

# DEPLOYMENT OF APP IN IBM CLOUD

## Deploy in kubernetes cluster

Team ID : PNT2022TMID43062

Team leader : A.Lavanya

Team member : S.Nandha Gokul

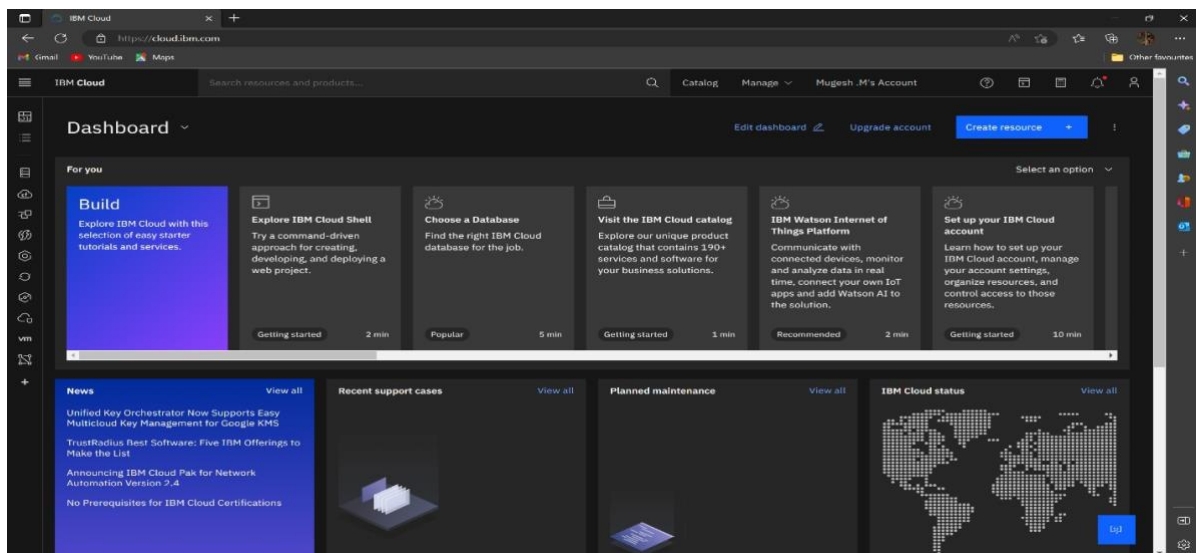
Team member : M.Ramkumar

Team member : S.Pavithra

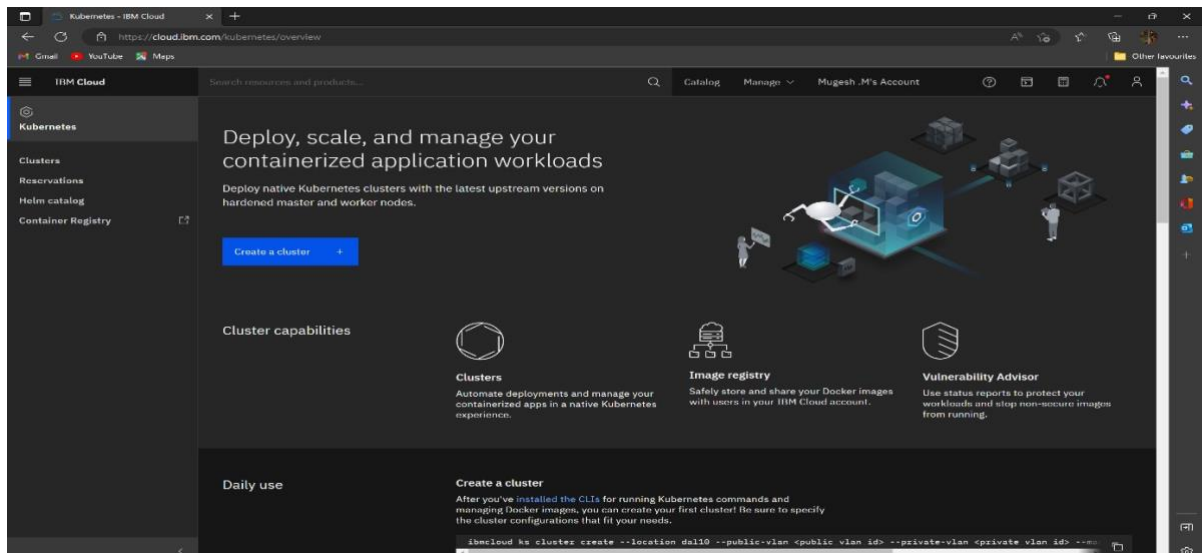
## Steps

Create a Kubernetes cluster

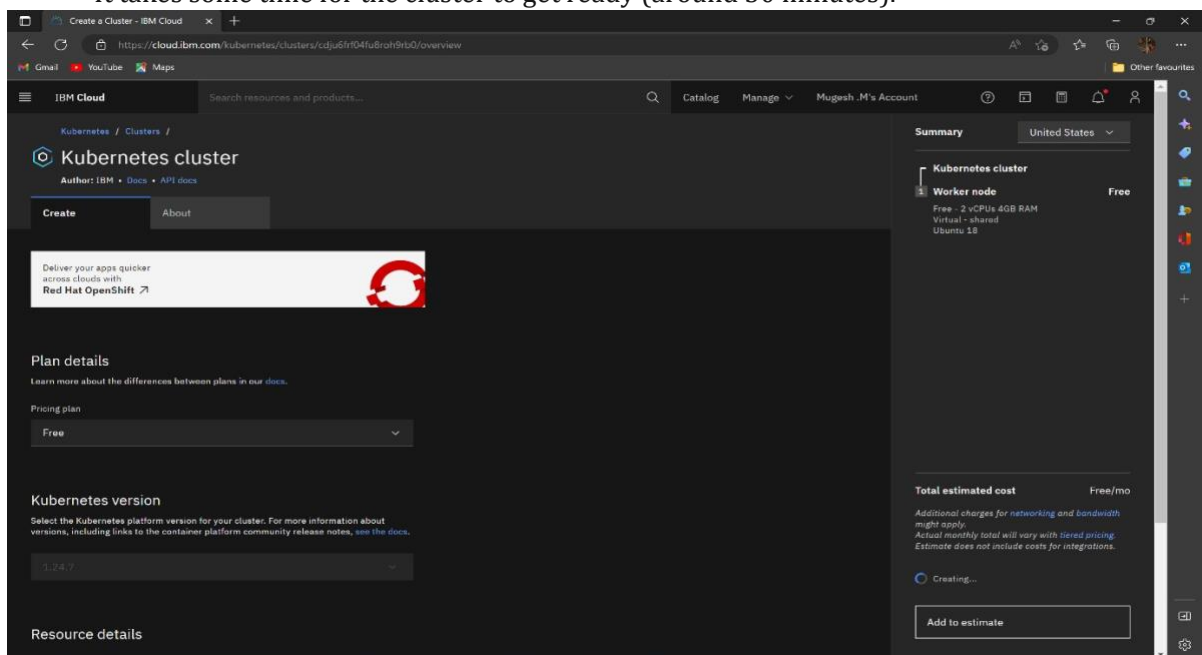
- Sign in to your [IBM Cloud Dashboard](https://cloud.ibm.com).
- Open **IBM Kubernetes Service**.



- 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 free cluster named 'mycluster-free'. The cluster is in the 'Preparing master, workers...' state and expires in 30 days. The dashboard displays the following information:

- Node status:** 1 of 1 Pending
- Add-on status:** 0 of 0 Normal
- Master status:** Unknown
- Ingress status:** Pending
- Details:**
  - Cluster ID: cdjuf6rf04fu8roh9rb0
  - Version: 1.24.7\_1542
  - Infrastructure: Classic
  - Zones: Milan 01
  - Created: 06/11/2022, 22:09
  - Resource group: [empty]
  - Image security enforcement: Enable
- Node health:** 1 total nodes. Critical 0%, Warning 0%, Normal 0%, Pending 100%.

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

The screenshot shows the IBM Cloud Kubernetes dashboard with the 'Worker nodes' tab selected. The dashboard displays a table of worker nodes with the following columns: Name, Status, Worker pool, Zone, Private IP, Public IP, and Version.

| Name      | Status                              | Worker pool | Zone     | Private IP | Public IP | Version     |
|-----------|-------------------------------------|-------------|----------|------------|-----------|-------------|
| 00000001d | Provision pending - Preparing to... | default     | Milan 01 |            |           | 1.24.6_1541 |

Below the table, the following details are shown:

- ID:** kube-cdjuf6rf04fu8roh9rb0-myclusterfr-default-00000001d
- Status:** Preparing to provision worker
- Flavor:** Free - 2 vCPUs 4GB RAM
- Private VLAN:** 2218181
- Public VLAN:** 2218179