

DEPLOYMENT OF APP IN IBM CLOUD

Deploy in kubernetes cluster

Team ID : PNT2022TMID38222

Team leader : Naveen

Team member : v.deepalakshmi

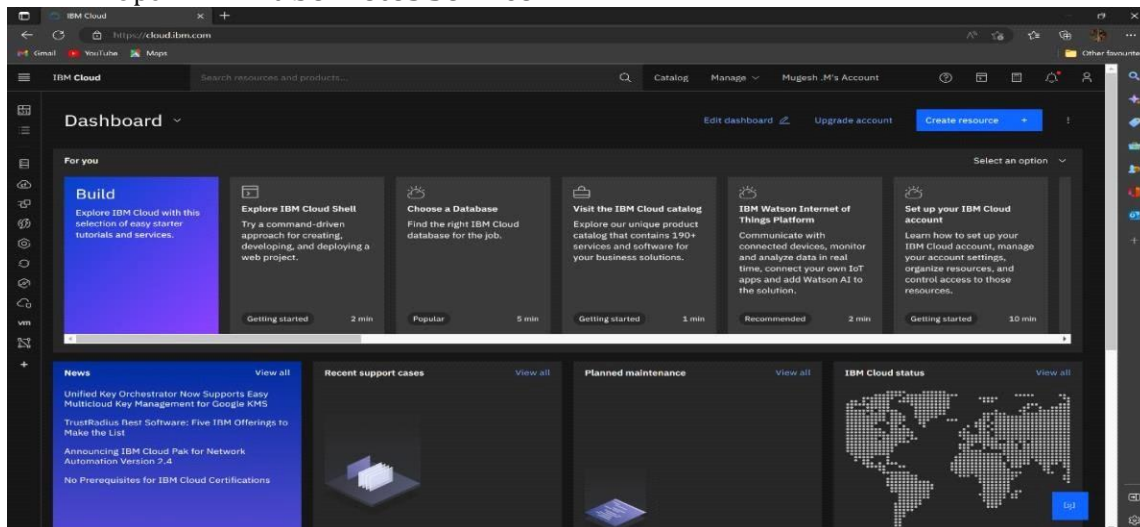
J.Renganayaki

R.esaikalraj

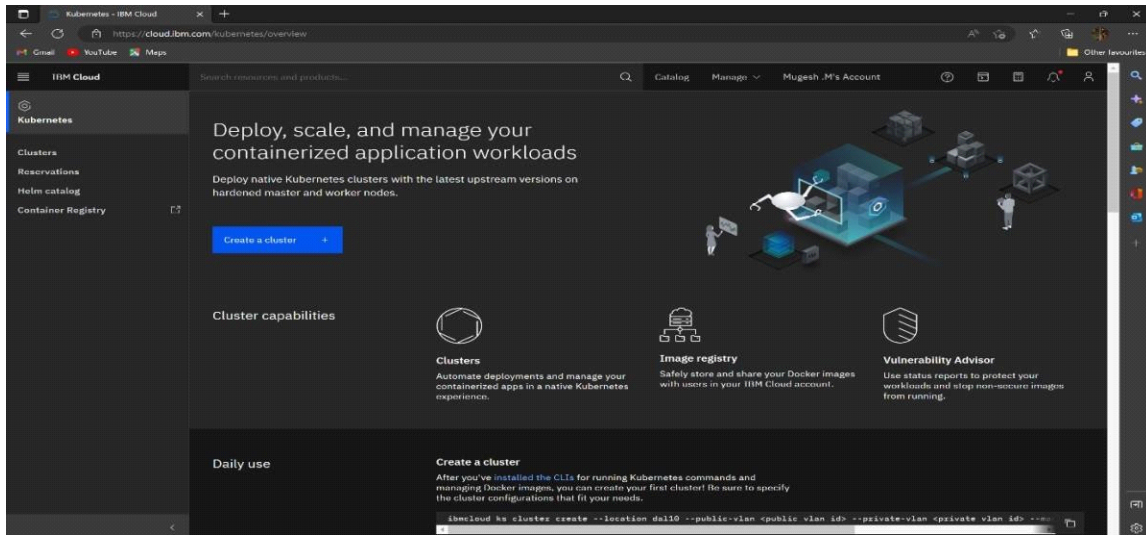
Steps

Create a Kubernetes cluster

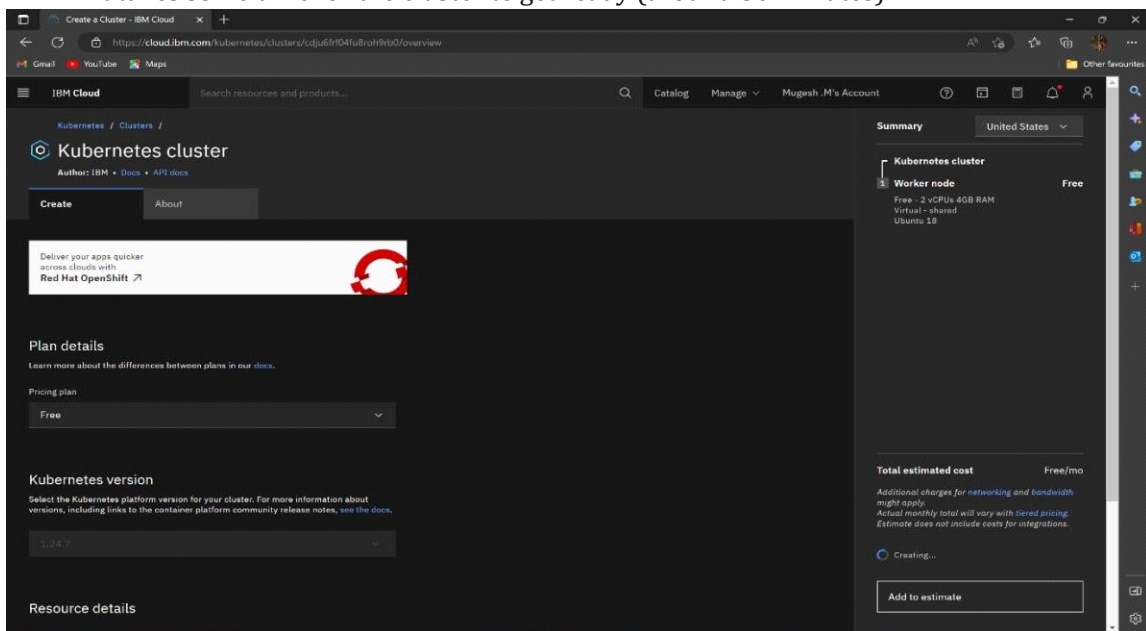
- Sign in to your [IBM HYPERLINK](https://cloud.ibm.com/dashboard/apps/?cm_sp=ibmdev-_-developer-tutorials-_-cloudreg)
"https://cloud.ibm.com/dashboard/apps/?cm_sp=ibmdev-_-developer-tutorials-_-cloudreg" HYPERLINK "https://cloud.ibm.com/dashboard/apps/?cm_sp=ibmdev-_-developer-tutorials-_-cloudreg"Cloud HYPERLINK
"https://cloud.ibm.com/dashboard/apps/?cm_sp=ibmdev-_-developer-tutorials-_-cloudreg" HYPERLINK
"https://cloud.ibm.com/dashboard/apps/?cm_sp=ibmdev-_-developer-tutorials-_-cloudreg"Dashboard HYPERLINK
"https://cloud.ibm.com/dashboard/apps/?cm_sp=ibmdev-_-developer-tutorials-_-cloudreg".
- Open **IBM Kubernetes Service**.



- Click **Create Cluster**.



- Select the **Region** where you want to deploy the cluster, type in a **name** for your cluster, then click **Create Cluster**.
- Select the appropriate cluster type depending on your account.
- It takes some time for the cluster to get ready (around 30 minutes).



- Once the cluster is ready, click on your cluster's name and you will be redirected to a new page with information about your cluster and worker node.

The screenshot shows the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The cluster is in the 'Preparing master, workers...' state and expires in 30 days. The dashboard includes a sidebar with navigation options: Overview, Worker nodes, Worker pools, and DevOps. The main content area displays the cluster status, including a warning that the cluster will be deleted in 30 days. It also shows details such as Cluster ID, Version (1.24.7_1542), Infrastructure (Classic), and Zones (Milan 01). A 'Node health' section indicates 1 total nodes, with 0% Critical, 0% Warning, 0% Normal, and 100% Pending. A 'Help' sidebar on the right provides links to log in, deploy, expose, and add storage to the cluster.

mycluster-free IBM Cloud

Expires in 30 days

Node status: 1 of 1 Pending

Add-on status: 0 of 0 Normal

Master status: Unknown

Ingress status: Pending

Details

Cluster ID: cdjuf6f04fub8h9b0

Version: 1.24.7_1542

Infrastructure: Classic

Zones: Milan 01

Created: 06/11/2022, 22:09

Resource group

Image security enforcement: Enable

Node health

1 total nodes

Critical 0% Warning 0% Normal 0% Pending 100%

Help

- Log in to your cluster
- Deploy your app
- Expose your app
- Add storage to your app
- Connect integrations
- Install add-ons
- Troubleshoot

- Click on the **Worker Nodes** tab to note the cluster's Public IP.

The screenshot shows the IBM Cloud Kubernetes dashboard for the same cluster, but with the 'Worker nodes' tab selected. The dashboard displays a table of worker nodes. The table has columns for Name, Status, Worker pool, Zone, Private IP, Public IP, and Version. There is one worker node listed with ID '0000001d', status 'Provision pending - Preparing to...', worker pool 'default', zone 'Milan 01', and version '1.24.6 1541'. Below the table, there is a section for the worker node details, including ID, Status, Flavor, Private VLAN, and Public VLAN.

mycluster-free IBM Cloud

Expires in 30 days

Worker nodes

Pool: Filter... Search

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000001d	Provision pending - Preparing to...	default	Milan 01			1.24.6 1541

ID: kube-cdjuf6f04fub8h9b0-myclusterfr-default-0000001d

Status: Preparing to provision worker

Flavor: T.oo - 2 vCPUs, 8GB RAM

Private VLAN: 2218181

Public VLAN: 2218179

Items per page: 25 1-1 of 1 item

Help

- Log in to your cluster
- Deploy your app
- Expose your app
- Add storage to your app
- Connect integrations
- Install add-ons
- Troubleshoot