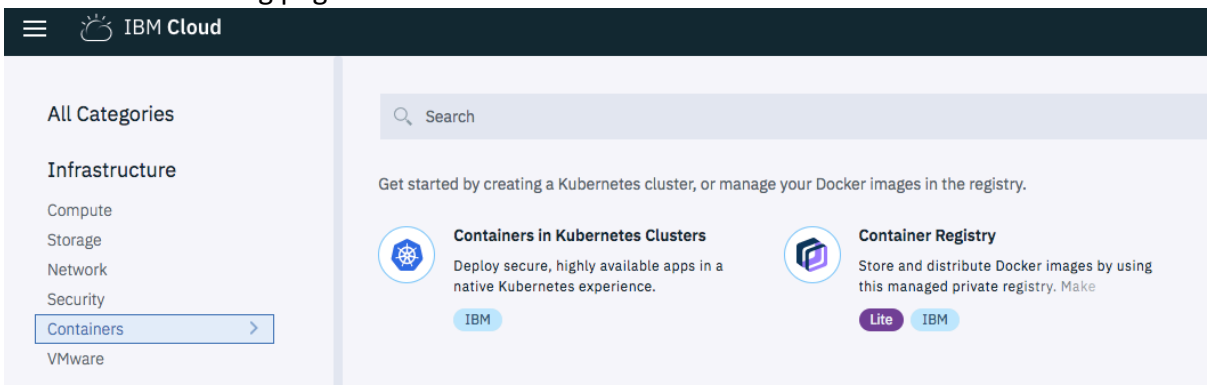
Kubernetes Cluster and Driverless AI:

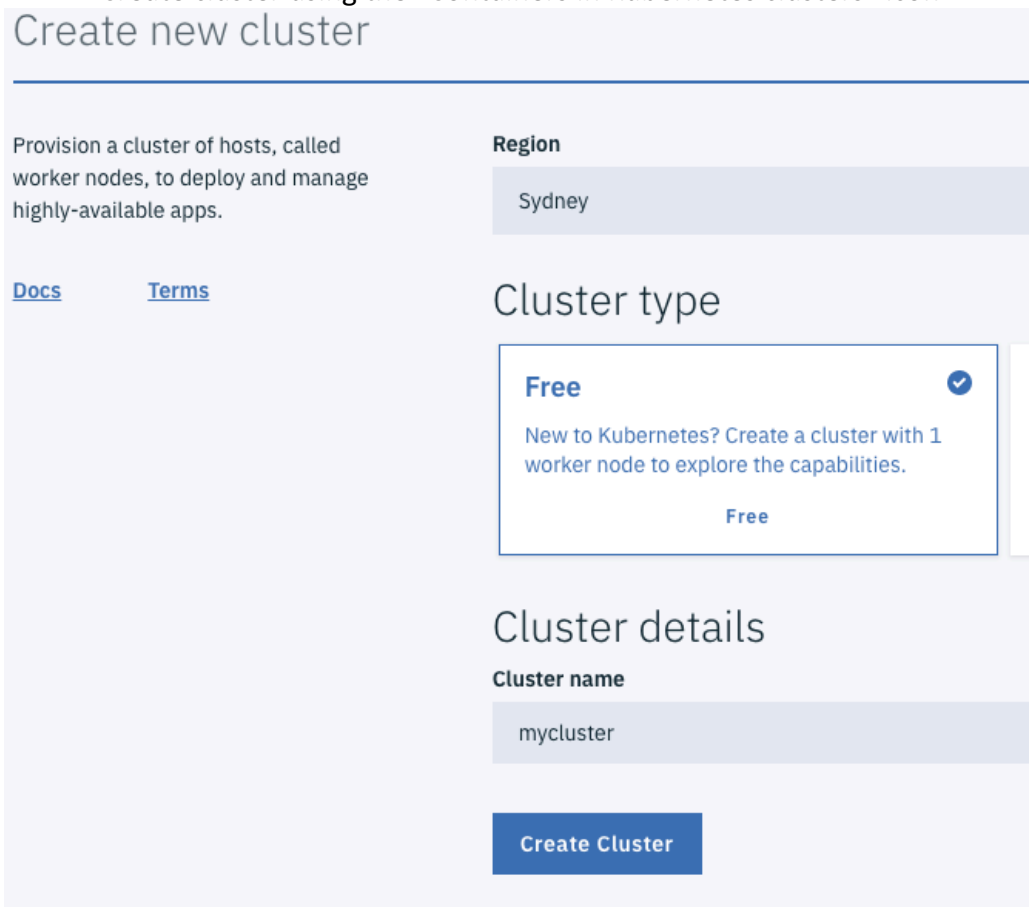
Step 3: Kubernetes Cluster creation:

- Login to IBM cloud using your IBM ID (signup for new account, if required)
  - https://bluemix.net

- Go to catalog page and select “Containers”

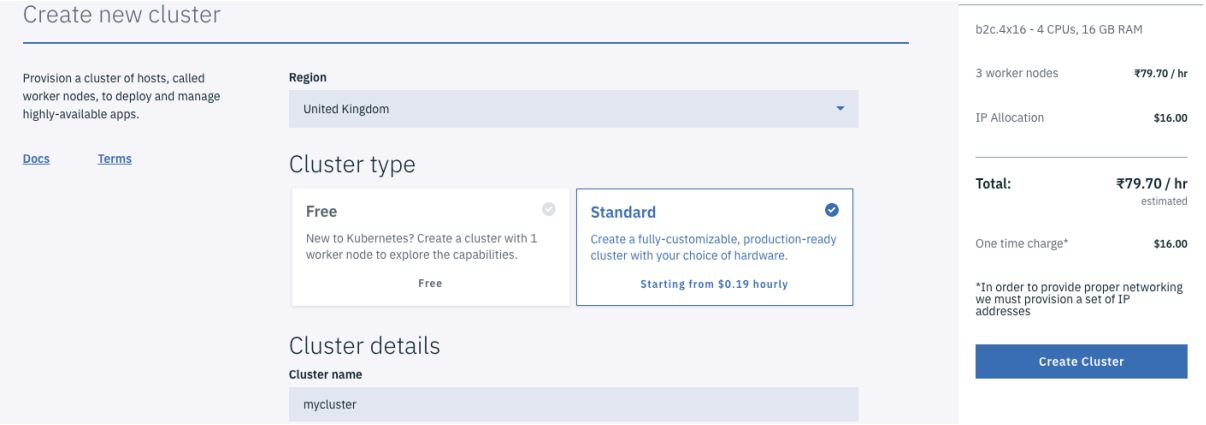


- Create cluster using the “Containers in Kubernetes clusters” icon



Note: It takes around 20mins to get deployed. 2 CPU and 4GB RAM is provisioned

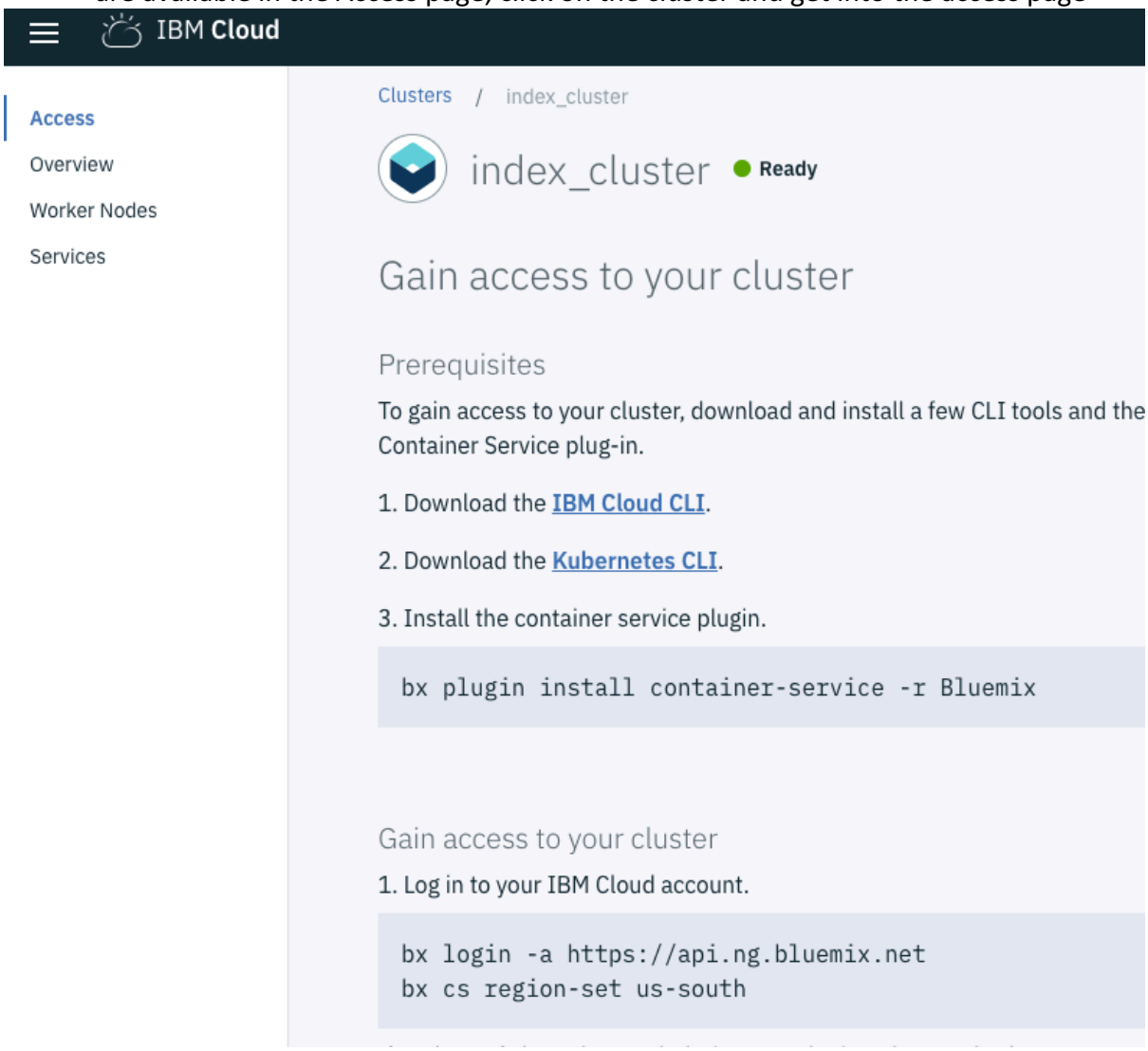
Note: If you need more than the default , 2CPU and 4GB RAM , then deploy the “standard” cluster.



Note: Cluster deployment may request for account upgrade

Step 4: Local environment setup to access cluster:

- You need to have IBM Cloud CLI and Kubernetes CLI to access the clusterInstructions are available in the Access page, click on the cluster and get into the access page



- **Verify the cluster using the IBM cloud command:**

```
Rajeshs-MacBook-Air:~ rajeshjeyapaul$ bx cs clusters
OK
Name         ID                                 State   Created          Workers   Location   Version
mycluster    31ad1e21d25742c7af98f70fxxxxyyxy   normal  29 minutes ago   1         lon02      1.9.3_1502
```

- **Verify the cluster deployment using kubernetes CLI command**

→ kubectl describe nodes

```
Rajeshs-MacBook-Air:helm rajeshjeyapaul$ kubectl describe nodes
Name:                   10.165.58.241
Role:
Labels:                 arch=amd64
                        beta.kubernetes.io/arch=amd64
                        beta.kubernetes.io/os=linux
                        failure-domain.beta.kubernetes.io/region=eu-gb
                        failure-domain.beta.kubernetes.io/zone=lon02
                        ibm-cloud.kubernetes.io/encrypted-docker-data=true
                        ibm-cloud.kubernetes.io/iaas-provider=softlayer
                        ibm-cloud.kubernetes.io/machine-type=b2c.4x16.encrypted
                        kubernetes.io/hostname=10.165.58.241
                        privateVLAN=2279429
                        publicVLAN=2279427
Taints:                 <none>
CreationTimestamp:      Wed, 14 Mar 2018 11:44:12 +0530
Phase:
```

Well, at this stage, your cluster is ready and you are good to have a private registry created to host a container image. Proceed to next step of publishing the local docker image onto cluster