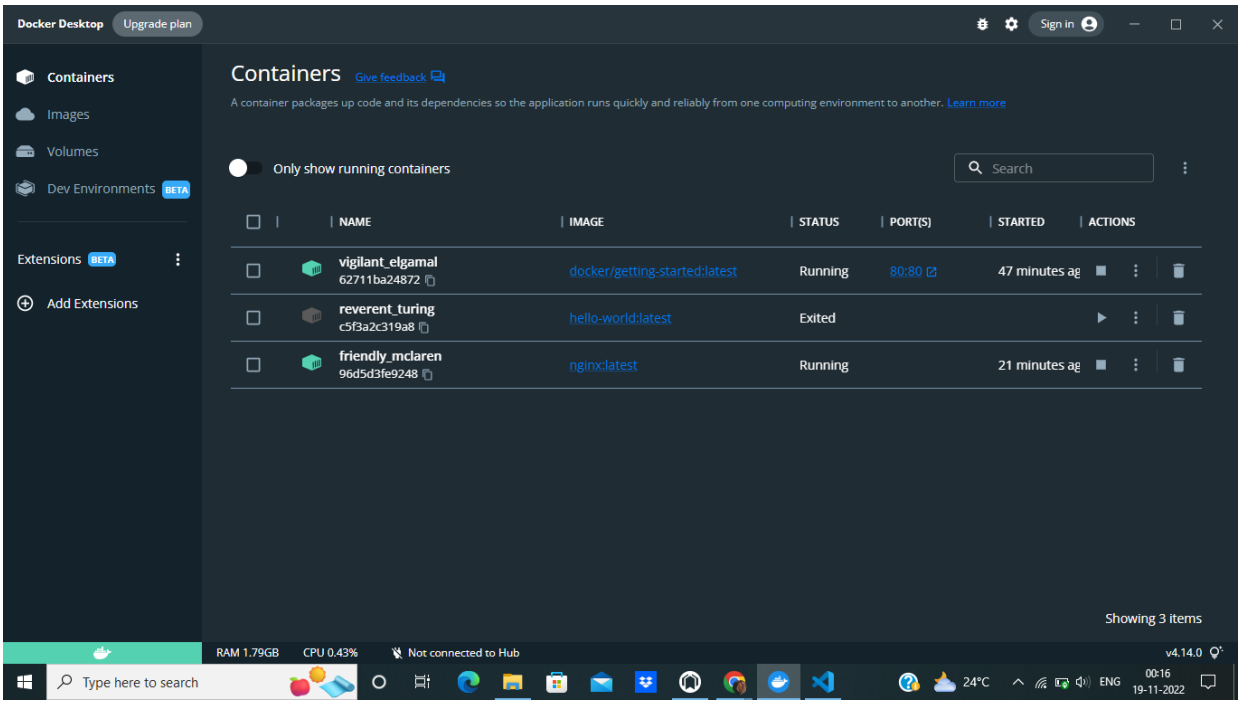
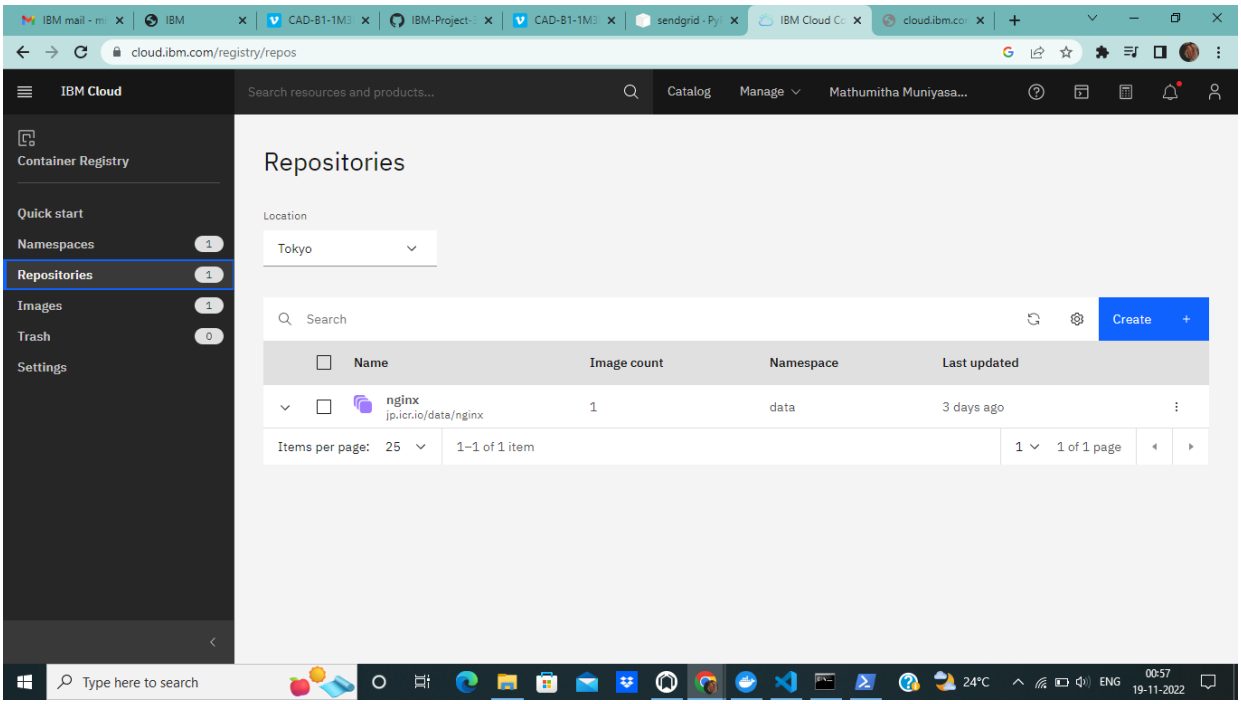
Assignment -4

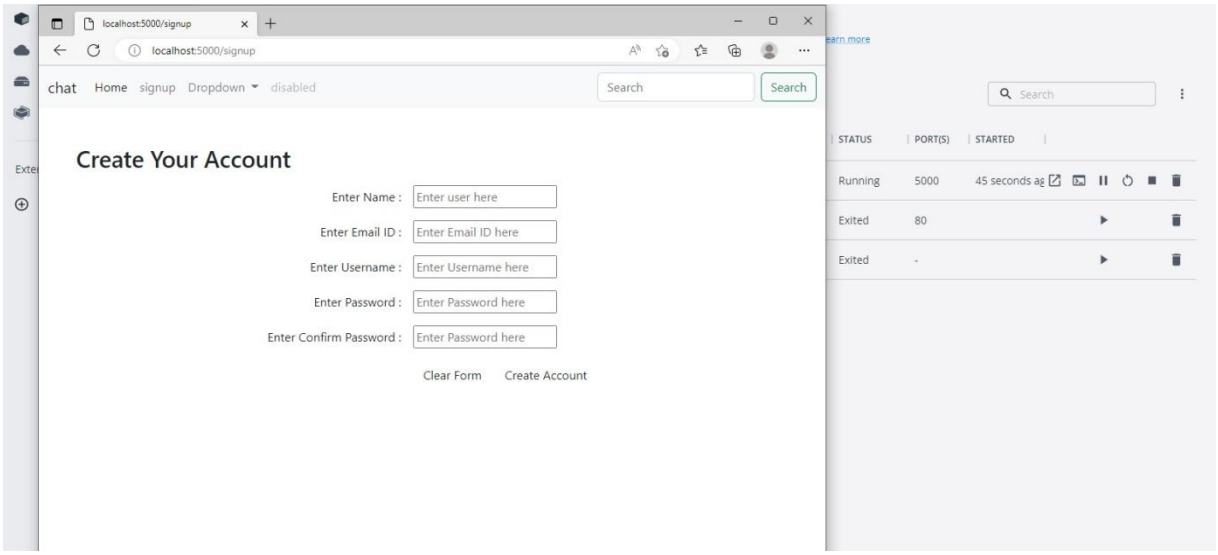
TEAM ID	PNT2022TMID48406
PROJECT NAME	NUTRITION ASSISTANT APPLICATION
STUDENT NAME	Kiruba.A

1. Pull an Image from docker hub and run it in docker playground.

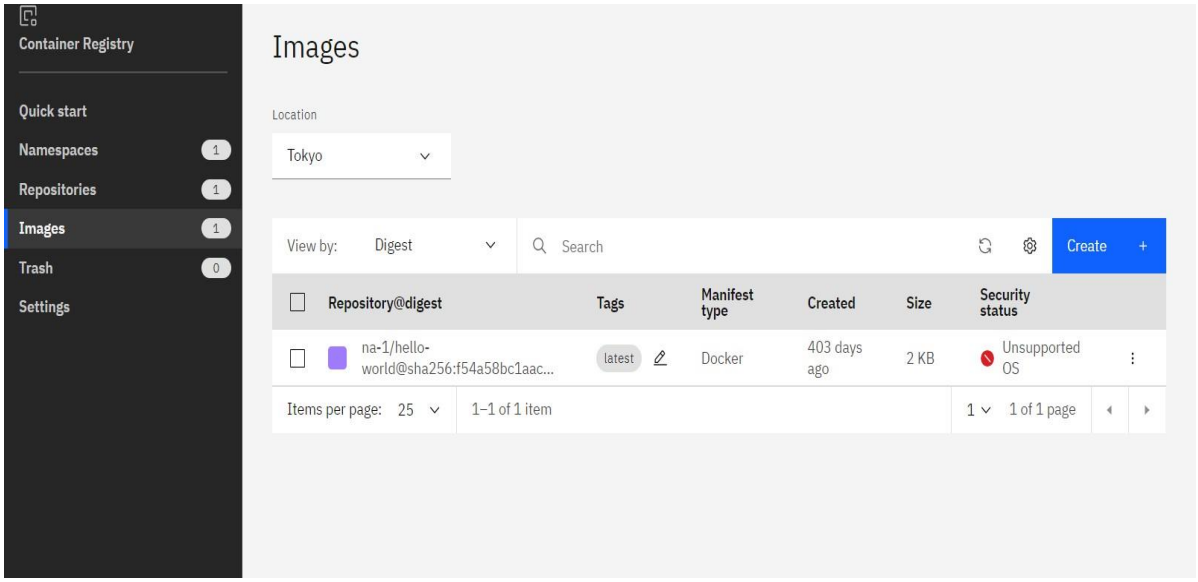
2. Create a dockerfile for the job portal / flask application and deploy it in Docker desktop application.

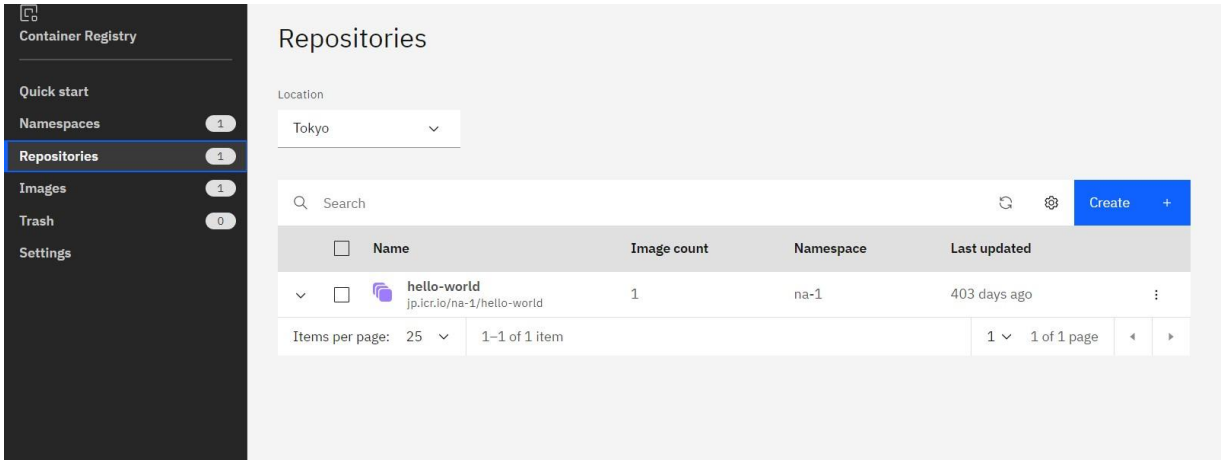



IBM Cloud
Search resources and products...
Catalog
Manage
Mathumitha Muniyasa...
Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Tokyo
Search
Create
Name
Image count
Namespace
Last updated
nginx
jp.icr.io/data/nginx
1
data
3 days ago
Items per page: 25
1–1 of 1 item
1 of 1 page
Type here to search
24°C
ENG
00:57
19-11-2022

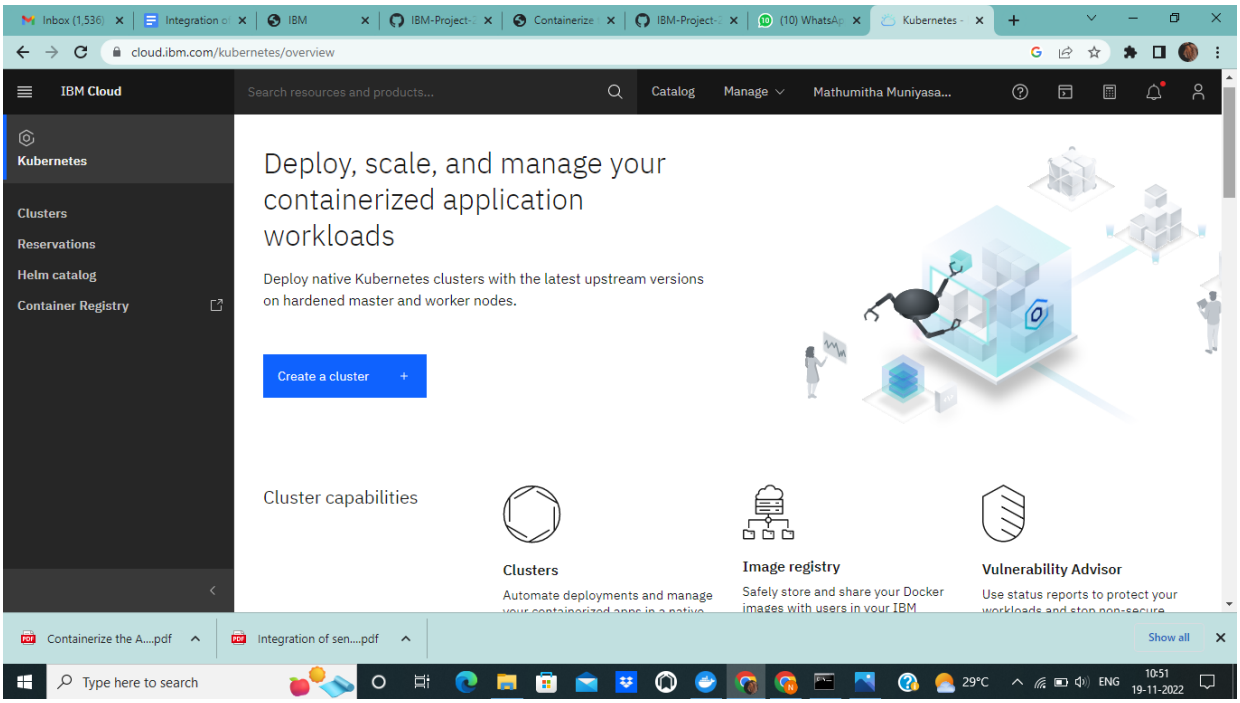


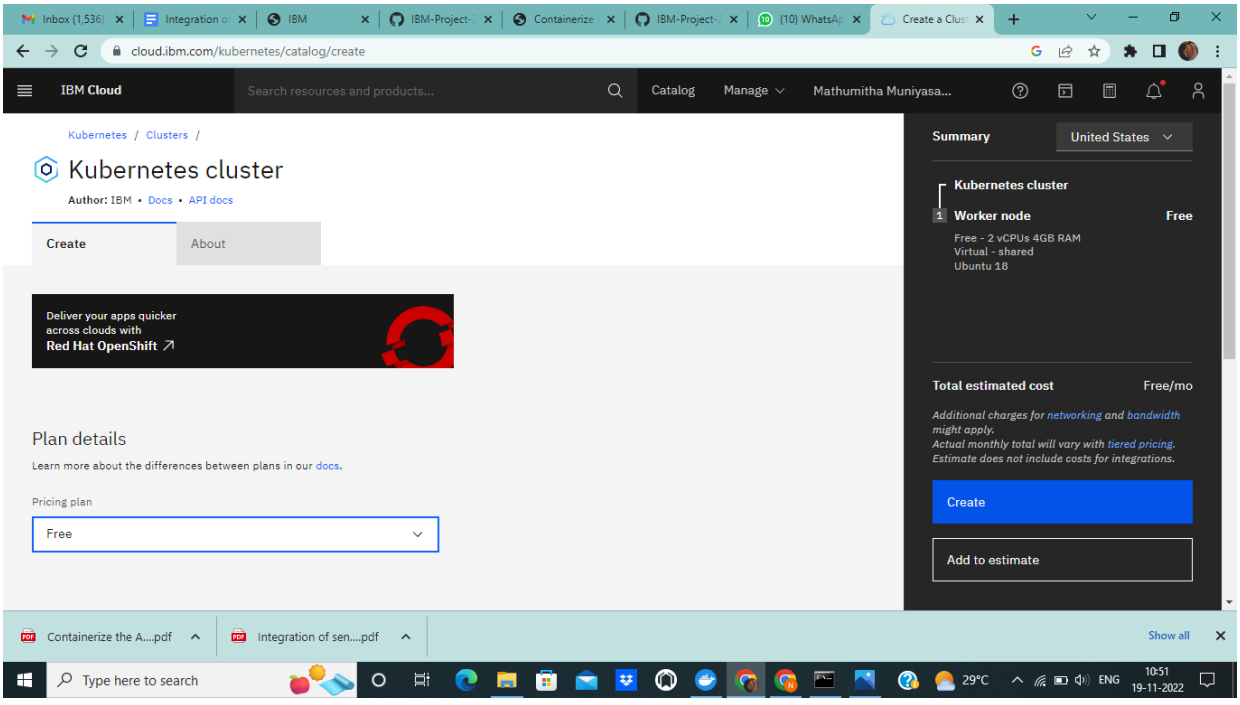
3. Create a **IBM container registry** and **push docker image** of flask application or job portal app.

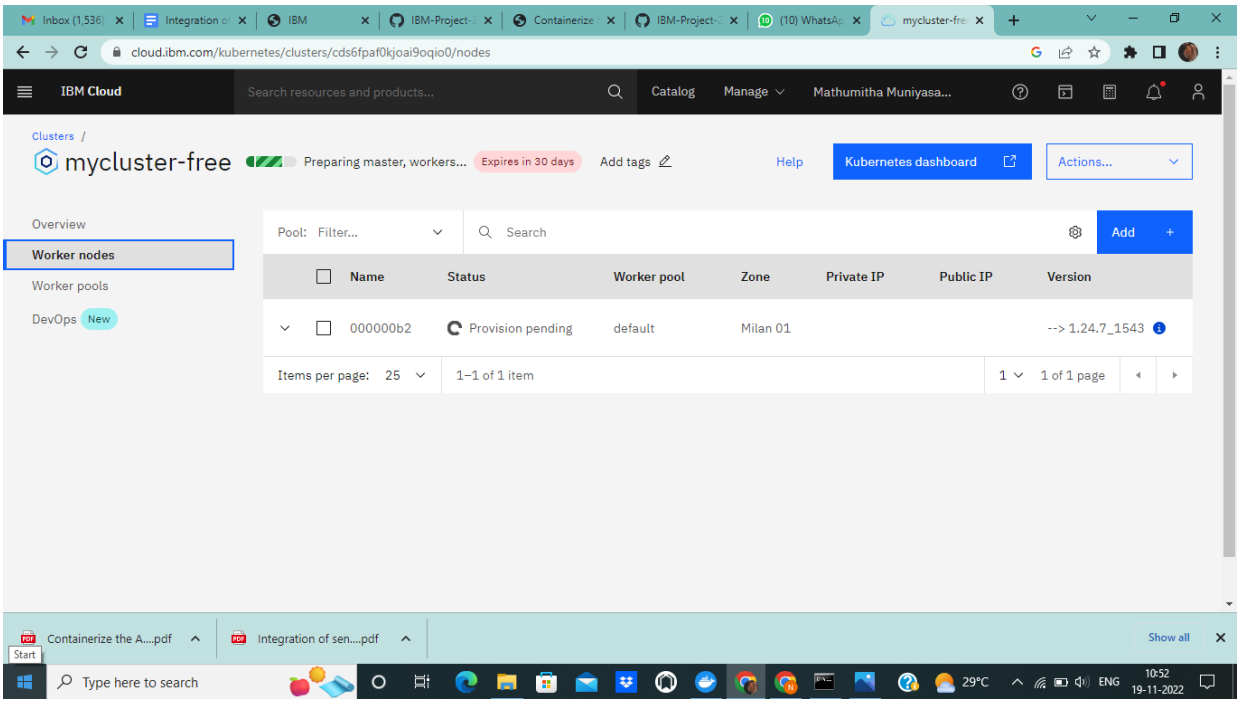


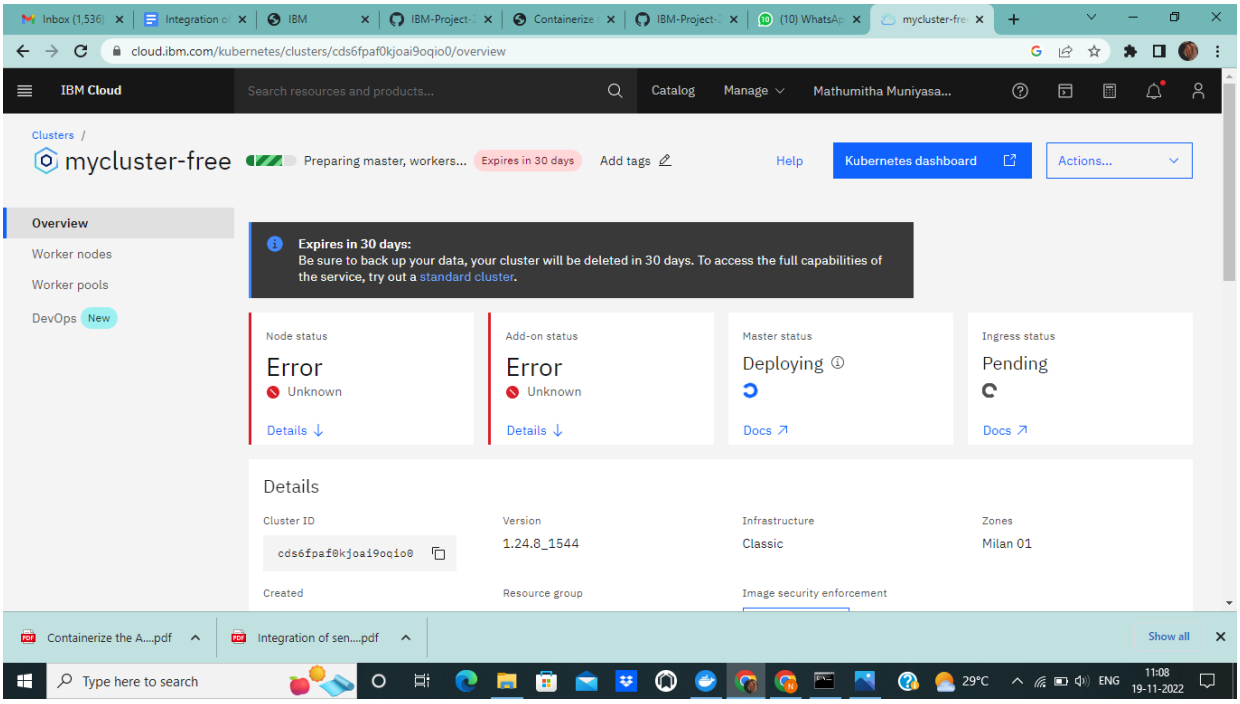


4. Create a Kubernetes cluster in IBM cloud and deploy flask application image or job portal image and also expose the same app to run in nodeport.


cloud.ibm.com/kubernetes/overview
IBM Cloud
Search resources and products...
Catalog
Manage
Mathumitha Muniyasa...
Kubernetes
Clusters
Reservations
Helm catalog
Container Registry
Deploy, scale, and manage your containerized application workloads
Deploy native Kubernetes clusters with the latest upstream versions on hardened master and worker nodes.
Create a cluster
Cluster capabilities
Clusters
Automate deployments and manage
Image registry
Safely store and share your Docker images with users in your IBM
Vulnerability Advisor
Use status reports to protect your
Containerize the A....pdf
Integration of sen....pdf
Show all
Type here to search
29°C
ENG
10:51
19-11-2022


cloud.ibm.com/kubernetes/catalog/create
IBM Cloud
Search resources and products...
Catalog
Manage
Mathumitha Muniyasa...
Kubernetes / Clusters /
Kubernetes cluster
Author: IBM • Docs • API docs
Create
About
Deliver your apps quicker across clouds with Red Hat OpenShift
Plan details
Learn more about the differences between plans in our docs.
Pricing plan
Free
Summary
United States
Kubernetes cluster
Worker node
Free
Free - 2 vCPUs 4GB RAM
Virtual - shared
Ubuntu 18
Total estimated cost
Free/mo
Additional charges for networking and bandwidth might apply.
Actual monthly total will vary with tiered pricing.
Estimate does not include costs for integrations.
Create
Add to estimate
Containerize the A....pdf
Integration of sen....pdf
Show all
Type here to search
29°C
ENG
10:51
19-11-2022


cloud.ibm.com/kubernetes/clusters/cds6fpaf0kjoai9oqio0/nodes
IBM Cloud
Search resources and products...
Catalog
Manage
Mathumitha Muniyasa...
Clusters /
mycluster-free
Preparing master, workers...
Expires in 30 days
Add tags
Help
Kubernetes dashboard
Actions...
Overview
Worker nodes
Worker pools
DevOps New
Pool: Filter...
Search
Add
Name
Status
Worker pool
Zone
Private IP
Public IP
Version
000000b2
Provision pending
default
Milan 01
--> 1.24.7_1543
Items per page: 25
1–1 of 1 item
1 of 1 page
Containerize the A....pdf
Integration of sen....pdf
Show all
Type here to search
29°C
ENG
10:52
19-11-2022


cloud.ibm.com/kubernetes/clusters/cds6fpaf0kjoai9oqio0/overview
IBM Cloud
Search resources and products...
Catalog
Manage
Mathumitha Muniyasa...
Clusters /
mycluster-free
Preparing master, workers...
Expires in 30 days
Add tags
Help
Kubernetes dashboard
Actions...
Overview
Worker nodes
Worker pools
DevOps New
Expires in 30 days:
Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.
Node status
Error
Unknown
Details
Add-on status
Error
Unknown
Details
Master status
Deploying
Docs
Ingress status
Pending
Docs
Details
Cluster ID
cds6fpaf0kjoai9oqio0
Version
1.24.8_1544
Infrastructure
Classic
Zones
Milan 01
Created
Resource group
Image security enforcement
Containerize the A....pdf
Integration of sen....pdf
Show all
Type here to search
29°C
ENG
11:08
19-11-2022