Installing Openshift Local CRC

<https://console.redhat.com/openshift/create/local>

<https://access.redhat.com/documentation/en-us/red_hat_openshift_local/2.30/html/getting_started_guide/installing>

Copy install zip file and Pull Secret to a new OpenShift install folder (move from downloads folder)

**Procedure**

1. Run the crc oc-env command to print the command needed to add the cached oc executable to your $PATH:

$ crc oc-env

1. Run the printed command.
2. Log in as the developer user:

$ oc login -u developer https://api.crc.testing:6443

**Note**

The crc start command prints the password for the developer user. You can also view it by running the crc console --credentials command.

1. You can now use oc to interact with your OpenShift Container Platform cluster. For example, to verify that the OpenShift Container Platform cluster Operators are available, log in as the kubeadmin user and run the following command:
2. $ oc config use-context crc-admin
3. $ oc whoami
4. kubeadmin

$ oc get co

**Python Flask to K8s Microservices**

- https://www.youtube.com/watch?v=SdTzwYmsgoU

Installing Python 3.X

Creating Python Virtual Environments

Installing Python VS Code Extension

Sample Flask Application

Jinja templating for Dynamic Web Pages

Using Pip to Freeze Python Dependencies

Building the docker image using Dockerfile

Writing Docker Compose file

Writing Kubernetes Manifest files for the application

**Deploy to OpenShift.**

Creating Helm Chart

**Create an external route to pod from the browser:**

**oc expose svc/web-service -n pythontest (this works!)**

* oc create route edge --service=<service-name> --hostname=<hostname>
* oc create route edge --service=web-service --hostname=python-webapp -n pythontest

To remove route

oc delete route web-service -n pythontest

For the Boutique Website

**oc expose svc/frontend-external -n boutique-website**

**Create Git Repository**

* **Add Readme**
* **Git Clone to set up local workspace.**

**Push Code to Git**

* **git add -A**
* **git status**
* **git commit -m "Flask Webapp"**
* **git push origin main**
* **git push -f (force)**