

Deployment of app in IBM Cloud

Date	25 October 2022
Team ID	PNT2022TMID14438
Project Name	Project – Customer Care Registry

1. Containerize the app

Images [Give feedback](#)

An image is a read-only template with instructions for creating a Docker container. [Learn more](#)

LOCAL REMOTE REPOSITORIES

432.14 MB / 1.55 GB in use 16 images Last refresh: about 10 hours ago

Search

NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
jobportal	latest	In use	4 days ago	141.89 MB	
uk.icr.io/ibm_assignments/jobportal	latest	In use	4 days ago	141.89 MB	
hubproxy.docker.internal:5000/docker/desktop-kub	kubernetes-v1	Unused	about 2 months ago	363.32 MB	
k8s.gcr.io/kube-apiserver	v1.25.2	Unused	about 2 months ago	127.73 MB	
k8s.gcr.io/kube-scheduler	v1.25.2	Unused	about 2 months ago	50.58 MB	
k8s.gcr.io/kube-controller-manager	v1.25.2	Unused	about 2 months ago	117.1 MB	

Showing 16 items

RAM 3.55GB CPU 4.73% Connected to Hub v4.14.0

2. Upload image to IBM container registry

Images

Location: London

View by: Digest Search Create +

Repository@digest	Tags	Manifest type	Created	Size	Security status
ibm_assignments/jobportal@sha256:1b6fce44efe7...	latest	Docker	4 days ago	59 MB	3 issues

Items per page: 25 1-1 of 1 item 1 1 of 1 page

3. Deploy in kubernetes cluster

The screenshot shows the Azure portal interface for an AKS cluster named 'mycluster-free'. The cluster is in a 'Normal' state and is scheduled to expire in 26 days. The left sidebar contains navigation links for Overview, Worker nodes, Worker pools, and DevOps (marked as 'New'). The main content area displays a warning about the 26-day expiration and a summary of cluster health metrics: 1 of 1 nodes are normal, 0 of 0 add-ons are normal, the master status is normal, and the ingress status is healthy. Below these metrics, a 'Details' section provides information about the cluster ID, version (1.24.7_1542), infrastructure type (Classic), zones (Milan 01), creation time (11/15/2022, 3:39 AM), resource group (Default), and image security enforcement (Enabled). A 'Node health' section is also visible at the bottom.

Clusters / mycluster-free Normal Expires in 26 days Add tags

Help Kubernetes dashboard Actions...

Expires in 26 days:
Be sure to back up your data, your cluster will be deleted in 26 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
cdpbbpbf0sn161f60hg0	1.24.7_1542	Classic	Milan 01
Created	Resource group	Image security enforcement	
11/15/2022, 3:39 AM	Default	Enable	

Node health Worker node details

The screenshot displays the Kubernetes dashboard. The top navigation bar includes the 'kubernetes' logo, a 'default' namespace selector, a search bar, and icons for adding resources, notifications, and user profile. The left sidebar lists various workload and service types under 'Workloads' and 'Service' categories. The main content area is divided into two sections. The 'Workload Status' section features three large green circles representing the status of Deployments, Pods, and Replica Sets, each with a 'Running' count of 1. The 'Deployments' section below it shows a table with details for a deployment named 'jobportal', including its image, labels, pod count (3/3), and creation time (2 minutes ago).

kubernetes default Search

Workloads

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

Workload Status

Running: 1 Deployments

Running: 0 Pods

Running: 1 Replica Sets

Deployments

Name	Images	Labels	Pods	Created
jobportal	uk.icr.io/ibm_assignments/jobportal	-	3 / 3	2 minutes ago