



## OpenShift Cluster

You will use your own small OpenShift cluster during this workshop. However, the procedures we will follow are analogous to a Kubernetes cluster. Remember that the minimum requirements for OpenShift / Kubernetes are fully documented in the databand deployment guide

### 1. TechZone

One of the best benefits for becoming an IBM Business Partner is the access to the IBM Techzone. Once you get the entitlement, you have access to a vast variety of resources with just your IBMId. If you are an IBMer, you have already been granted with the TechZone access by default.

In this workshop, we will provision one Openshift cluster from the IBM Techzone and, among the several options and variations you can find, it is recommended to choose a basic cluster. Log in to the Techzone and search for an offering following the indications of this picture:

The screenshot shows the IBM Technology Zone Search interface. At the top, there's a header with the IBM logo and 'IBM Technology Zone'. Below it, a large 'Search' banner with the text 'Your one stop shop to submit and explore the wide range of innovative resources created by the IBM team. Login now to submit your resources and vote for your favorite ones'. A red arrow points to the search bar with the text 'click here'. Below the banner, a search bar contains the text 'ROKS Classic'. A red arrow points to this search bar with the text 'search ROKS Classic'. Below the search bar, there are two search results. The first result is titled 'IBM RedHat Openshift Kubernetes Service (ROKS Classic)' and is updated Feb 10, 2023. It lists details about the managed OpenShift cluster (ROKS) in IBM Cloud, including OCP version (4.6 - 4.10), cluster size options (small, medium, large), worker node flavor (vCPU x Memory), and NFS storage options. A red arrow points to this result with the text 'pick this'. The second result is titled 'IBM Red Hat OpenShift Kubernetes Service (ROKS Classic)...' and is updated Jan 27, 2023. It describes a ROKS Cluster with NFS Storage, suitable for the MLOps workshop, and lists associated Cloud Paks (Data, Governance, Quality, MLOps) and Trustworthy AI. Both results have a 'Reserve this' button at the bottom.

You will see a few options to size the cluster and the smallest configuration will be enough to run everything on this workshop. However, you may want to choose a bigger one - it will work as well.

Please do not forget to add some NFS Storage for our own files. A small size of 500GB or 1 TB would be more than enough:

Preferred Geography

EUROPE - eu-de region - any datacenter

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End date and time

Select a date

04/06/2023

Select a time

3:53 PM

Available for up to 7 days (168 hours)

Worker Node Count (required)

3

Worker Node Flavor (required)

b3c.4x16 (4 vCPU x 16GB - 100GB Secondary Storage)

NFS Size (required)

1 TB

OpenShift Version (required)

4.10

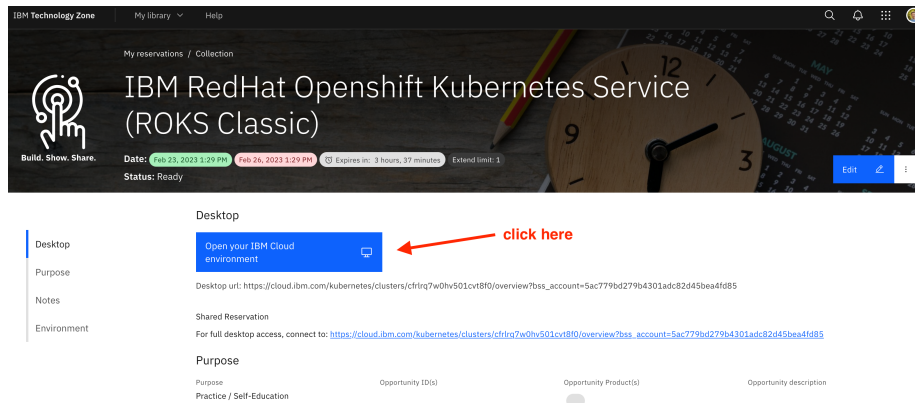
**default**

**default**

**very important!!**

**default**

Wait for an email that notifies you that the system is ready. It can take some minutes but also a few hours, depending on the current workload in the Techzone or in the Cloud. Once you get that email, just click on the link that will lead you to the OpenShift console or, alternatively, you may go to the TechZone, display your reservations and select the system which has been just provisioned. In order to get access to the OpenShift console, just click on the blue button:

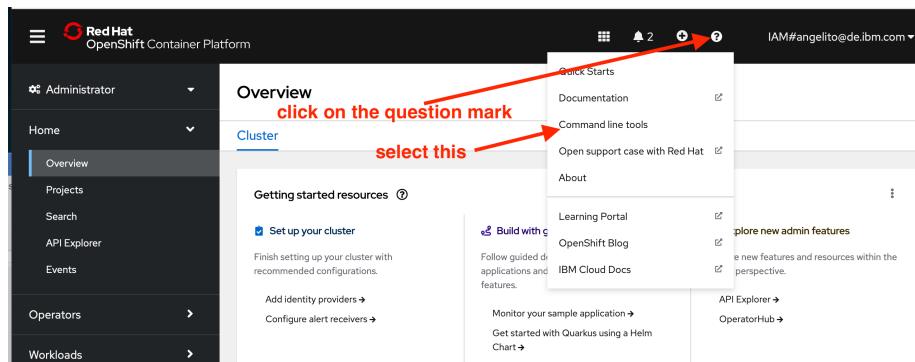


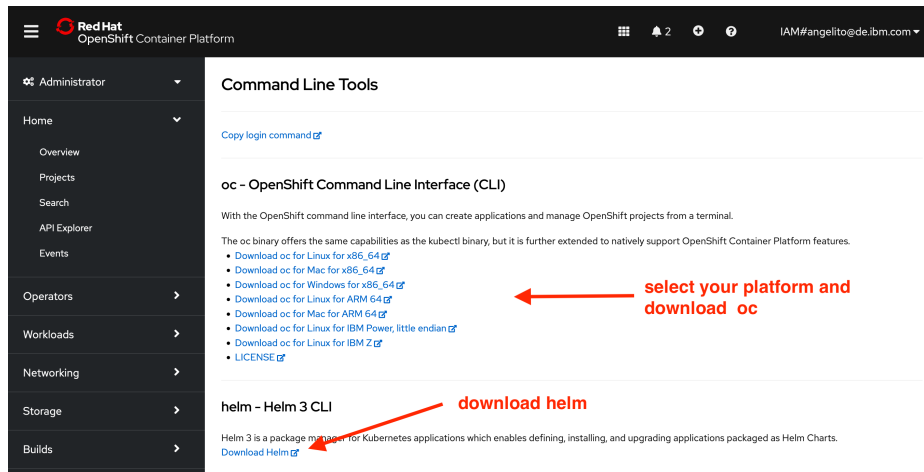
## 2. Other Options

RedHat has other possibilities to access an OpenShift cluster in a trial mode. You can explore your options here

## 3. Download oc and helm

As mentioned in the previous section `oc` and `helm` can be easily downloaded from the OpenShift console. Just open the OpenShift console and proceed as indicated in the following pictures





At the time of writing these instructions, these were the direct links used during the workshop:

- [https://mirror.openshift.com/pub/openshift-v4/x86\\_64/clients/ocp/stable-4.10/](https://mirror.openshift.com/pub/openshift-v4/x86_64/clients/ocp/stable-4.10/)
- [https://mirror.openshift.com/pub/openshift-v4/x86\\_64/clients/helm/latest/](https://mirror.openshift.com/pub/openshift-v4/x86_64/clients/helm/latest/)

You can try and download the executables for your system from those links but remember that they may have changed now.

Run the following commands to verify that **oc** and **helm** are accesible:

```
oc version
```

```
# Display the version of helm
```

```
helm version
```

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Next Section: Databand deployment. Previous Section: Prerequisites

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