

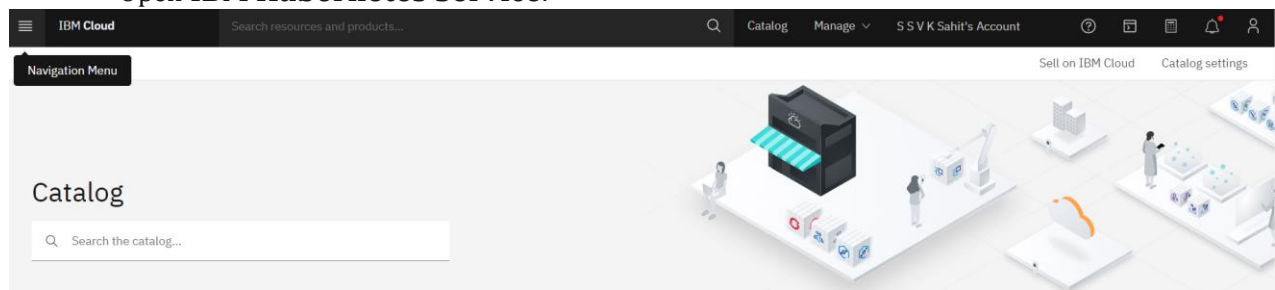
Deploy in Kubernetes Cluster

| | |
|--------------|------------------------------------|
| Date | 07 November 2022 |
| Team ID | PNT2022TMID03974 |
| Project Name | Skills/Job Recommender Application |

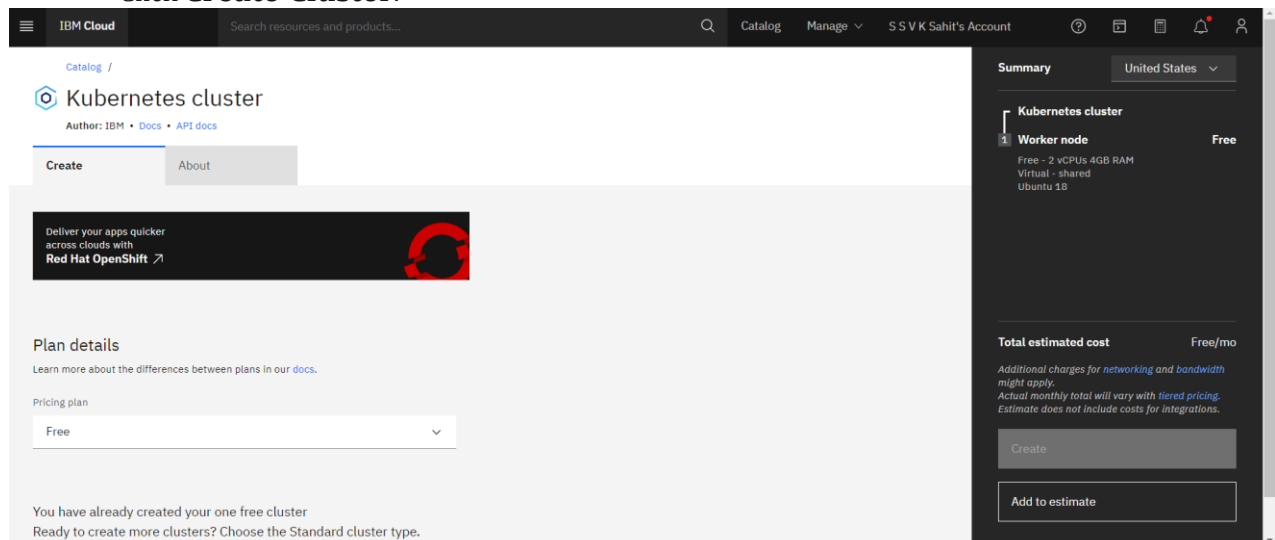
Steps

Create a Kubernetes cluster

- Sign in to your [IBM Cloud Dashboard](#).
- 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.
- Click on the Worker Nodes tab to note the cluster's Public IP

The screenshot shows the IBM Cloud Clusters overview page for a cluster named 'mycluster-free'. The cluster is in a 'Preparing master, workers...' state and will expire in 30 days. The overview includes several status cards: Node status (1 of 1 Pending), Add-on status (Error Unknown), Master status (Deploying), and Ingress status (Pending). Below these is a 'Details' section with the following information:

| Cluster ID | Version | Infrastructure | Zones |
|----------------------|-------------|----------------|----------|
| cdzvhn0f03iubn4ah1g0 | 1.24.8_1544 | Classic | Milan 01 |

Additional details include: Created 11/19/2022, 2:57 AM, Resource group, and an option to 'Enable' image security enforcement.

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.

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

The screenshot shows the 'Worker nodes' tab for the 'mycluster-free' cluster. It displays a table of worker nodes with the following columns: Name, Status, Worker pool, Zone, Private IP, Public IP, and Version. There is one worker node listed:

| Name | Status | Worker pool | Zone | Private IP | Public IP | Version |
|----------|------------------------------------|-------------|----------|----------------|----------------|-----------------|
| 0000003e | Provisioning - Master is deploying | default | Milan 01 | 10.144.222.242 | 159.122.181.80 | --> 1.24.7_1543 |

Below the table, there is a section for the node's ID, status, flavor, and VLANs:

| ID | Status | Flavor | Private VLAN | Public VLAN |
|--|---------------------|------------------------|--------------|-------------|
| kube-cdrvhn0f03iubn4ah1g0-myclusterfr-default-0000003e | Master is deploying | Free - 2 vCPUs 4GB RAM | 2218181 | 2218179 |

The page also includes a search bar, a filter dropdown, and pagination controls showing 1 of 1 item.

