

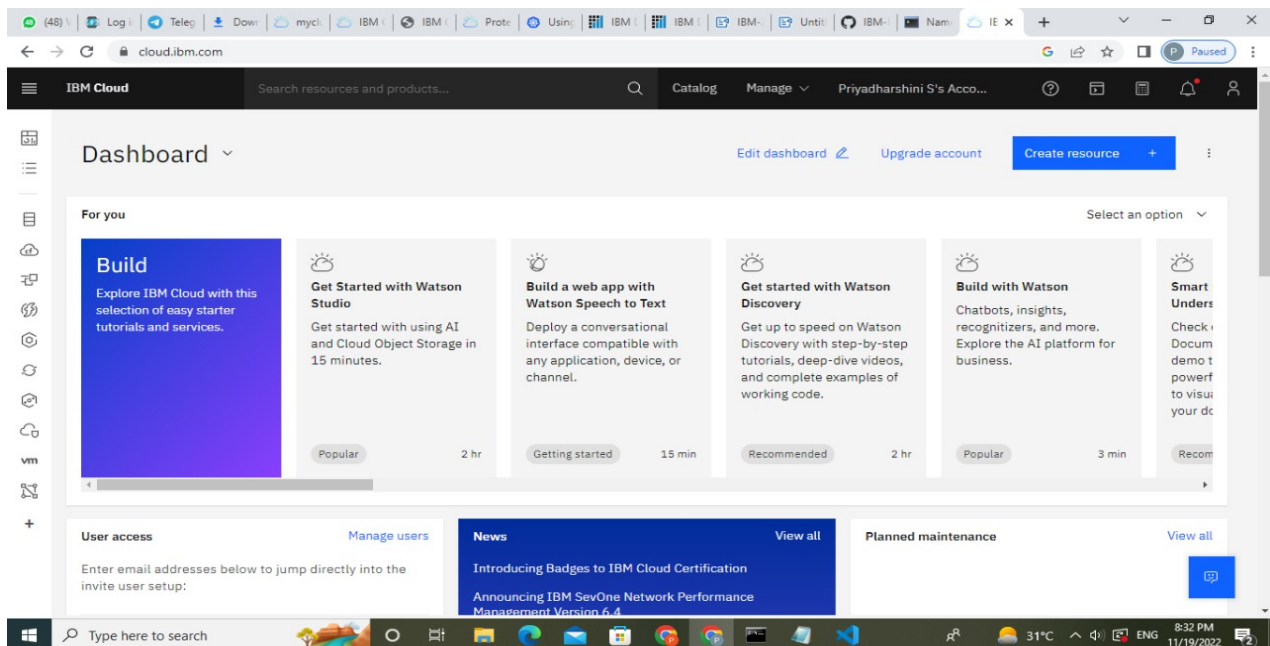
## Deployment of IBM Cloud Deploy in Kubernetes Cluster


TEAM ID	PNT2022TMID22348
PROJECT NAME	News Tracker Application

Steps:

Create a Kubernetes cluster

- Sign in to your [IBM Cloud Dashboard](#).
- Open **IBM Kubernetes Service**.
- Click Create Cluster.



Kubernetes

Clusters

Reservations


Helm catalog

Container Registry


## Deploy, scale, and manage your containerized application workloads

Deploy native Kubernetes clusters with the latest upstream versions on hardened master and worker nodes.

Create a cluster +




### Cluster capabilities




#### Clusters

Automate deployments and manage your containerized apps in a native Kubernetes experience.



#### Image registry

Safely store and share your Docker images with users in your IBM Cloud account.



#### Vulnerability Advisor

Use status reports to protect your workloads and stop non-secure images from running.

- 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).

The screenshot displays the IBM Cloud console for creating a Kubernetes cluster. The main area shows the 'Create' tab with a 'Pricing plan' dropdown set to 'Free'. A banner for Red Hat OpenShift is visible. The summary sidebar on the right provides details about the cluster and worker node, including the estimated cost and a 'Create' button.

- 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.

Create a Cluster - IBM Cloud

cloud.ibm.com/kubernetes/catalog/create

IBM Cloud Search resources and products... Catalog Manage Kuralarasan 92251910...

Pricing plan: Free

Kubernetes version: 1.24.7

Resource details: Cluster name: mycluster-free, Resource group: Default

Summary: United States, Kubernetes cluster, Worker node (Free), Total estimated cost: Free/mo, Create, Add to estimate

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

IBM Cloud Search resources and products... Catalog Manage Priyadharshini S's Acco...

Clusters / mycluster-free Preparing master, workers... Expires in 30 days Add tags Help Kubernetes dashboard Actions...

Overview Worker nodes Worker pools DevOps New

Expires in 30 days: Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.

Node status: 1 of 1 Normal Details

Add-on status: 0 of 0 Normal Details

Master status: Normal Docs

Ingress status: Healthy Docs

Details: Cluster ID: cdse14mf8f1sq9v1qtg, Version: 1.24.8\_1544, Infrastructure: Classic, Zones: Milan 01, Created: 11/19/2022, 8:09 PM, Resource group: Default, Image security enforcement: Enable

cloud.ibm.com/kubernetes/clusters/cdse14mf0f1sq9v1qteg/nodes

IBM Cloud

Search resources and products...

CatalogManage▼Priyadharshini S's Acco...

Clusters /

mycluster-free

Preparing master, workers...

Expires in 30 days

Add tags

HelpKubernetes dashboardActions...

Overview

Worker nodes

Worker pools

DevOps

New

Pool: Filter...

Search

Add

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input type="checkbox"/>	00000066	<div>Normal</div>	default	Milan 01	10.144.213.221	169.51.203.98	1.24.7_1543
<div>ID</div> <div>kube-cdse14mf0f1sq9v1qteg-myclusterfr-default-00000066</div> <div><div>Status</div><div>Flavor</div><div>Free - 2 vCPUs 4GB RAM</div><div>Private VLAN</div><div>2218181</div><div>Public VLAN</div><div>2218179</div></div>							

Items per page: 25

1-1 of 1 item

11 of 1 page

https://cloud.ibm.com/kubernetes/clusters/cdse14mf0f1sq9v1qteg/nodes

Type here to search

31°C

8:33 PM

11/19/2022