

DEPLOY IN KUBERNETES CLUSTER

TEAM ID	PNT2022TMID32587
PROJECT NAME	NUTRITION ASSISTANT APPLICATION

Create a Kubernetes cluster :

Sign in to your IBM Cloud Dashboard. ?

Open IBM Kubernetes Service.

Click Create Cluster:

The screenshot shows the IBM Cloud Kubernetes Service overview page. The browser address bar displays 'cloud.ibm.com/kubernetes/overview'. The left sidebar contains navigation links: 'Kubernetes', 'Clusters', 'Reservations', 'Helm catalog', and 'Container Registry'. The main content area features the heading 'Deploy, scale, and manage your containerized application workloads' and a subheading 'Deploy native Kubernetes clusters with the latest upstream versions on hardened master and worker nodes.' A prominent blue button labeled 'Create a cluster' is visible. Below this, the 'Cluster capabilities' section highlights three features: 'Clusters' (Automate deployments and...), 'Image registry' (Safely store and share your...), and 'Vulnerability Advisor' (Use status reports to protect...).

mycluster-free - IBM Cloud

cloud.ibm.com/kubernetes/clusters/cdsf49of0iitlt1rbkg/overview

IBM Cloud

Search resources and products...

Catalog

Manage

Almaas T's Account

Clusters /

mycluster-free

Normal

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	Version	Infrastructure	Zones
cdsf49of0iitlt1rbkg	1.24.8_1544	Classic	Milan 01

Log in to your cluster

1. Launch the IBM Cloud Shell

For quick access in clusters with a public cloud service endpoint, use the [IBM Cloud Shell](#). To download the CLI locally, see the [docs](#).

IBM Cloud Shell

2. Set the context for your cluster in the IBM Cloud Shell

For more access options that vary with your cluster network setup, see the [docs](#).

ibmcloud ks cluster co

Deploy your app

Expose your app

Add storage to your app

24°C Haze

21:10 19-11-2022

IBM Cloud interface showing the 'mycluster-free' cluster details. The cluster is in a 'Normal' state and expires in 30 days. The 'Worker nodes' section displays a table with one node:

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000000a	Normal	default	Milan 01	10.144.213.230	169.51.203.114	1.24.7_1543

Navigation links include Overview, Worker nodes, Worker pools, and DevOps (marked as New). A 'Kubernetes dashboard' button is also visible.

Kubernetes dashboard interface showing the 'Services' section. The dashboard displays a table of services:

Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created
nutrition	Show all	NodePort	172.21.250.82	nutrition:5000 TCP nutrition:30425 TCP	-	an hour ago
kubernetes	Show all	ClusterIP	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	an hour ago

The left sidebar contains navigation links for Workloads (Cron Jobs, Daemon Sets, Deployments, Jobs, Pods, Replica Sets, Replication Controllers, Stateful Sets), Service (Ingresses, Ingress Classes, Services), and Config and Storage (Config Maps, Persistent Volume Claims, Secrets).