# **OpenShift Commands Cheat Sheet**

### #login with admin user

oc login https://<master-server>:8443 -u admin -p redhat

### #login as developer user

oc login https://<master-server>:8443 -u developer -p

#### #Logged in username

oc whoami

# #Create a new app from a GitHub Repository

oc new-app https://github.com/chetantiwary/example-app

# #New app from a different branch

oc new-app --name=web nginx:1.10~https://github.com/chetantiwaryxxxx#mybranch

#### #Create objects from a file:

oc create -f anyobject.yaml -n project>
Eg. oc create -f service.yaml -n operation

#### **#Delete objects contained in a file:**

oc delete -f anyobject.yaml -n <project>

### #Create or merge objects from file

oc apply -f anyobject.yaml -n project>#Monitor Pod
status
watch oc get pods

# #Gather information of a pod deployment with more details

oc get pods -o wide

#### #do not show inactive Pods

```
oc get pods --show-all=false
```

#### #show all resources

```
oc get all
oc get pods
oc get service
oc get route
oc get secrets
oc get configmap
oc get limitranges
oc get resourcequota
oc get hpa dc/dcname
oc get pv
oc get pvc
oc get nodes
oc get ingress
oc get networkpolicy
```

# **#Get Openshift Console Address**

```
oc whoami --show-console
```

#### #Copy a local folder to app Pod under the folder /opt/jboss

```
oc cp ./file app:/opt/jboss
```

### #Create a ConfigMap from file

```
oc create configmap my-config --from-
file=config.properties
oc create secret generic my-secret --from-file=secret.key
```

## #Create a ConfigMap/Secret from literals

```
oc create configmap my-config --from-literal=foo=bar --
from-literal=app=blu
oc create secret generic my-secret --from-
literal=secret.key=value
```

### **#Set a ConfigMap/Secret in a deployment**

```
oc set env deployment/my-deployment --from configmap/my-
config

oc set env deployment/my-deployment --from secret/my-
secret
```

### # Update deployment green with a new environment variable

```
oc set env dc/green STORAGE DIR=/local
```

#### # List the environment variables defined on all pods

```
oc set env pods --all --list
```

#### # Import environment from a secret

```
oc set env --from=secret/mysecret dc/myapp#Get Nodes list oc get nodes
```

### **#Check on which Node your Pods are running**

```
oc get pods -o wide
```

### #List all pods which are running on a Node

```
oc adm manage-node node1.fqdn --list-pods
```

#### #Add a label to a Node

```
oc label node node1.fqdn label=value
```

#### #Remove a label from a Node

```
oc label node nodel.fqdn label-
```

#### #create a PersistentVolumeClaim

```
oc set volume dc/<dcname> --add --name=shared-storage \
-t pvc --claim-mode=ReadWriteMany --claim-size=1Gi \
--claim-name=shared-storage --claim-class=ocs-
storagecluster-cephfs \
--mount-path=/opt/app-root/src/uploaded \
-n shared-storage
```

#### **#Manual deployment**

```
oc rollout latest <dcname>#Pause automatic deployment rollout
```

oc rollout pause dc <dcname>

### # Resume automatic deployment rollout

oc rollout resume dc <dcname>

#### **#Define resource requests and limits in DeploymentConfig**

oc set resources deployment nginx --limits=cpu=200m,memory=512Mi --requests=cpu=100m,memory=256Mi

#### #Define livenessProve and readinessProve in DeploymentConfig

oc set probe dc/nginx --readiness --get-url=http://:8080/healthz --initial-delay-seconds=10

oc set probe dc/nginx --liveness --get-url=http://:8080/healthz --initial-delay-seconds=10

#### #Scale the number of Pods to 5

oc scale dc/nginx --replicas=5

#### **#Define Horizontal Pod Autoscaler (hpa)**

oc autoscale dc nginx --max=4 --min=2 --cpu-percent=60

#### #Create route with default hostname

oc expose service <servicename>

#### #Create Route and expose it through a custom Hostname

oc expose service <servicename> --hostname <hostname>

## #Read the Route Host attribute

oc get route my-route -o jsonpath -template="{.spec.host}"

## **#Common Troubleshooting**

oc delete all -1 key=value

```
oc get all
oc describe pod <pod-name>
oc describe node <node-name>
oc get nodes -L <label>
oc label node <node-name> key=value
oc get endpoints -n <namespace/project>
oc describe node <node-name> | grep -i taint
oc get events
oc get dc <dc-name> -o yaml
oc rollout latest hello
oc logs <hello-2-abcd>
oc expose service hello --
hostname=hello.apps.lab.example.com
oc debug pod <PODNAME>
oc edit service <service-name>
oc edit deployment <deploymentname>
oc edit ingress <ingressname>
oc edit route <routename>
oc adm cordon <nodename> (to mark the node unschedulable)
```