

## Documentation Links

These links are provided for your convenience. Neither the Author nor Pluralsight manage or provide this information and are not responsible for the information available on the referenced sites.

### Policy for Quick Create Cluster

<https://docs.cloud.oracle.com/iaas/Content/ContEng/Concepts/contengpolicyconfig.htm#PolicyPrerequisitesService>

### Install OCI CLI

<https://docs.cloud.oracle.com/iaas/Content/API/SDKDocs/cliinstall.htm>

### Region Codes

<https://docs.cloud.oracle.com/iaas/Content/Registry/Concepts/registryprerequisites.htm#Availab>

### Permissions to Push / Pull from OCIR

<https://docs.cloud.oracle.com/iaas/Content/Registry/Concepts/registrypolicyrepository.htm>

### Pushing Images Using the Docker CLI

<https://docs.cloud.oracle.com/iaas/Content/Registry/Tasks/registrypushingimagesusingthedockercli.htm>

### Pulling Images from Registry during Kubernetes Deployment

<https://docs.cloud.oracle.com/iaas/Content/Registry/Tasks/registrypullingimagesfromocir.htm>

## Additional Resources

### openssl Commands to Generate Keys and Fingerprint

```
#generate private key
```

```
openssl genrsa -out ~/.oci/oci_api_key.pem 2048
```

```
#change permissions
```

```
chmod go-rwx ~/.oci/oci_api_key.pem
```

```
#generate public key
```

```
openssl rsa -pubout -in ~/.oci/oci_api_key.pem -out ~/.oci/oci_api_key_public.pem
```

```
#show fingerprint
```

```
openssl rsa -pubout -outform DER -in ~/.oci/oci_api_key.pem | openssl md5 -c
```

## Demo App

```
#to run the demo app
python app.py
```

```
#hit demo app in a loop using curl
while true; do sleep 0.1; curl http://<IP-of-LoadBalancer-Service>:5000/; echo -e;
done
```

## docker Commands

```
#if run docker build from demo directory with dockerfile
docker build .
```

```
#show images on machine
docker images
```

```
#run image in a container locally
docker run -p 5000:5000 <image-id>
```

```
#login to the registry
docker login <region-code>.ocir.io
```

```
#tag an image with the proper format
docker tag <image-id> <region-code>.ocir.io/<tenancy-namespace>/<repo-name>/<image-
name>:<tag>
```

```
#push an image to a repo in your registry
docker push <region-code>.ocir.io/<tenancy-namespace>/<repo-name>/<image-name>:<tag>
```

## kubectl Commands

```
#create secret
kubectl create secret docker-registry <secret-name> --docker-server=<region-
code>.ocir.io --docker-username='<tenancy-namespace>/<oci-username>' --docker-
password='<oci-auth-token>' --docker-email='<email-address>'
```

```
#create Deployment and LoadBalancer Service
kubectl create -f demo.yml
```

```
#list services
kubectl get services
```

```
#list pods
kubectl get pods
```

```
#edit deployment
kubectl edit deployment.v1.apps/demo-deployment
```