

DEPLOYMENT OF APP IN IBM CLOUD

DEPLOY IN KUBERNETES CLUSTER

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Team ID	PNT2022TMID54054
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

DEPLOY IN KUBERNETES CLUSTER:

1. Kubernetes Clusters in IBM Cloud

The screenshot shows the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The cluster is in a 'Preparing master, workers...' state and will expire in 30 days. The dashboard displays the following information:

- Node status:** 1 of 1 Pending
- Add-on status:** 0 of 0 Normal
- Master status:** Unknown
- Ingress status:** Pending
- Cluster ID:** cdpmbthf08013k4hkn0
- Version:** 1.24.7_1542
- Infrastructure:** Classic
- Zones:** Milan 01
- Created:** 11/15/2022, 3:42 PM
- Resource group:** (empty)
- Image pull secrets:** Enable
- Image security enforcement:** Enable
- Node health:** (empty)

2. Node Health of Kubernetes

The screenshot shows the IBM Cloud Kubernetes overview page for a cluster named 'mycluster-free'. The page is divided into several sections:

- Details:** Displays cluster information including Cluster ID (cdpmbthf08013k4hkn0), Version (1.24.7_1542), Infrastructure (Classic), Zones (Milan 01), Created (11/15/2022, 3:42 PM), Resource group (Default), and Image security enforcement (Enable).
- Node health:** Shows 1 total nodes with a green bar indicating 100% Normal status. A legend below shows Critical 0%, Warning 0%, Normal 100%, and Pending 0%.
- Networking:** Displays the Service endpoint URL with options for Public enabled (checked) and Private disabled (unchecked).

3. Kubernetes Service

The screenshot shows the IBM Cloud Kubernetes Service page for the 'kubernetes' service. The page is divided into several sections:

- Workloads:** A sidebar menu with options like Cron Jobs, Daemon Sets, Deployments, Jobs, Pods, Replica Sets, Replication Controllers, Stateful Sets, Ingresses, Ingress Classes, and Services.
- Services:** A table listing the services in the cluster. The table has columns for Name, Labels, Type, Cluster IP, Internal Endpoints, External Endpoints, and Created.

Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created
kubernetes	Show all	ClusterIP	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	22 minutes ago

4. Kubernetes Dashboard

The screenshot shows the Kubernetes Dashboard interface in a web browser. The breadcrumb navigation at the top indicates the path: Cluster > Cluster Roles > kubernetes-dashboard. The left sidebar contains a list of Kubernetes resources, with 'Cluster Roles' selected. The main content area is divided into two sections: 'Metadata' and 'Rules'.

Metadata

Name	Created	Age	UID
kubernetes-dashboard	Nov 15, 2022	19 minutes ago	17448e01-564c-4833-a568-456cda5184f5

Labels

- addonmanager.kubernetes.io/mode: Reconcile
- k8s-app: kubernetes-dashboard

Annotations

- kubectrl.kubernetes.io/fast-applied-configuration

Rules

Resources	Non-resource URL	Resource Names	Verbs	API Groups
Pods, nodes	-	-	get, list, watch	metrics.k8s.io

5. Worker Nodes of Kubernetes

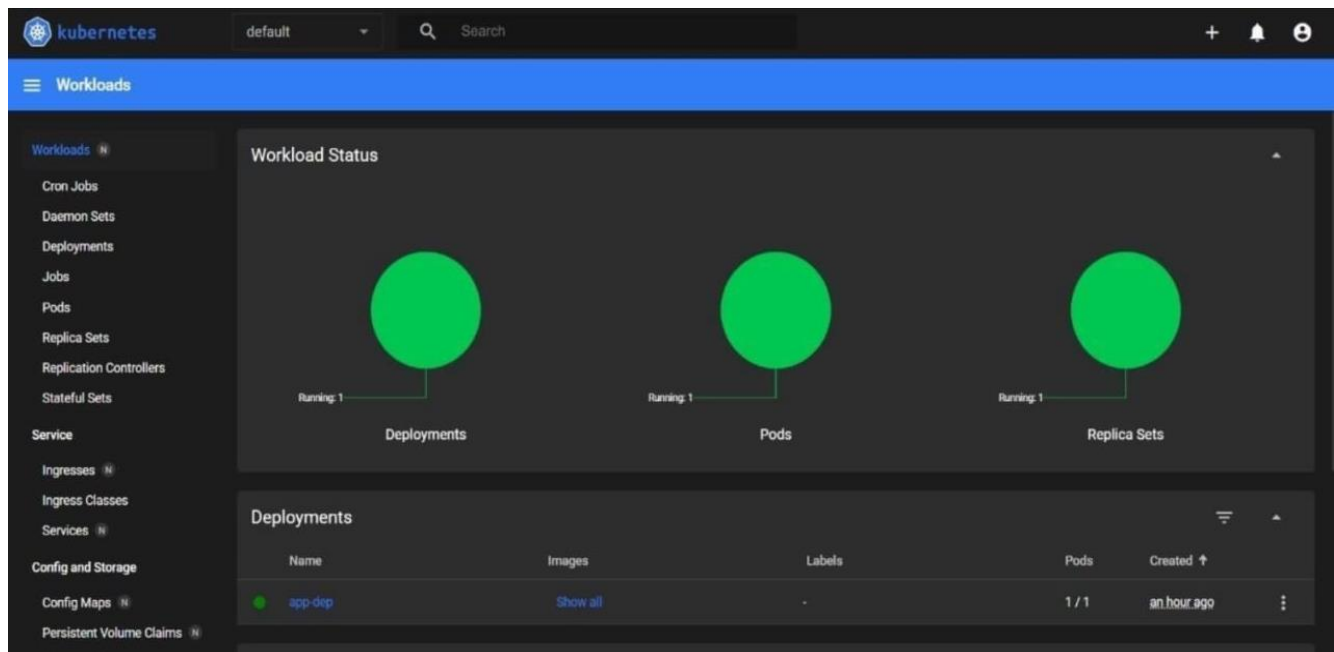
The screenshot shows the IBM Cloud console interface. The breadcrumb navigation at the top indicates the path: Clusters / mycluster-free. The left sidebar contains a list of cluster resources, with 'Worker nodes' selected. The main content area displays a table of worker nodes.

Worker nodes

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000070	Normal	default	Milan 01	10.144.214.78	159.122.181.167	1.24.7_1543

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6. Kubernetes Workload Status



7. Kubernetes Deployment

