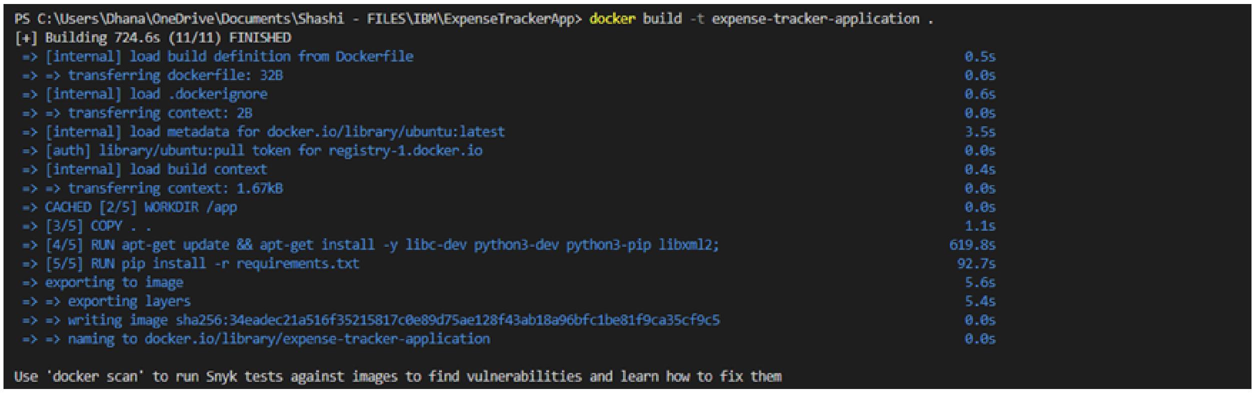
DEPLOYMENT OF APP IN IBM CLOUD

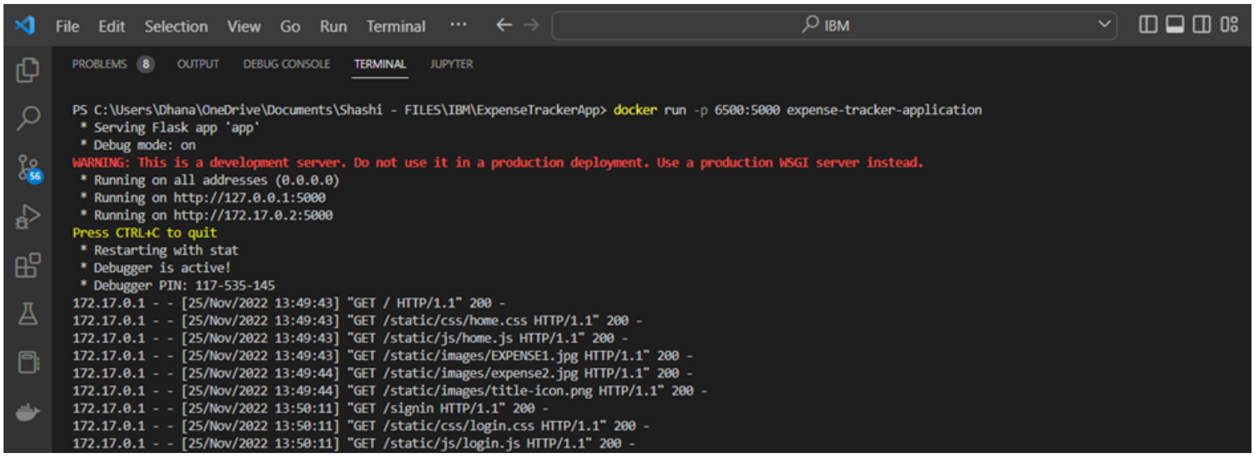
TEAM ID	**PNT2022TMID35287**
PROJECT NAME	**Personal Expense Tracker Application**

CONTAINERIZE THE APP

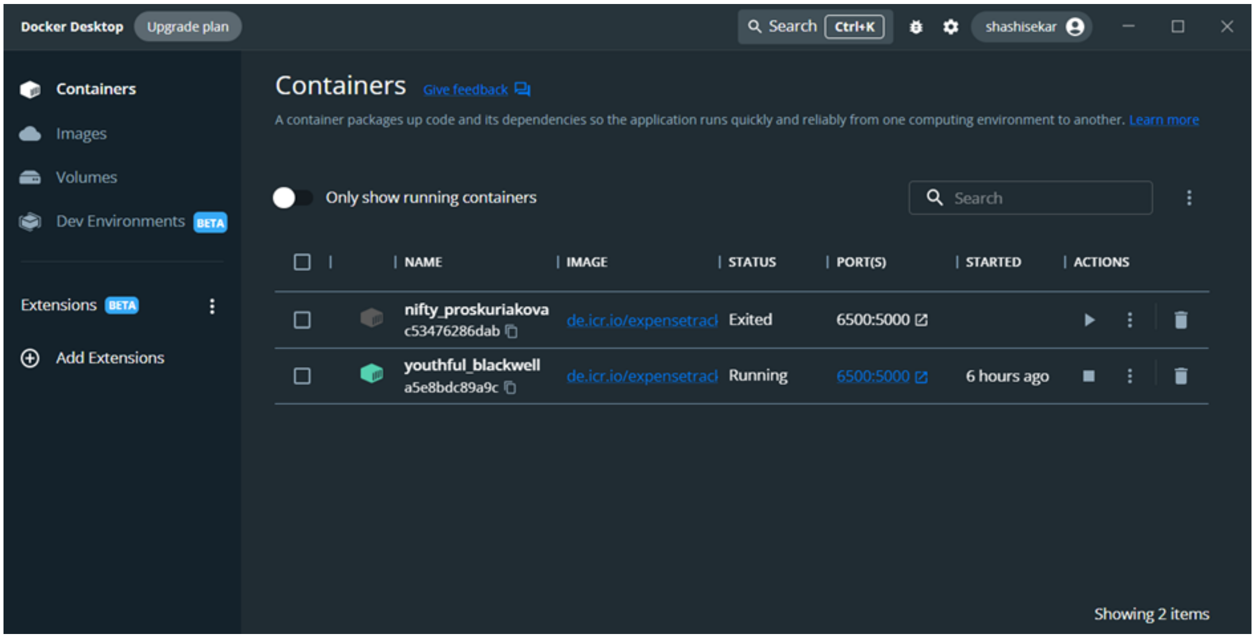


```
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker build -t expense-tracker-application .
[+] Building 724.6s (11/11) FINISHED
 => [internal] load build definition from Dockerfile                                                             0.5s
 => => transferring dockerfile: 32B                                                                              0.0s
 => [internal] load .dockerignore                                                                                0.6s
 => => transferring context: 2B                                                                                  0.0s
 => [internal] load metadata for docker.io/library/ubuntu:latest                                                 3.5s
 => [auth] library/ubuntu:pull token for registry-1.docker.io                                                    0.0s
 => [internal] load build context                                                                                0.4s
 => => transferring context: 1.67kB                                                                              0.0s
 => CACHED [2/5] WORKDIR /app                                                                                    0.0s
 => [3/5] COPY . .                                                                                               1.1s
 => [4/5] RUN apt-get update && apt-get install -y libc-dev python3-dev python3-pip libxml2;                   619.8s
 => [5/5] RUN pip install -r requirements.txt                                                                   92.7s
 => exporting to image                                                                                           5.6s
 => => exporting layers                                                                                          5.4s
 => => writing image sha256:34eadec21a516f35215817c0e89d75ae128f43ab18a96bfc1be81f9ca35cf9c5                     0.0s
 => => naming to docker.io/library/expense-tracker-application                                                   0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
```



```
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker run -p 6500:5000 expense-tracker-application
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://172.17.0.2:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 117-535-145
172.17.0.1 - - [25/Nov/2022 13:49:43] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [25/Nov/2022 13:49:43] "GET /static/css/home.css HTTP/1.1" 200 -
172.17.0.1 - - [25/Nov/2022 13:49:43] "GET /static/js/home.js HTTP/1.1" 200 -
172.17.0.1 - - [25/Nov/2022 13:49:43] "GET /static/images/EXPENSE1.jpg HTTP/1.1" 200 -
172.17.0.1 - - [25/Nov/2022 13:49:44] "GET /static/images/expense2.jpg HTTP/1.1" 200 -
172.17.0.1 - - [25/Nov/2022 13:49:44] "GET /static/images/title-icon.png HTTP/1.1" 200 -
172.17.0.1 - - [25/Nov/2022 13:50:11] "GET /signin HTTP/1.1" 200 -
172.17.0.1 - - [25/Nov/2022 13:50:11] "GET /static/css/login.css HTTP/1.1" 200 -
172.17.0.1 - - [25/Nov/2022 13:50:11] "GET /static/js/login.js HTTP/1.1" 200 -
```



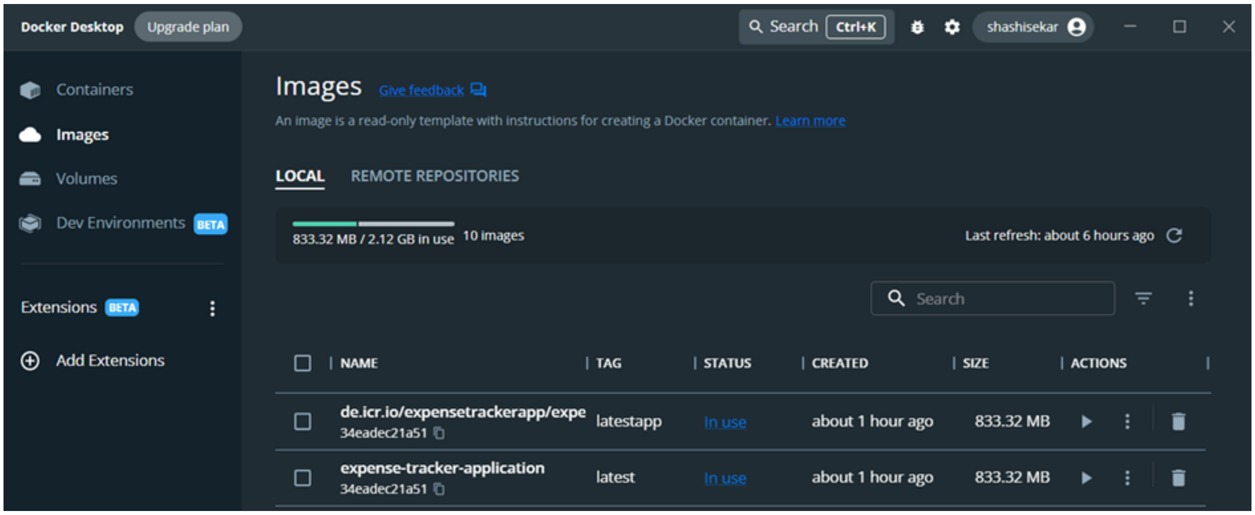
Containers

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more

○ Only show running containers

□	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
□	nifty_proskuriakova c53476286dab	de.icr.io/expensetracl	Exited	6500:5000		
□	youthful_blackwell a5e8bdc89a9c	de.icr.io/expensetracl	Running	6500:5000	6 hours ago	

Showing 2 items



Images

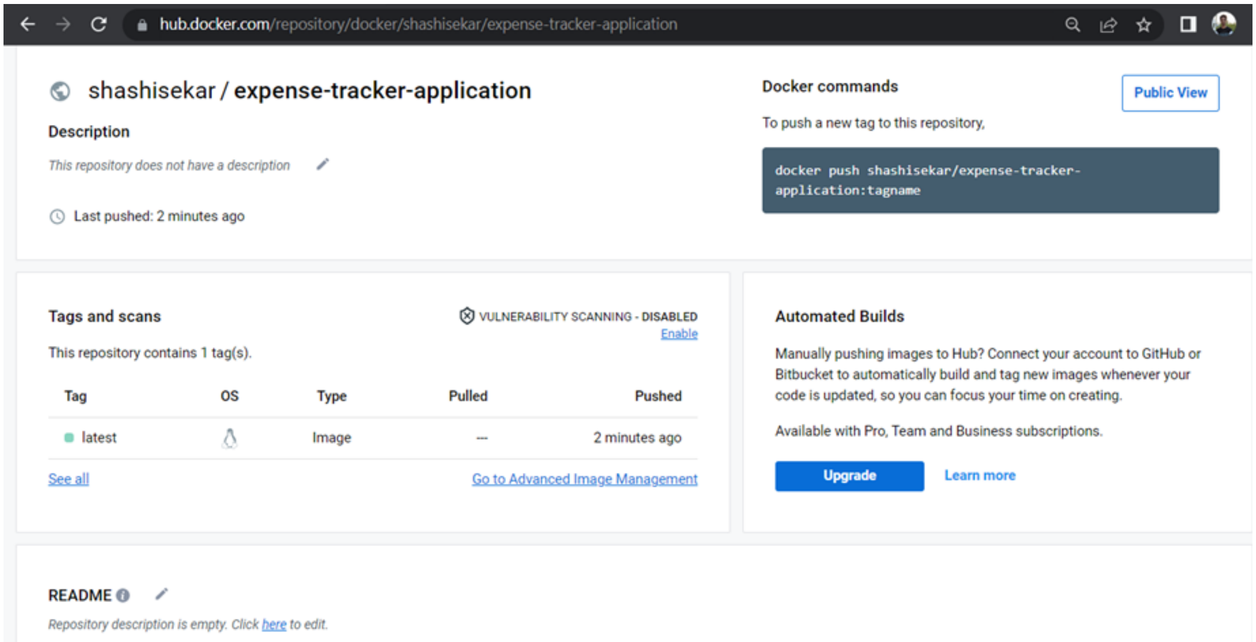
An image is a read-only template with instructions for creating a Docker container. Learn more

LOCAL REMOTE REPOSITORIES

833.32 MB / 2.12 GB in use 10 images

Last refresh: about 6 hours ago

□	NAME	TAG	STATUS	CREATED	SIZE	ACTIONS
□	de.icr.io/expensetrackerapp/expe 34eadec21a51	latestapp	In use	about 1 hour ago	833.32 MB	
□	expense-tracker-application 34eadec21a51	latest	In use	about 1 hour ago	833.32 MB	



hub.docker.com/repository/docker/shashisekar/expense-tracker-application

shashisekar / expense-tracker-application

Description

This repository does not have a description

Last pushed: 2 minutes ago

Docker commands

Public View

To push a new tag to this repository,

```
docker push shashisekar/expense-tracker-
application:tagname
```

Tags and scans

VULNERABILITY SCANNING - DISABLED
Enable

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	---	2 minutes ago

See all

Go to Advanced Image Management

Automated Builds

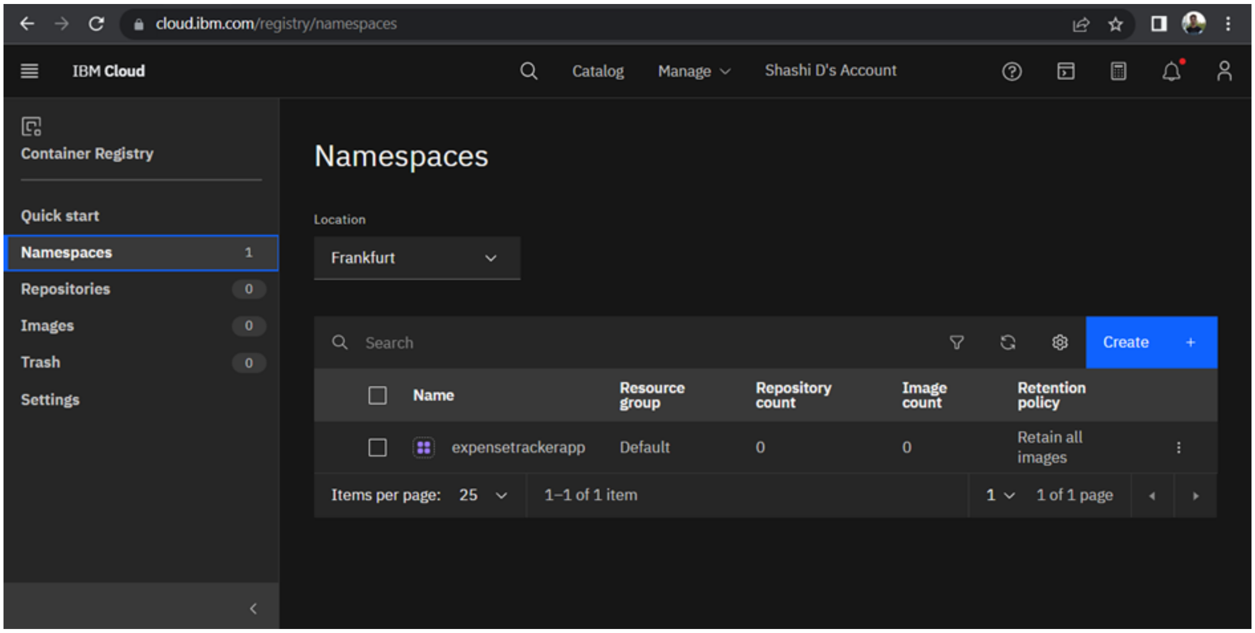
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions.

README

Repository description is empty. Click here to edit.

UPLOAD IMAGE TO IBM CONTAINER REGISTRY



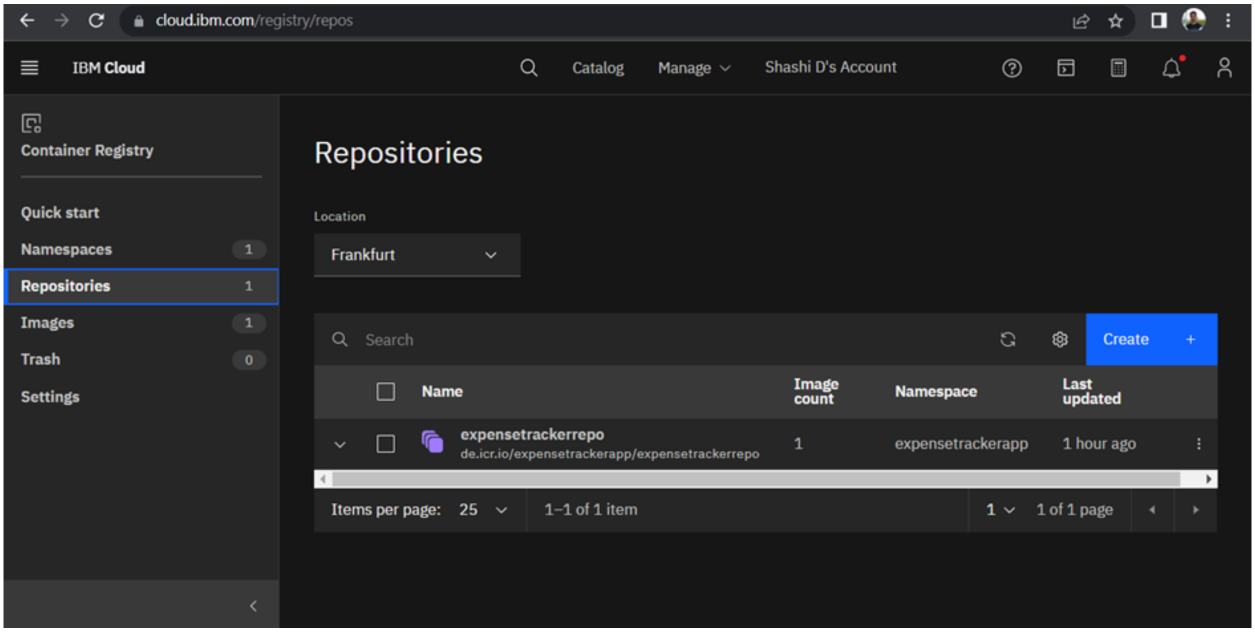
cloud.ibm.com/registry/namespaces

Namespaces

Location: Frankfurt

	Name	Resource group	Repository count	Image count	Retention policy
□	expensetrackerapp	Default	0	0	Retain all images

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

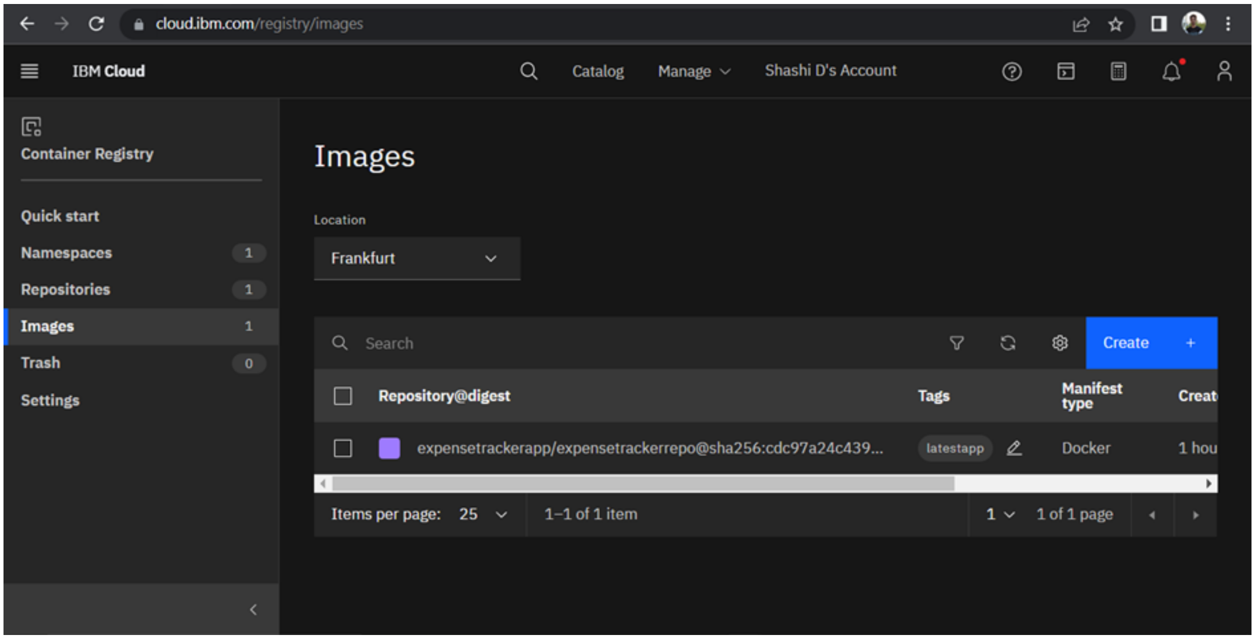


Repositories

Location: Frankfurt

	Name	Image count	Namespace	Last updated
□	expensetrackerrepo de.icr.io/expensetrackerapp/expensetrackerrepo	1	expensetrackerapp	1 hour ago

Items per page: 25 | 1–1 of 1 item | 1 | 1 of 1 page



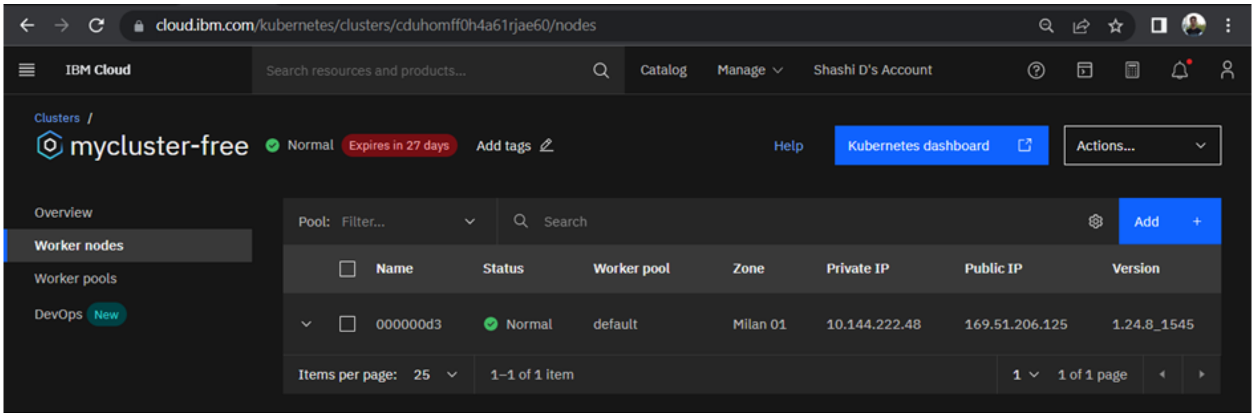
Images

Location: Frankfurt

□	Repository@digest	Tags	Manifest type	Creat
□	expensetrackerapp/expensetrackerrepo@sha256:cdc97a24c439...	latestapp	Docker	1 hou

Items per page: 25 | 1–1 of 1 item | 1 | 1 of 1 page

DEPLOY IN KUBERNETES



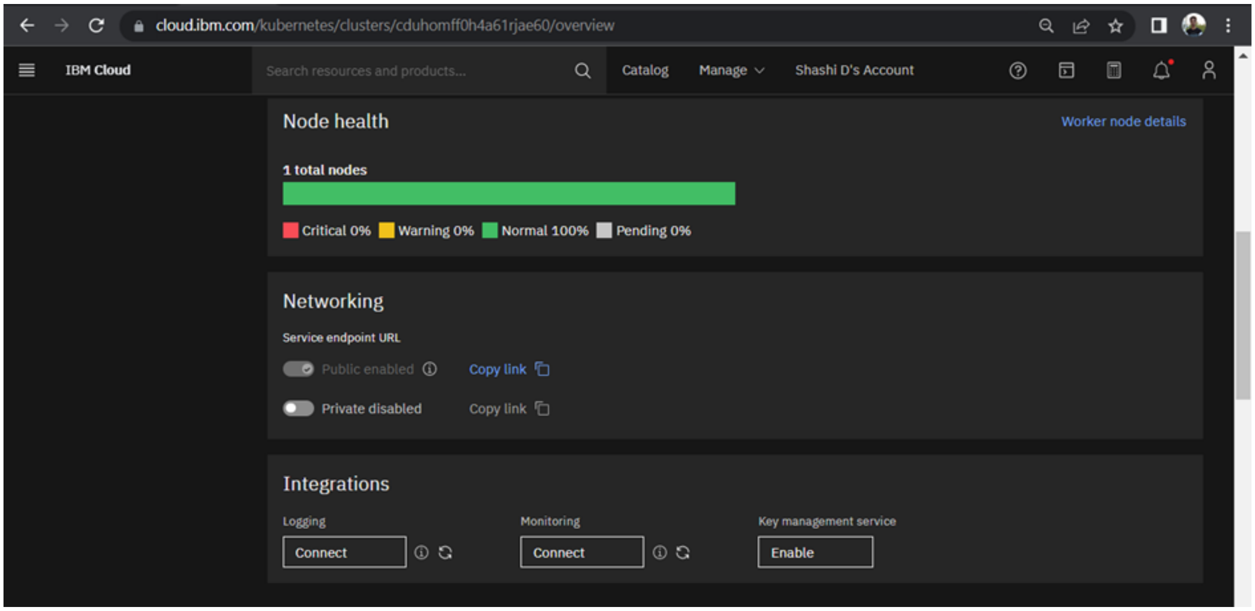
cloud.ibm.com/kubernetes/clusters/cduhomff0h4a61rjae60/nodes

Clusters /

mycluster-free ● Normal Expires in 27 days Add tags

□	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
□	000000d3	● Normal	default	Milan 01	10.144.222.48	169.51.206.125	1.24.8_1545

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



cloud.ibm.com/kubernetes/clusters/cduhomff0h4a61rjae60/overview

Node health

Worker node details

1 total nodes

🟥 Critical 0% 🟨 Warning 0% 🟩 Normal 100% ⬜ Pending 0%

Networking

Service endpoint URL

Public enabled Copy link

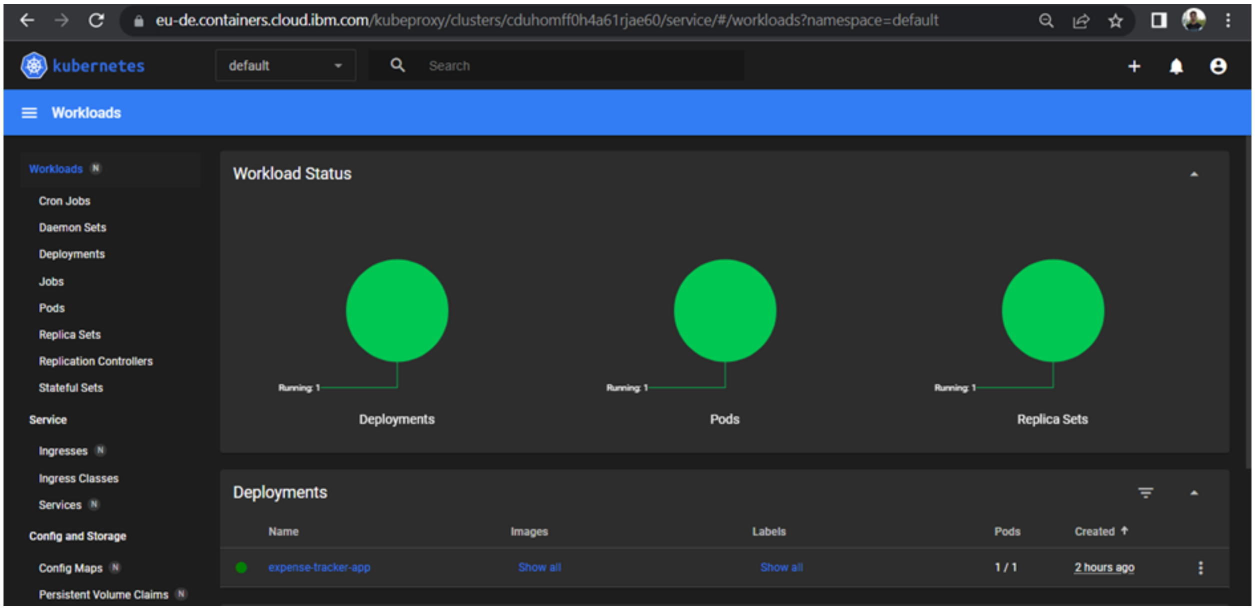
Private disabled Copy link

Integrations

Logging: Connect

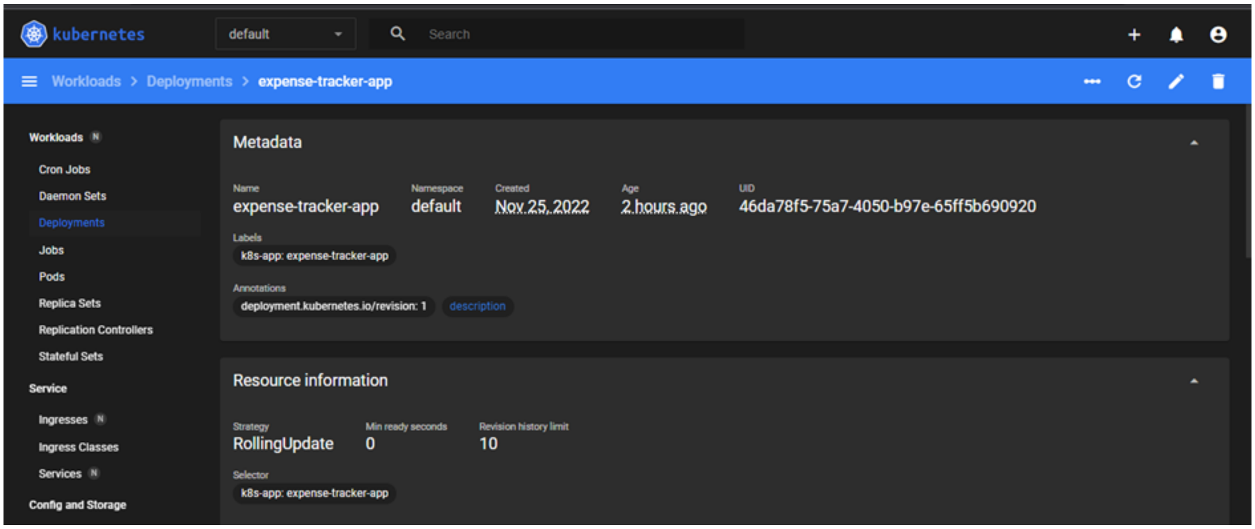
Monitoring: Connect

Key management service: Enable



Deployments

	Name	Images	Labels	Pods	Created ↑
●	expense-tracker-app	Show all	Show all	1 / 1	2 hours ago



Metadata

Name	Namespace	Created	Age	UID
expense-tracker-app	default	Nov 25, 2022	2 hours ago	46da78f5-75a7-4050-b97e-65ff5b690920

Labels

k8s-app: expense-tracker-app

Annotations

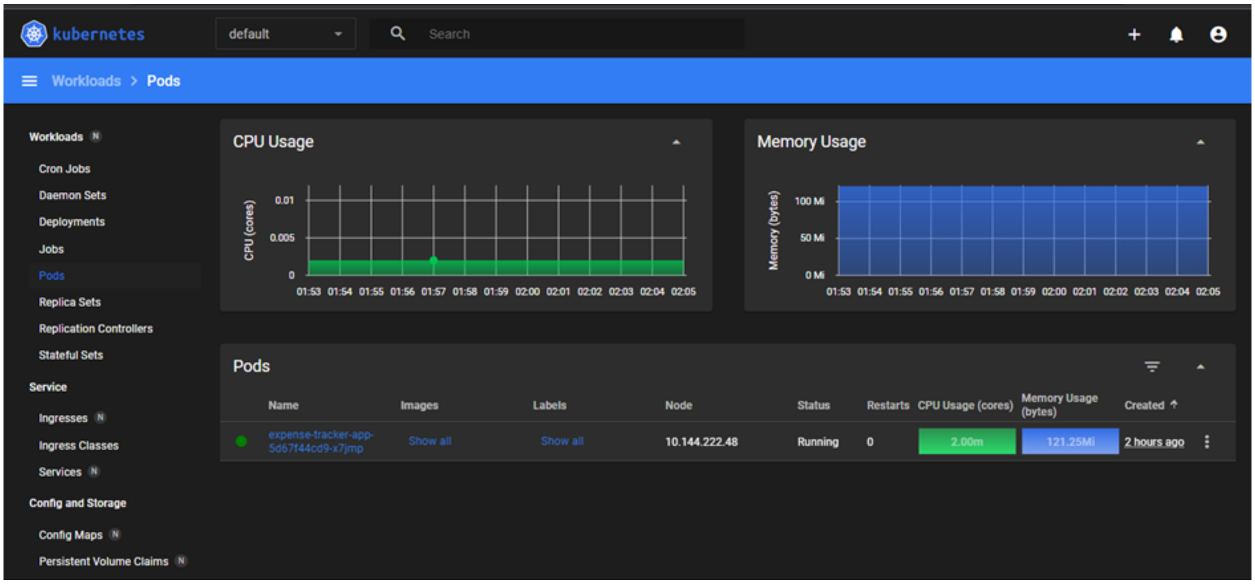
deployment.kubernetes.io/revision: 1 description

Resource information

Strategy	Min ready seconds	Revision history limit
RollingUpdate	0	10

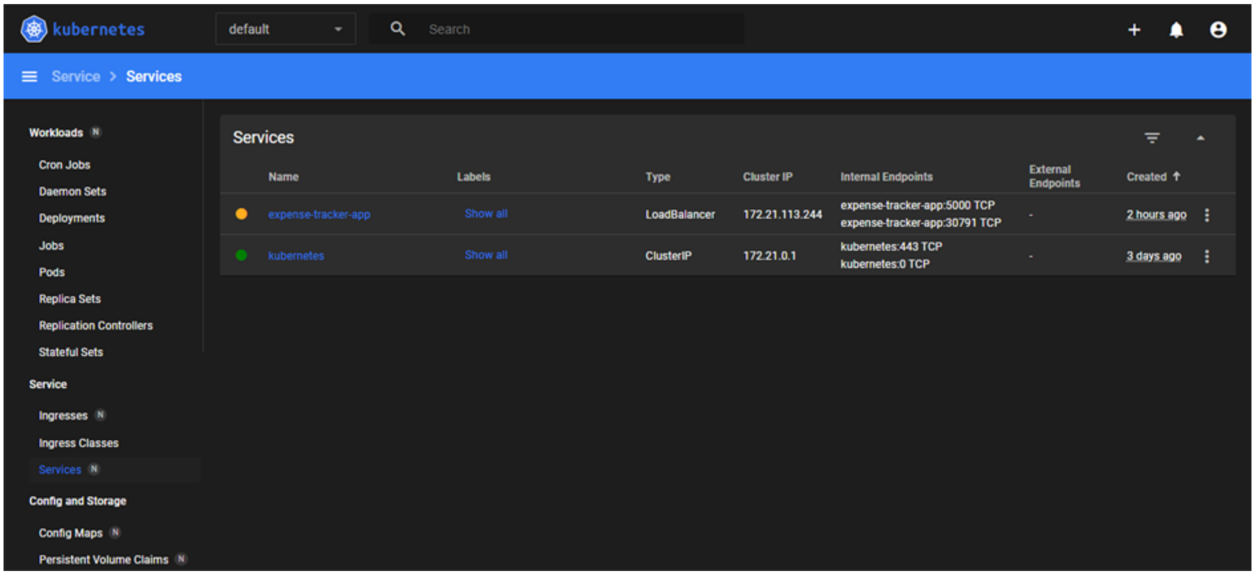
Selector

k8s-app: expense-tracker-app



Pods

	Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created ↑
●	expense-tracker-app-5d67f44cd9-x7jmp	Show all	Show all	10.144.222.48	Running	0	2.00m	121.25Mi	2 hours ago



Services

	Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created ↑
●	expense-tracker-app	Show all	LoadBalancer	172.21.113.244	expense-tracker-app:5000 TCP expense-tracker-app:30791 TCP	-	2 hours ago
●	kubernetes	Show all	ClusterIP	172.21.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	3 days ago