

Creating Kubernetes Cluster using IBM Cloud Container Registry

```
Windows PowerShell
PS C:\Users\arunk> docker push itsarunkumar/new-repo:frontend
The push refers to repository [docker.io/itsarunkumar/new-repo]
An image does not exist locally with the tag: itsarunkumar/new-repo
PS C:\Users\arunk> docker tag frontend itsarunkumar/new-repo:frontend
PS C:\Users\arunk> docker push itsarunkumar/new-repo:frontend
The push refers to repository [docker.io/itsarunkumar/new-repo]
8849e24590a9: Pushed
bd78ff83240a: Pushed
9a213c084531: Pushed
1ef7999b69de: Pushed
519a8280e251: Pushed
a30a7040839b: Pushed
7c388ee32629: Pushed
a5e13b0c77cb: Pushed
frontend: digest: sha256:2c71d072de754b214dcf990c8ebbd4499cbd7eb209ff18039c83f2f6e3dd8b8b size: 1996
PS C:\Users\arunk>
```

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Windows PowerShell
7c388ee32629: Pushed
a5e13b0c77cb: Pushed
frontend: digest: sha256:2c71d072de754b214dcf990c8ebbd4499cbd7eb209ff18039c83f2f6e3dd8b8b size: 1996
PS C:\Users\arunk>
PS C:\Users\arunk>
PS C:\Users\arunk> docker pull itsarunkumar/new-repo:flaskv2
flaskv2: Pulling from itsarunkumar/new-repo
Digest: sha256:d71e6d6d97e368773af91bde168d191073343cf48aee4f4e0e450df230e35224
Status: Image is up to date for itsarunkumar/new-repo:flaskv2
docker.io/itsarunkumar/new-repo:flaskv2
PS C:\Users\arunk> docker tag flaskv2 icr.io/pdaapp/pdarepo:flaskv2
PS C:\Users\arunk> docker push icr.io/pdaapp/pdarepo:flaskv2
The push refers to repository [icr.io/pdaapp/pdarepo]
0a8fa8929ae0: Pushed
5f70bf18a086: Pushed
ec0249f5518e: Pushed
5183217745a1: Pushed
905ede8abeca: Pushed
63ab7579942e: Pushed
e6e9854ca999: Pushed
397a239a053b: Pushed
89c3244a87b2: Pushed
80231db1194c: Pushed
f1c1f2298584: Pushed
ccba29d69370: Pushed
flaskv2: digest: sha256:d71e6d6d97e368773af91bde168d191073343cf48aee4f4e0e450df230e35224 size: 2847
PS C:\Users\arunk> ibmcloud cr image-list
Listing images...

Repository          Tag      Digest          Namespace   Created      Size      Security status
icr.io/pdaapp/pdarepo flaskv2   d71e6d6d97e3   pdaapp     23 hours ago 448 MB    -
icr.io/pdaapp/pdarepo frontend 2c71d072de75   pdaapp     23 hours ago 196 MB    -

OK
PS C:\Users\arunk> |
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Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\arunk> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
applicationui        latest             97dae1fb61ee       About an hour ago  596MB
backend              latest             e0912a969d6b       22 hours ago      1.11GB
flaskv2              latest             e0912a969d6b       22 hours ago      1.11GB
itsarunkumar/new-repo frontend           77313fe750dc       23 hours ago      596MB
frontend             latest             77313fe750dc       23 hours ago      596MB
PS C:\Users\arunk> docker tag flaskv2 itsarunkumar/new-repo:flaskv2
PS C:\Users\arunk> docker tag flaskv2 itsarunkumar/new-repo:flaskv2
PS C:\Users\arunk> docker push itsarunkumar/new-repo:flaskv2
The push refers to repository [docker.io/itsarunkumar/new-repo]
0a8fa8929ae0: Pushed
5f70bf18a086: Pushed
ec0249f5518e: Pushed
5183217745a1: Pushed
905ede8abeca: Mounted from library/python
63ab2579942e: Mounted from library/python
e6e9854ca999: Mounted from library/python
397a239a053b: Mounted from library/python
89c3244a87b2: Mounted from library/python
80231db1194c: Mounted from library/python
f1c1f2298584: Mounted from library/python
ccba29d69370: Mounted from library/python
flaskv2: digest: sha256:d71e6d6d97e368773af91bde168d191073343cf48aee4f4e0e450df230e35224 size: 2847
PS C:\Users\arunk> |
```

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Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\arunk> ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.

OK
PS C:\Users\arunk> ibmcloud cr namespace-add pdaapp
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.

Adding namespace 'pdaapp' in resource group 'Default' for account Arun Kumar's Account in registry icr.io...

Successfully added namespace 'pdaapp'

OK
PS C:\Users\arunk> ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK
PS C:\Users\arunk> |
```

```
Windows PowerShell
PS C:\Users\arunk> ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.

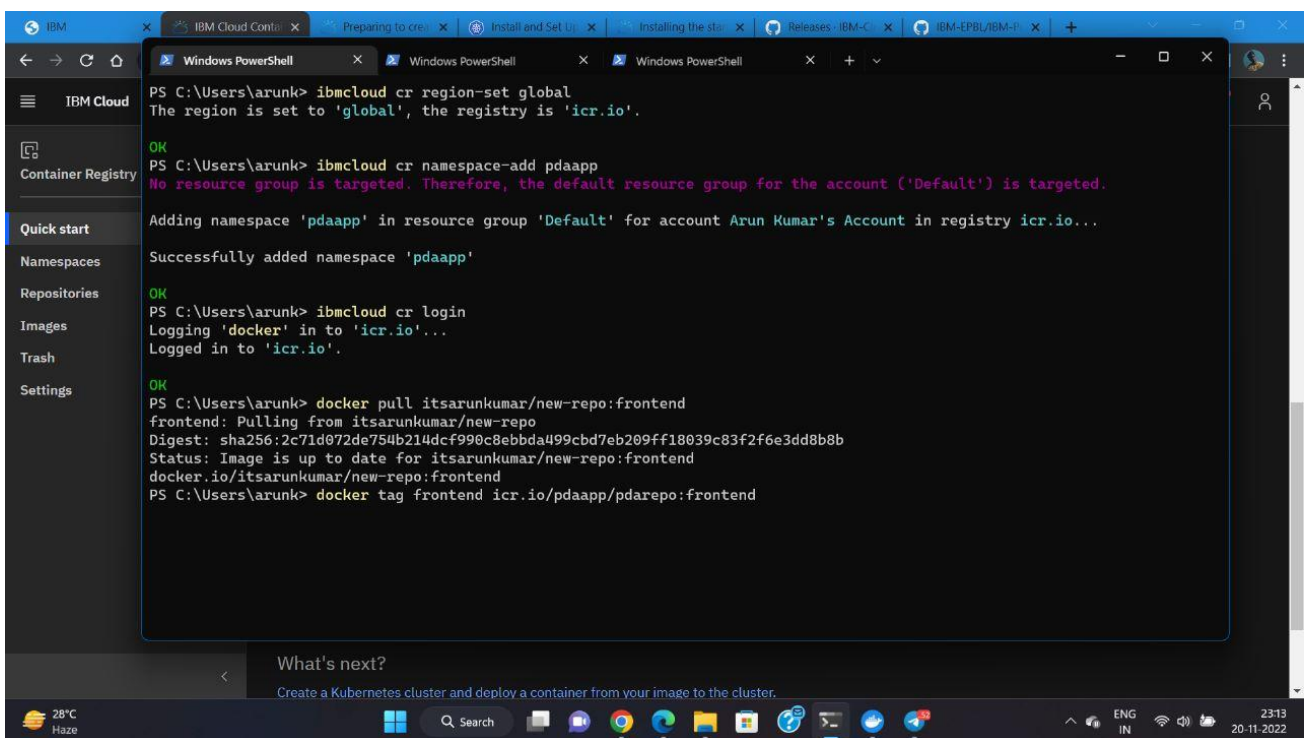
OK
PS C:\Users\arunk> ibmcloud cr namespace-add pdaapp
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.

Adding namespace 'pdaapp' in resource group 'Default' for account Arun Kumar's Account in registry icr.io...

Successfully added namespace 'pdaapp'

OK
PS C:\Users\arunk> ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK
PS C:\Users\arunk> docker pull itsarunkumar/new-repo:frontend
frontend: Pulling from itsarunkumar/new-repo
Digest: sha256:2c71d072de754b214dcf990c8ebbd4499cbd7eb209ff18039c83f2f6e3dd8b8b
Status: Image is up to date for itsarunkumar/new-repo:frontend
docker.io/itsarunkumar/new-repo:frontend
PS C:\Users\arunk> docker tag frontend icr.io/pdaapp/pdarepo:frontend
PS C:\Users\arunk> docker push icr.io/pdaapp/pdarepo:frontend
The push refers to repository [icr.io/pdaapp/pdarepo]
8849e24598a9: Pushing [=====] 2.134MB
bd78ff83240a: Pushing [>] 8.094MB/425.4MB
9a213c084531: Pushing [=====] 3.072kB
1ef7090b69de: Pushing 2.048kB
519a8280e251: Pushing [=====] 3.584kB
e30a7040839b: Waiting
7c388ee32629: Preparing
e5e13b0c77cb: Waiting
```



IBM Cloud

Search resources and products...

CatalogManageVasanth V's Account

Container Registry

Quick start

Namespaces1

Repositories0

Images0

Trash0

Settings

Namespaces

Location

Global

Resource group: Filter...Search

Create

Name	Resource group	Repository count	Image count	Retention policy
application	Default	0	0	

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IBM Cloud Container Registry

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdt714f0t0h1kri17vg/service/#/overview?namespace=default

kubernetesdefaultSearch

Overview

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage

Config Maps

Deployments

Name	Images	Labels	Pods	Created
plasmab	Show all	Show all	0 / 1	40 seconds ago

Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
plasmab-78f4c78b78-fdcfq	Show all	Show all	10.144.215.115	ContainerCr0	-	-	-	40 seconds ago

Replica Sets

Name	Images	Labels	Pods	Created
plasmab-78f4c78b78	Show all	Show all	0 / 1	40 seconds ago

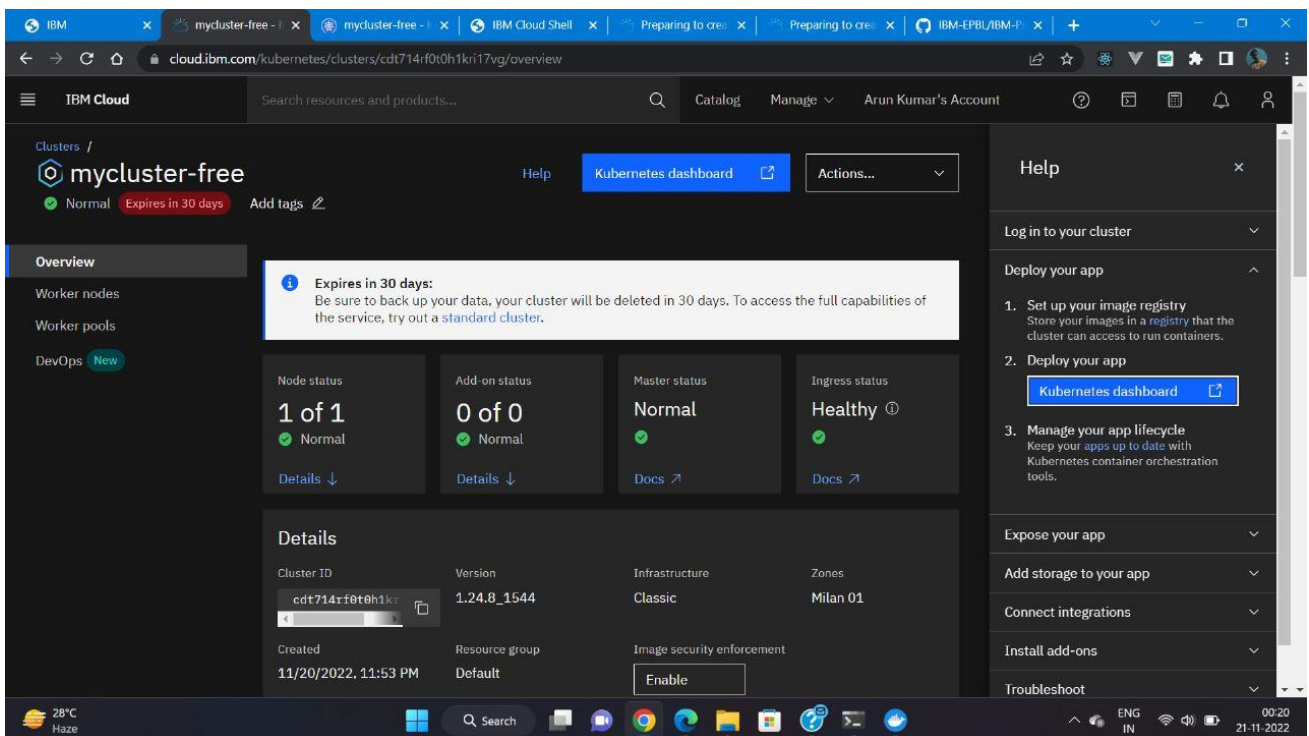
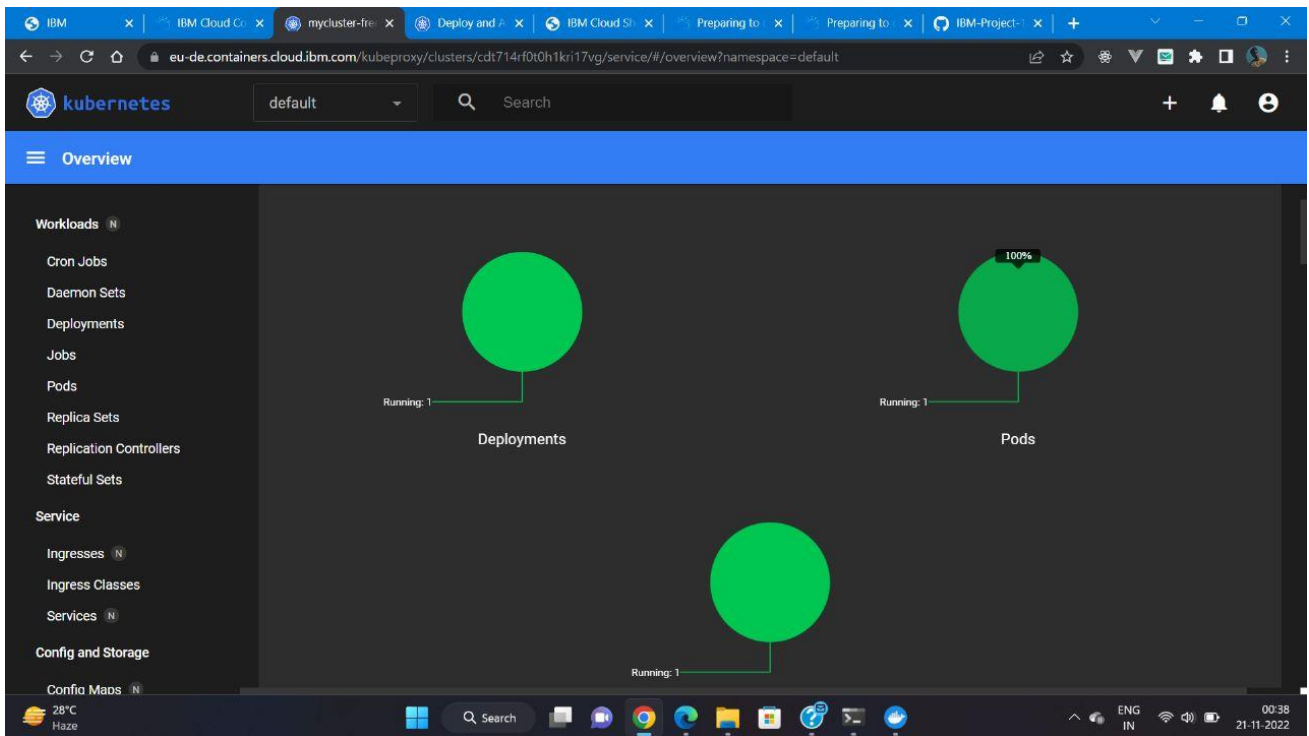
Service

28°C Haze

Search

ENG IN

00:36 21-11-2022



Team ID: PNT2022TMID29587

Project Name: Plasma Donor Application