



Deployment Of App In IBM Cloud

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TASK

- Containerize the App
- Upload image to IBM Container Registry
- Deploy in Kubernetes Cluster

Containerize the App

✚ Docker image creation

The screenshot shows the Docker Desktop application window. On the left is a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (marked BETA), Extensions (marked BETA), and Add Extensions. The main panel is titled 'Images on disk' and shows a list of local Docker images. At the top right of the main panel, it indicates 'Last refresh: 1 minute ago', '6 images', '607.06 MB total size', and '0 Bytes / 607.06 MB in use', with a 'Clean up' button. Below this is a search bar and a checkbox for 'In use only'. The image list has columns for NAME, TAG, IMAGE ID, CREATED, and SIZE. The images listed are centos, httpd, nginx (two entries), ubuntu (two entries), and another ubuntu entry. The status bar at the bottom shows system information: RAM 1.80GB, CPU 0.00%, Connected to Hub, and version v4.12.0. The Windows taskbar is visible at the very bottom.

NAME	TAG	IMAGE ID	CREATED	SIZE
centos	latest	5d0da3dc9764	about 1 year ago	231.27 MB
httpd	2.4.48-alpine	5a4f32436238	about 1 year ago	54.82 MB
nginx	latest	76c69feac34e	13 days ago	141.78 MB
nginx	stable-alpine	ec84f916d1ec	18 days ago	23.56 MB
ubuntu	latest	cdb68b455a14	13 days ago	77.79 MB
ubuntu	<none>	216c552ea5ba	about 1 month ago	77.84 MB

Upload image to IBM Container Registry

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

Deploy in Kubernetes Cluster

Deploy on kubernets

The screenshot shows the IBM Cloud Kubernetes Dashboard. The cluster is named 'mycluster-free' and is in the 'Preparing master, workers...' state, with a warning that it 'Expires in 30 days'. The dashboard includes a sidebar with 'Overview', 'Worker nodes', 'Worker pools', and 'DevOps' (marked as 'New'). The main area displays a table of worker nodes.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
000000c9	Deployed	default	Milan 01	10.144.213.108	169.51.206.6	1.24.7_1543

At the bottom of the dashboard, there is a footer with system icons and the time '10:20 AM 11-11-2022'.