

# Deployment in Kubernetes

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## Question:

### 1. Login to IBM cloud account and create free Kubernetes services

The screenshot displays the IBM Kubernetes Dashboard interface. The top navigation bar includes the 'kubernetes' logo, a dropdown menu set to 'default', a search bar, and user profile icons. The left sidebar lists various Kubernetes resources: 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, Storage Classes). The main content area is titled 'Workload Status' and features three large red circular indicators representing the status of Deployments, Pods, and Replica Sets. Below these indicators, a table lists the 'Deployments' for the 'flask-app'.

Name	Images	Labels	Pods	Created
flask-app	Show all	-	0 / 5	4 minutes ago

Below the Deployments table, a section for 'Pods' is visible, showing a list of pods with their respective status and details.

## 2. Click on working node tag to note cluster Ip.

The screenshot displays the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The cluster is in a 'Normal' state and expires in 29 days. The 'Worker nodes' tab is selected, showing a table with one node. The node's status is 'Normal', and its public IP is 169.51.205.202. The dashboard includes a sidebar with navigation options like Overview, Worker nodes, Worker pools, and DevOps. The top navigation bar shows the IBM Cloud logo, a search bar, and user account information.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000007d	Normal	default	Milan 01	10.144.214.101	169.51.205.202	1.24.7_1543

## 3. deploy your app using Kubernetes command

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
mycluste




eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdltpof0uv2a9hfiubg/service/#/pod?namespace=default

IBMIBM CloudLoading...SendGridGrowwKubernetes Dashbo...Docker Hub

kubernetes

default

Search



Workloads > Pods

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage

Config Maps

Persistent Volume Claims

Secrets

Storage Classes

Pods

	Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
	flask-app-5c85fdb465-fqx8b	Show all	Show all	10.144.214.101	ErrImageNev 0	-	-	-	5.minutes ago
	flask-app-5c85fdb465-gvv9x	Show all	Show all	10.144.214.101	ErrImageNev 0	-	-	-	5.minutes ago
	flask-app-5c85fdb465-wmrb6	Show all	Show all	10.144.214.101	ErrImageNev 0	-	-	-	5.minutes ago
	flask-app-5c85fdb465-xqf5h	Show all	Show all	10.144.214.101	ErrImageNev 0	-	-	-	5.minutes ago
	flask-app-5c85fdb465-zqpb9	Show all	Show all	10.144.214.101	ErrImageNev 0	-	-	-	5.minutes ago