

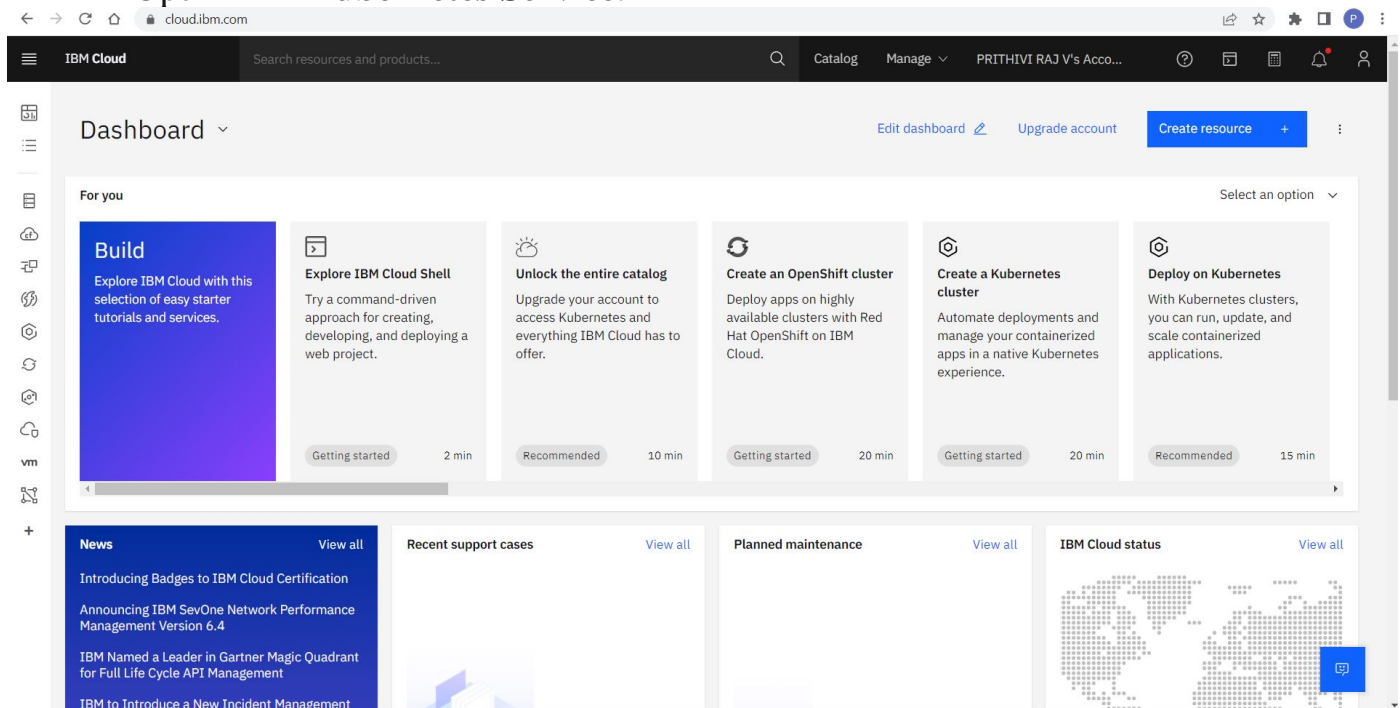
Setting up Application Environment Deploy in Kubernetes Cluster

Date	18 November 2022
Team ID	PNT2022TMID21269
Project Name	Plasma Donor 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).

The screenshot shows the 'Kubernetes cluster' creation page on the IBM Cloud catalog. The page is divided into several sections:

- Plan details:** Includes a 'Pricing plan' dropdown set to 'Standard' and a link to learn more about differences between plans.
- Infrastructure:** Offers two options: 'Classic' (Run your cluster with native subnet and VLAN networking on our classic infrastructure.) and 'VPC' (Create a fully customizable, software-defined virtual network with superior isolation using IBM Cloud VPC.). The 'Classic' option is selected.
- Summary (United States):**
 - Kubernetes cluster:** Worker nodes at \$2.65/hr (b3c.4x16 - 4 vCPUs 16GB RAM, Virtual - shared, Ubuntu 18).
 - Multizone load balancer:** \$0.02/hr. Note: Multizone clusters require a cross-zone load balancer.
 - Integrations:**
 - Activity tracking:** \$1.50/GB-mo (activity-us-south-rq - 7 day Event Search).
 - Logging:** \$1.50/GB-mo (logs-us-south-IM - 7 day Log Search).
 - Monitoring:** \$0.05/GB-mo.
 - Total estimated cost:** \$1,919.52/mo.

Additional charges for networking and bandwidth might apply. Actual monthly total will vary with tiered pricing. Estimate does not include costs for integrations. Buttons for 'Upgrade to create' and 'Add to estimate' are visible.

- 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 'plasma-cluster' overview page in the IBM Cloud console. The cluster is in a 'Normal' state and 'Expires in 27 days'. The page includes a sidebar with navigation links: Overview, Worker nodes, Worker pools, and DevOps (marked as 'New').

Overview Summary:

- Node status:** 1 of 1, Normal.
- Add-on status:** 0 of 0, Normal.
- Master status:** Normal.
- Ingress status:** Healthy.

Details:

Cluster ID	Version	Infrastructure	Zones
cdimbp1f00kdeuo2kv8g	1.24.8_1544	Classic	Milan 01

A warning banner states: 'Expires in 27 days: Be sure to back up your data, your cluster will be deleted in 27 days. To access the full capabilities of the service, try out a standard cluster.'

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