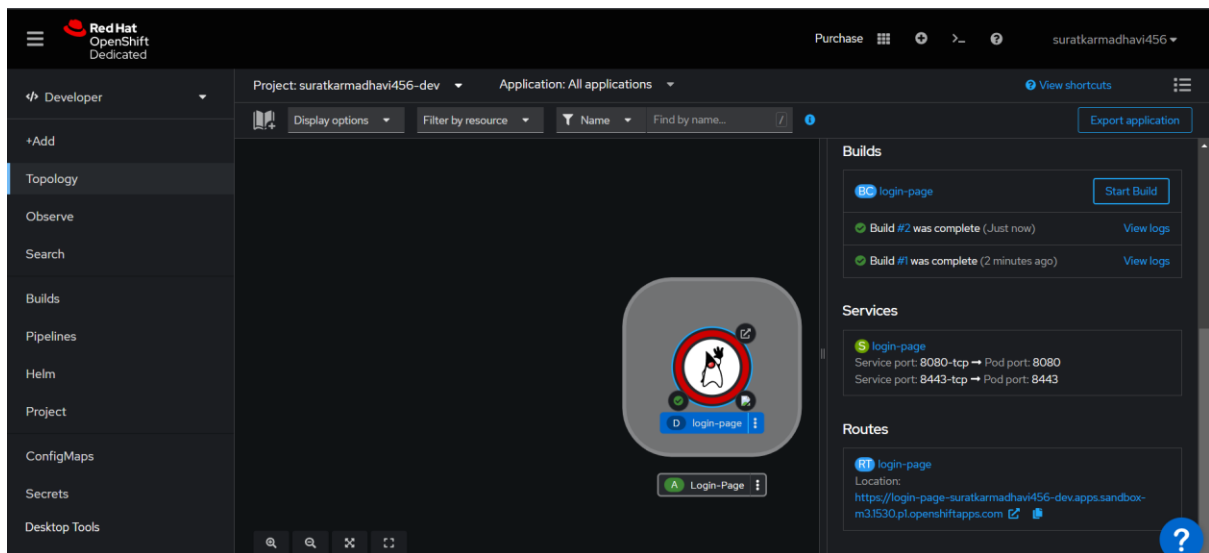**Date : 03-05-2023**

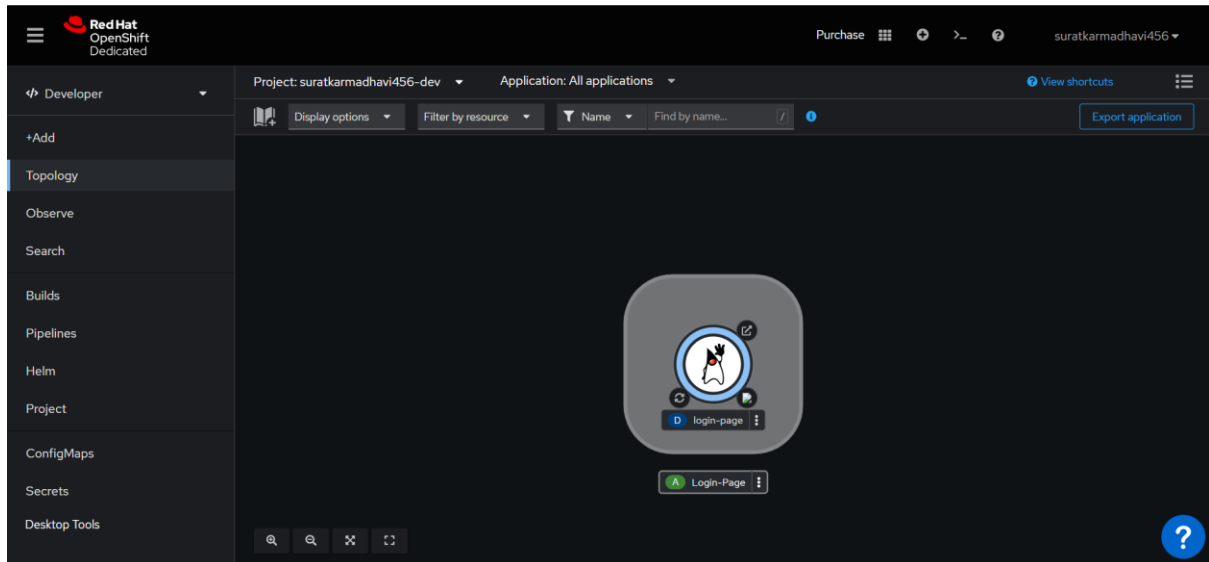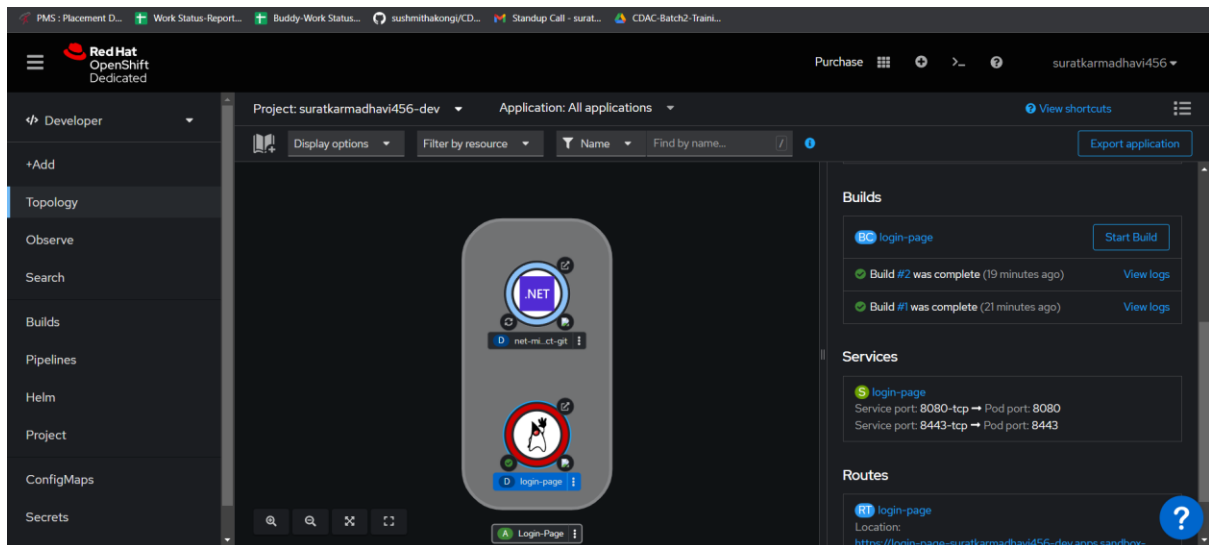## Step1 : Created Account on OpenShift
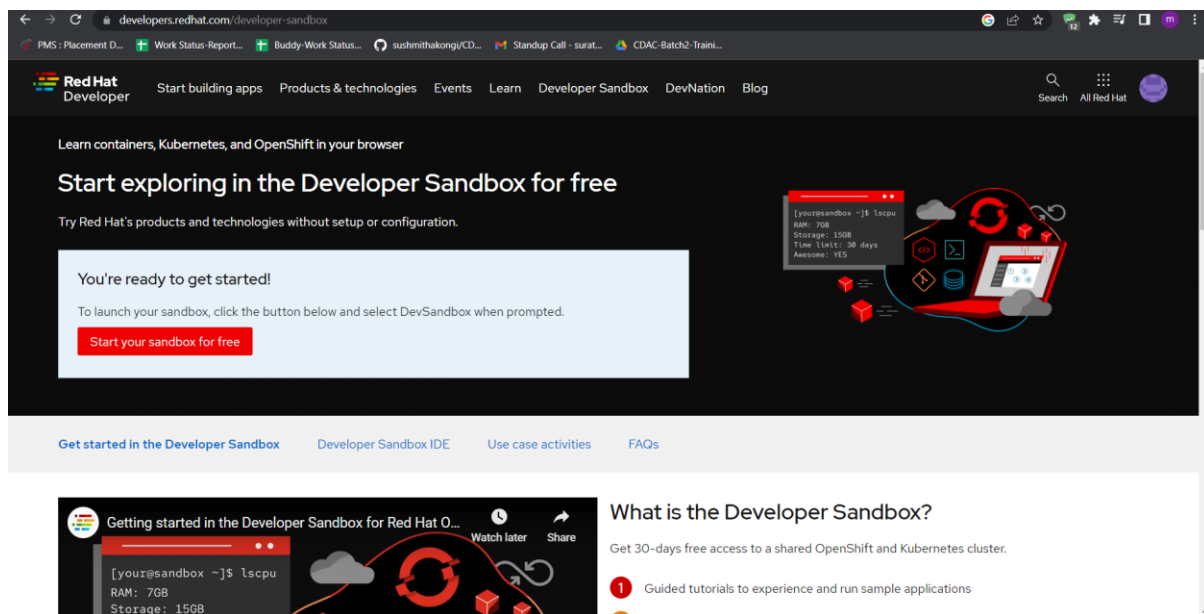
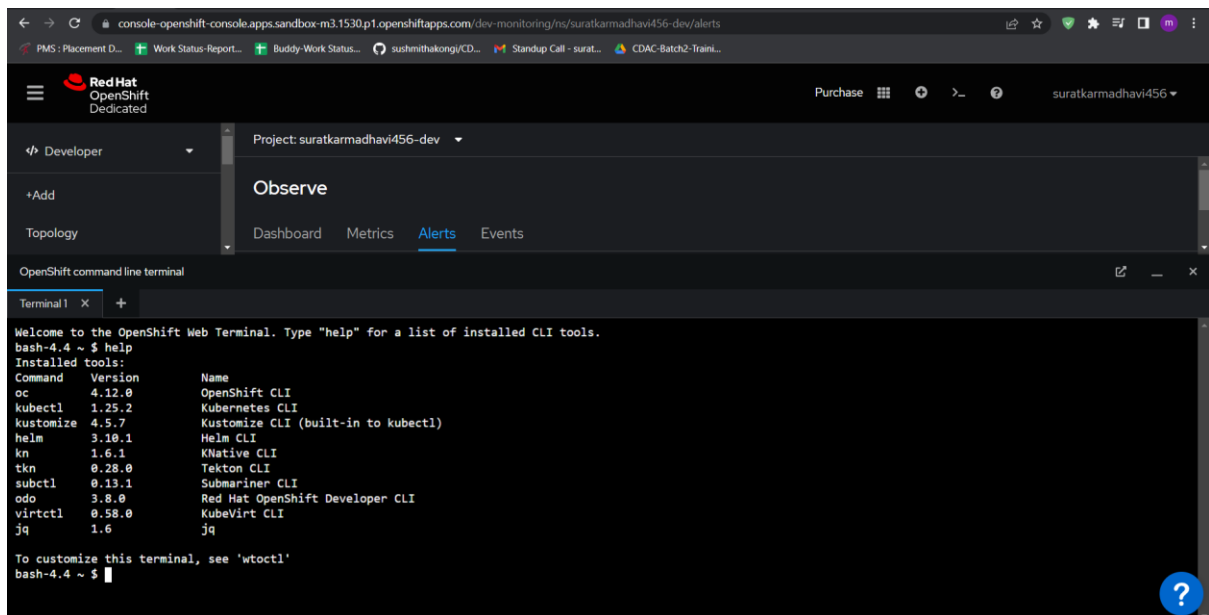## Step2 : Deployment using web U/I

Step 3 : Pod is created

OpenShift Command Practice

OpenShift command line terminal

Terminal 1 × +

```
Welcome to the OpenShift Web Terminal. Type "help" for a list of installed CLI tools.
bash-4.4 ~ $ oc
OpenShift Client

This client helps you develop, build, deploy, and run your applications on any
OpenShift or Kubernetes cluster. It also includes the administrative
commands for managing a cluster under the 'adm' subcommand.

Basic Commands:
  login           Log in to a server
  new-project     Request a new project
  new-app         Create a new application
  status          Show an overview of the current project
  project         Switch to another project
  projects        Display existing projects
  explain         Get documentation for a resource

Build and Deploy Commands:
  rollout         Manage a Kubernetes deployment or OpenShift deployment config
  rollback        Revert part of an application back to a previous deployment
  new-build       Create a new build configuration
  start-build     Start a new build
  cancel-build    Cancel running, pending, or new builds
  import-image    Import images from a container image registry
  tag             Tag existing images into image streams

Application Management Commands:
  create          Create a resource from a file or from stdin
  apply           Apply a configuration to a resource by file name or stdin
  get             Display one or many resources
  describe        Show details of a specific resource or group of resources
```

OpenShift command line terminal

Terminal 1 × +

```
Use "oc <command> --help" for more information about a given command.
Use "oc options" for a list of global command-line options (applies to all commands).
bash-4.4 ~ $ oc get all
NAME                                                  READY   STATUS            RESTARTS        AGE
pod/login-page-1-build                                0/1     Completed         0               65m
pod/login-page-2-build                                0/1     Completed         0               63m
pod/login-page-7f955b57bd-15kvh                       0/1     CrashLoopBackOff  16 (5m5s ago)   62m
pod/net-mini-project-git-1-build                      0/1     Error             0               43m
pod/net-mini-project-git-865b94b6bd-vmgnb             0/1     ImagePullBackOff  0               43m
pod/workspace2f71cc713c0b4798-f578cf9f8-nl4lf         2/2     Running           0               9m23s


NAME                                             TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)                                   AGE
service/login-page                               ClusterIP   172.30.130.194  <none>        8080/TCP,8443/TCP                         65m
service/modelmesh-serving                        ClusterIP   None            <none>        8033/TCP,8008/TCP,8443/TCP,2112/TCP       97m
service/net-mini-project-git                     ClusterIP   172.30.28.154   <none>        8080/TCP                                  43m
service/workspace2f71cc713c0b4798-service        ClusterIP   172.30.44.187   <none>        4444/TCP                                  9m23s


NAME                                              READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/login-page                        0/1     1            0           65m
deployment.apps/net-mini-project-git              0/1     1            0           43m
deployment.apps/workspace2f71cc713c0b4798         1/1     1            1           9m23s


NAME                                                        DESIRED   CURRENT   READY   AGE
replicaset.apps/login-page-5df86cb86f                       0         0         0       64m
replicaset.apps/login-page-7f955b57bd                       1         1         0       62m
replicaset.apps/login-page-85f6bffdbf                       0         0         0       65m
replicaset.apps/net-mini-project-git-865b94b6bd             1         1         0       43m
replicaset.apps/workspace2f71cc713c0b4798-f578cf9f8         1         1         1       9m23s


NAME                                                        TYPE   FROM   LATEST
```

OpenShift command line terminal

Terminal 1 × +

```
NAME                                                        DESIRED   CURRENT   READY   AGE
replicaset.apps/login-page-5df86cb86f                       0         0         0       64m
replicaset.apps/login-page-7f955b57bd                       1         1         0       62m
replicaset.apps/login-page-85f6bffdbf                       0         0         0       65m
replicaset.apps/net-mini-project-git-865b94b6bd             1         1         0       43m
replicaset.apps/workspace2f71cc713c0b4798-f578cf9f8         1         1         1       9m23s


NAME                                                  TYPE     FROM   LATEST
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                   About an hour ago  36s
build.build.openshift.io/login-page-2             Source   Git@ee32a64 Complete                   About an hour ago  33s
build.build.openshift.io/net-mini-project-git-1   Source   Git@4511eb6 Failed (GenericBuildFailed) 43 minutes ago    40s


NAME                                                            IMAGE REPOSITORY
        TAGS      UPDATED
imagestream.image.openshift.io/login-page                       default-route-openshift-image-registry.apps.sandbox-m3.1530.p1.openshiftapps.com/suratkarmadhavi456-dev/login-page
        latest    About an hour ago
imagestream.image.openshift.io/net-mini-project-git             default-route-openshift-image-registry.apps.sandbox-m3.1530.p1.openshiftapps.com/suratkarmadhavi456-dev/net-mini-pro
ject-git


NAME                                            HOST/PORT                                                                                     PATH   SERVICES               PORT
      TERMINATION       WILDCARD
route.route.openshift.io/login-page             login-page-suratkarmadhavi456-dev.apps.sandbox-m3.1530.p1.openshiftapps.com                          login-page             8080
-tcp   edge/Redirect    None
route.route.openshift.io/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    None
bash-4.4 ~ $
```

OpenShift command line terminal

Terminal 1 ✕ ＋

```
bash-4.4 ~ $ oc get po -w
NAME                                          READY   STATUS             RESTARTS       AGE
login-page-1-build                            0/1     Completed          0              66m
login-page-2-build                            0/1     Completed          0              64m
login-page-7f955b57bd-l5kvh                   0/1     CrashLoopBackOff   17 (91s ago)   63m
net-mini-project-git-1-build                  0/1     Error              0              45m
net-mini-project-git-865b94b6bd-vmgnb         0/1     ImagePullBackOff   0              45m
workspace2f71cc713c0b4798-f578cf9f8-nl4lf     2/2     Running            0              10m
```

OpenShift command line terminal

Terminal 1 ✕ ＋

```
bash-4.4 ~ $ oc get pod
NAME                                          READY   STATUS             RESTARTS       AGE
login-page-1-build                            0/1     Completed          0              67m
login-page-2-build                            0/1     Completed          0              65m
login-page-7f955b57bd-l5kvh                   0/1     CrashLoopBackOff   17 (2m5s ago)  64m
net-mini-project-git-1-build                  0/1     Error              0              46m
net-mini-project-git-865b94b6bd-vmgnb         0/1     ImagePullBackOff   0              46m
workspace2f71cc713c0b4798-f578cf9f8-nl4lf     2/2     Running            0              11m
bash-4.4 ~ $
```