What is a CodeReadyContainer ??

In simple words, it’s an OpenShift Cluster on your Linux machine

CodeReady Containers is the quickest way to get started building OpenShift clusters. It is designed to run on a local computer to simplify setup and testing and emulate the cloud development environment locally with all of the tools needed to develop container-based applications.

Let’s start with setting up the cluster.

1. You need to have an account at https://cloud.redhat.com/
2. If you don't have an account you need to create it.

Hardware requirements

- 4 physical CPU cores
- 9 GB of free memory
- 35 GB of storage space

- Ubuntu 18.04 LTS or later and Debian 10 or later are not supported and may require manual set up of the host machine.

Required software packages for Linux

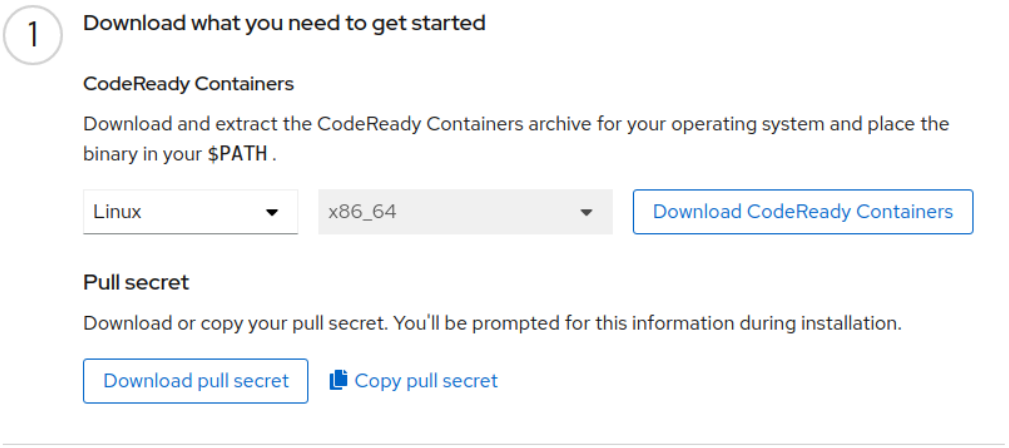
```
sudo apt install qemu-kvm libvirt-daemon libvirt-daemon-system network-manager
```

3. Keep this link open in a new tab

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

4. On the above link, you can see the download option called

“Download CodeReadyContainer”



5. Let's Extract the contents of the archive.

```
$ tar xvf crc-linux-amd64.tar.xz
```

6. Let's Create the ***~/bin*** directory if it does not exist and copy the `crc` executable to it.

```
$ mkdir -p ~/bin
```

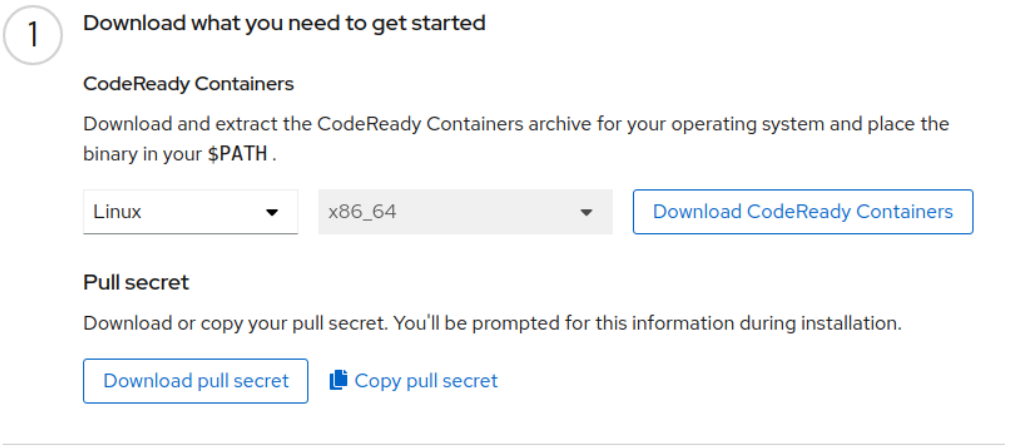
```
$ cp ~/Downloads/crc-linux-*-amd64/crc ~/bin
```

7. Now, Add the ***~/bin*** directory to your `$PATH`:

```
$ export PATH=$PATH:$HOME/bin
```

```
$ echo 'export PATH=$PATH:$HOME/bin' >> ~/.bashrc
```

8. Now, the next step is to copy the **secret and store** it in a file so you will need it while setting up the OpenShift Cluster.



Note: You can see the pull secret above in the image, similarly you'll see it on your console.

9. Now run the below command to start the **CRC** setup.

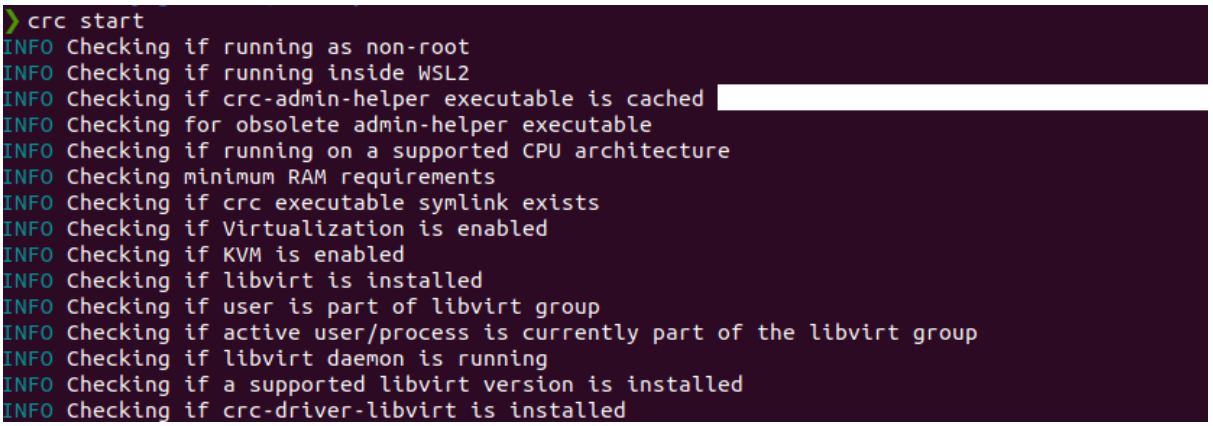
```
$ crc setup
```

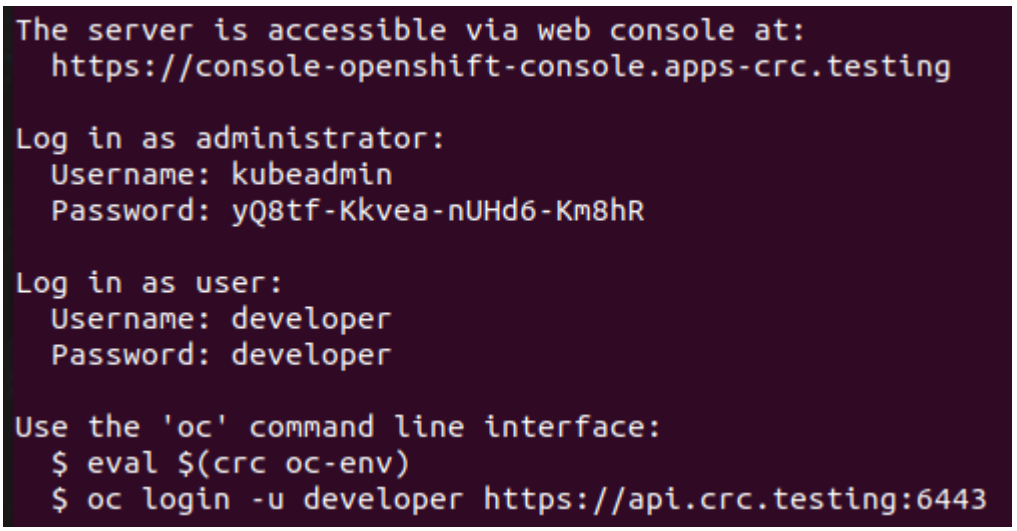
Note: After running this command there will be lots of things going but at one step you'll be asked to paste the **pull secret**. So paste the pull secret which we stored above step no 8.

10. After the CRC setup is done successfully, you can start the cluster using.

```
$ crc start
```

You will see an output like this





11. To use the **oc** command

```
$ eval $(crc oc-env)
```

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

12. To get the console credentials.

```
$ crc console --credentials
```

```
To login as a regular user, run 'oc login -u developer -p
developer https://api.crc.testing:6443'.
```

```
To login as an admin, run 'oc login -u kubeadmin -p
yQ8tf-Kkvea-nUHd6-Km8hR https://api.crc.testing:6443'
```

13. You can log in through the console now.