

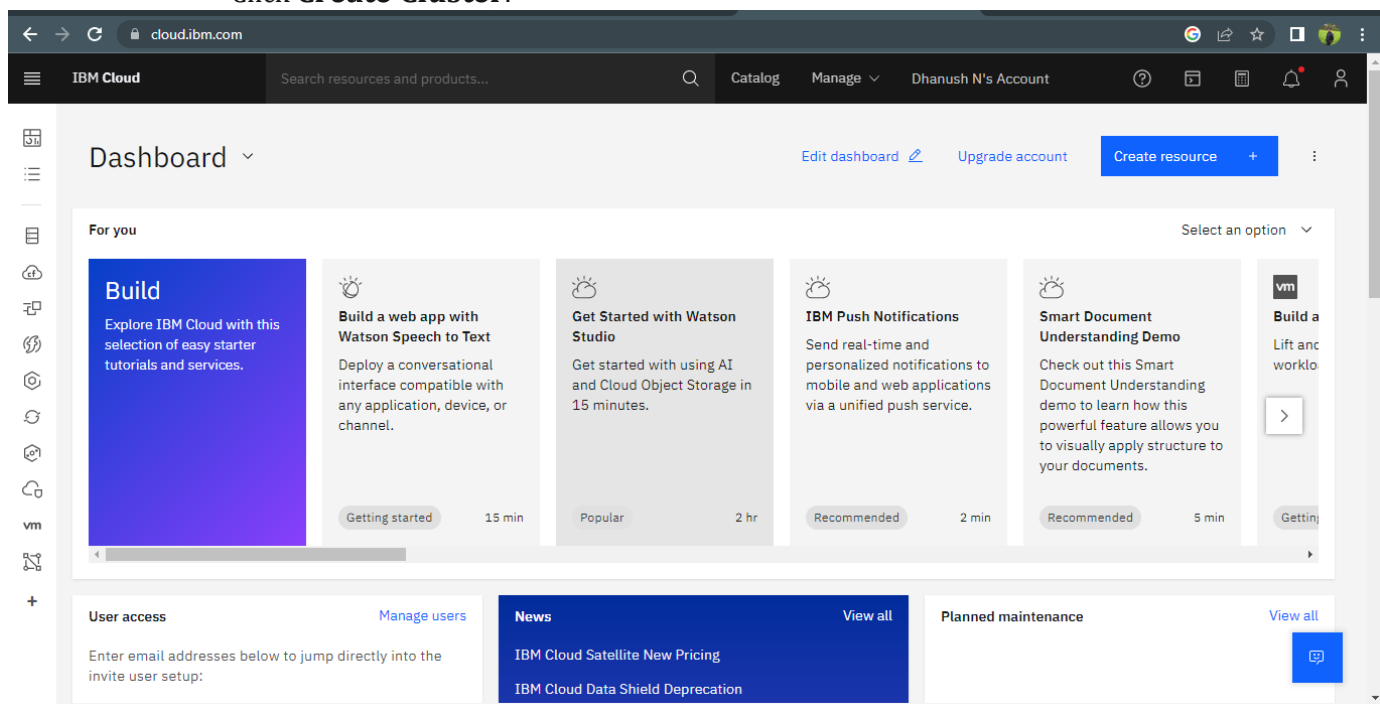
Deploy In Kubernetes Cluster


Team ID	PNT2022TMID46363
Project Name	Containment Zone Alerting 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

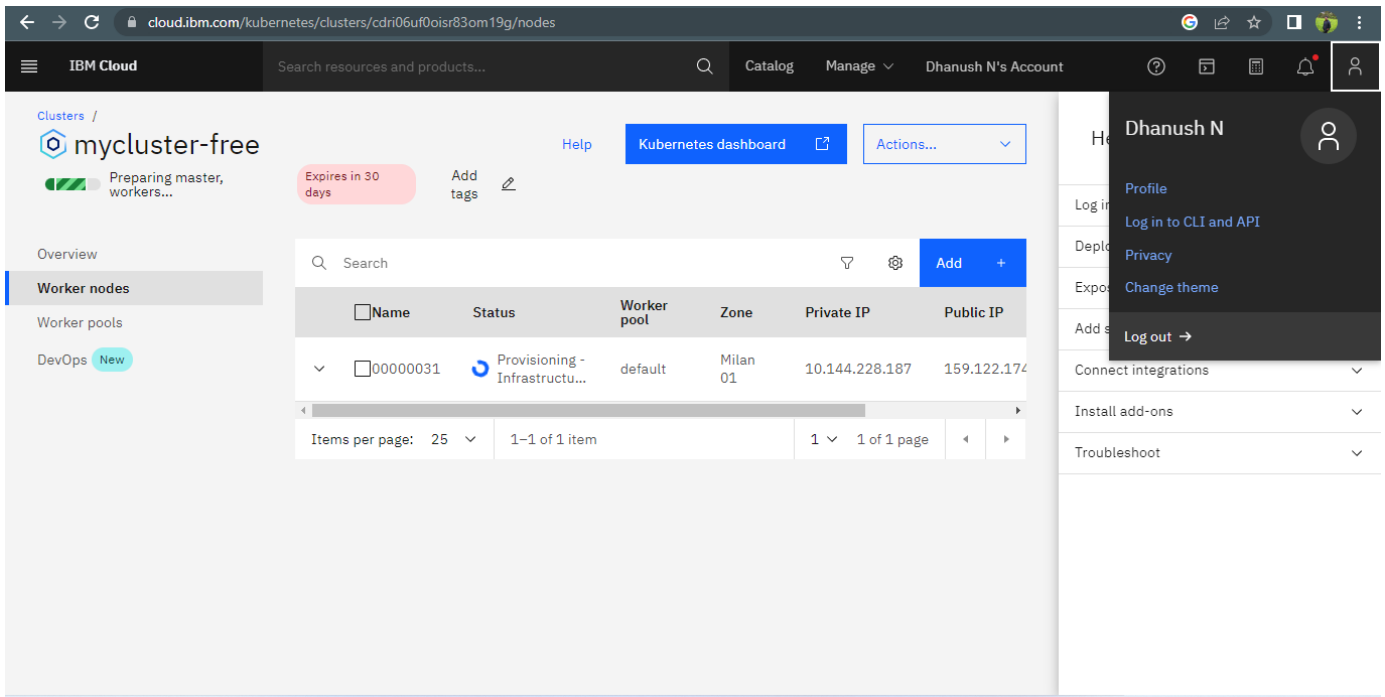
Use status reports to protect your workloads and stop non-secure images from running.

- 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 shows the IBM Cloud Kubernetes cluster overview page for a cluster named 'mycluster-free'. The cluster is in a 'Pending' state, with the master node 'Deploying' and no worker nodes yet. A warning banner indicates the cluster will expire in 30 days. The left sidebar shows navigation options: Overview, Worker nodes, Worker pools, and DevOps (marked as 'New'). The right sidebar contains a 'Help' menu with options like 'Log in to your cluster', 'Deploy your app', 'Expose your app', 'Add storage to your app', 'Connect integrations', 'Install add-ons', and 'Troubleshoot'. The main content area displays status cards for Node status (1 of 1 Pending), Add-on status (0 of 0 Normal), Master status (Deploying), and Ingress status (Pending). Below these is a 'Details' section showing the Cluster ID, Version (1.24.8_1544), Infrastructure (Classic), Zones (Milan 01), Created time (11/18/2022, 11:33 AM), Resource group, and Image security enforcement.

The screenshot shows the IBM Cloud Kubernetes cluster creation page. The page title is 'Kubernetes cluster' with author links for IBM, Docs, and API docs. There are two tabs: 'Create' (active) and 'About'. A promotional banner for Red Hat OpenShift is visible. The 'Plan details' section includes a link to learn more about plan differences and a 'Pricing plan' dropdown menu currently set to 'Free'. The 'Kubernetes version' section has a text input field for selecting the platform version. On the right, a 'Summary' sidebar shows the 'Kubernetes cluster' details, including a 'Worker node' specification (Free, 2 vCPUs, 4GB RAM, Virtual - shared, Ubuntu 18). It also displays the 'Total estimated cost' as 'Free/mo' and includes a 'Create' button and an 'Add to estimate' button.

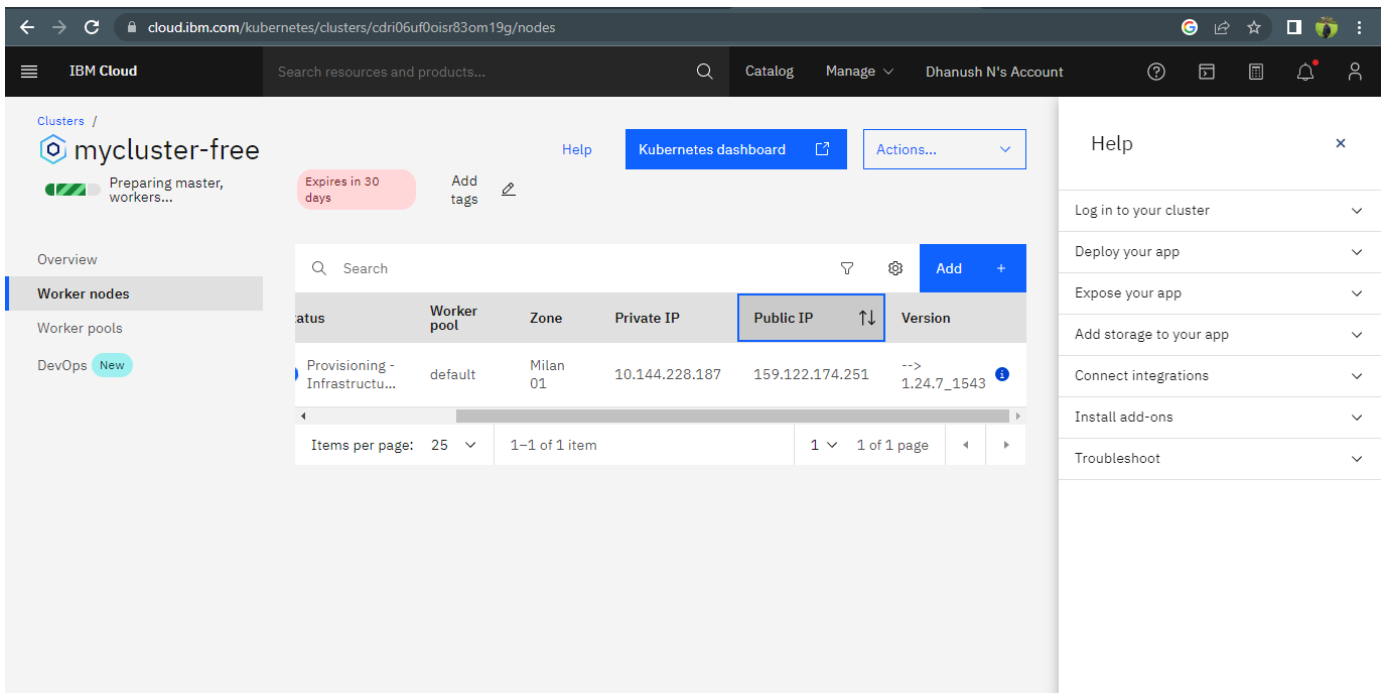
- Once the cluster is ready, click on your cluster's name and you will be redirected to a newpage with information about your cluster and worker node.



The screenshot shows the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The 'Worker nodes' tab is active, showing a table with one node. The node's status is 'Provisioning - Infrastructu...', and its public IP is 159.122.174.251. A user menu is open on the right side of the dashboard.

Name	Status	Worker pool	Zone	Private IP	Public IP
00000031	Provisioning - Infrastructu...	default	Milan 01	10.144.228.187	159.122.174.251

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



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Status	Worker pool	Zone	Private IP	Public IP	Version
Provisioning - Infrastructu...	default	Milan 01	10.144.228.187	159.122.174.251	1.24.7_1543