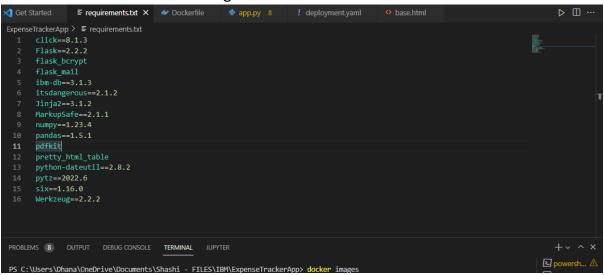
PROJECT DEVELOPMENT PHASE

SPRINT - 4

TEAM ID	PNT2022TMID35287
PROJECT NAME	Personal Expense Tracker Application

BUILDING DOCKER CONTAINER IMAGE

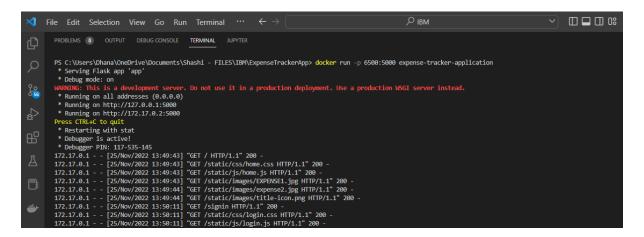
REQUIREMENT File to build image



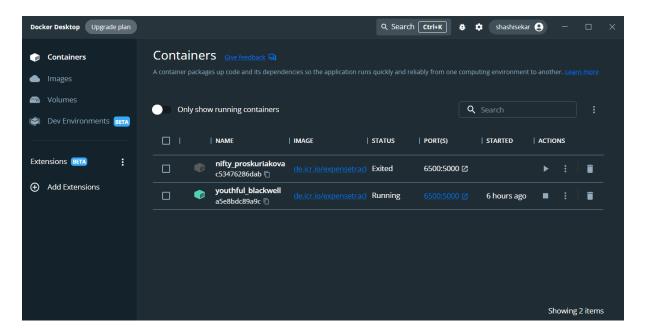
DOCKER File to build image

Building the container image

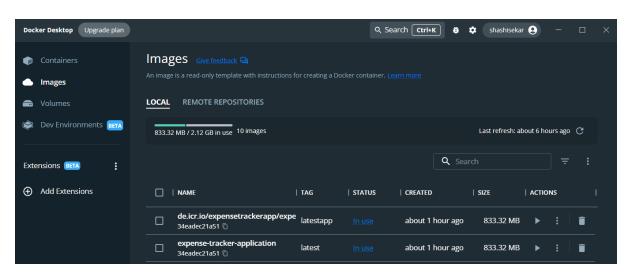
Running the container



List of CONTAINERS



List of IMAGES



```
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

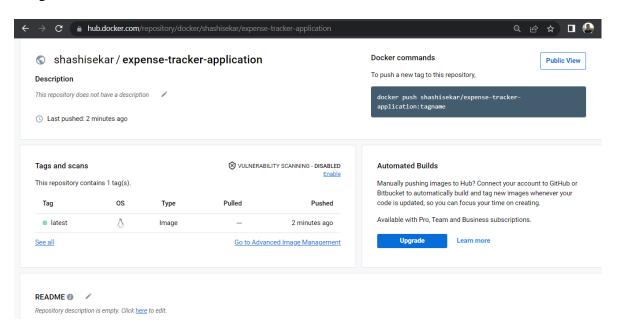
expense-tracker-application latest 34eadec21a51 55 minutes ago 833MB shashis-ekar/assignment latest 47154170ef431 2 days ago 951MB sassignment latest 47154170ef431 2 days ago 951MB sign. r.of/kube-apiserver 41.52. 2 98ea1ee3cfd 2 noorths ago 128MB sign. r.of/kube-scheduler 41.52. 2 ca8ea1ee3cfd 2 noorths ago 50.64MB sign. r.of/kube-controller-manager 41.25.2 dbfceb93c69b 2 months ago 711kB
```

PUSHING THE IMAGE INTO DOCKER HUB

```
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker login
Authenticating with existing credentials...
login Succeeded

logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn mone at https://docs.docker.com/ge/access-tokens/
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker tag expense-tracker-app shashisekar/expense-tracker-app
Error response from daemon: No such image: expense-tracker-app> iatest
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker tag expense-tracker-app shashisekar/expense-tracker-application
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker tag expense-tracker-application shashisekar/expense-tracker-application
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker push shashisekar/expense-tracker-application
Using default tag: latest
The push refers to repository [docker.io/shashisekar/expense-tracker-application]
19881flea@8: Pushed
didac@2/dS8: Pushed
didac@2/dS8: Pushed
didac@2/dS8: Pushed
didac@2/dS8: Pushed
didac@2/dS6: Mounted from shashisekar/personal-expense-tracker-app
14807@acc656: Mounted from shashisekar/personal-expense-tracker-app
```

Image on DOCKER HUB



IBM CLOUD CONTAINER REGISTRY

IBM Cloud Login

```
Targeted account Shashi D's Account (3dd395deaa66432a8f1a01f81faa00c6)

API endpoint: https://cloud.ibm.com
Region: eu-de
User: 2019103600@smartinternz.com
Account: Shashi D's Account (3dd395deaa66432a8f1a01f81faa00c6)

Resource group: Cr API endpoint:
Org:
Org: API endpoint:
Org: RESOURCE_GROUP'
CF API endpoint:
Org: Space:
```

Adding Namespace

```
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> ibmcloud cr namespace-add expensetrackerapp
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted.

Adding namespace 'expensetrackerapp' in resource group 'Default' for account Shashi D's Account in registry de.icr.io...

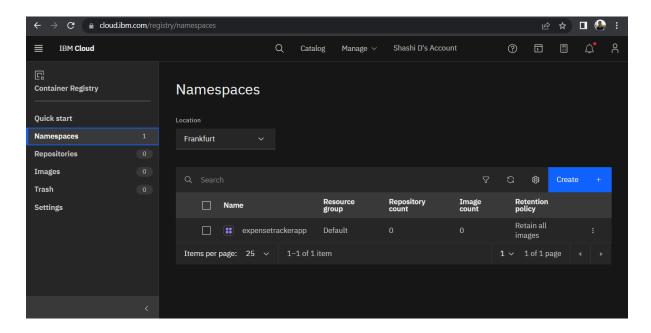
Successfully added namespace 'expensetrackerapp'

OK
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> ibmcloud cr namespace-list -v
Listing namespaces for account 'Shashi D's Account' in registry 'de.icr.io'...

Namespace
Resource Group Created
Expensetrackerapp
Default 22 seconds ago

OK
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp>
```

Namespace on the Container Registry

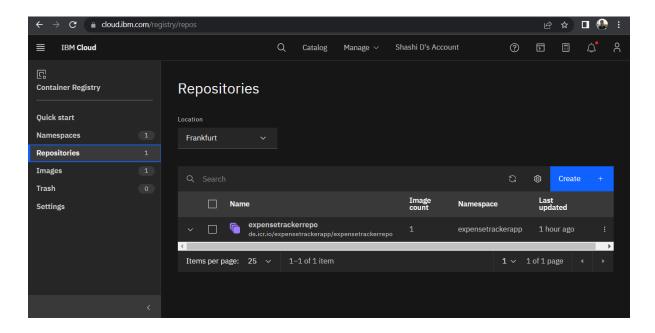


Pushing the image into the repository

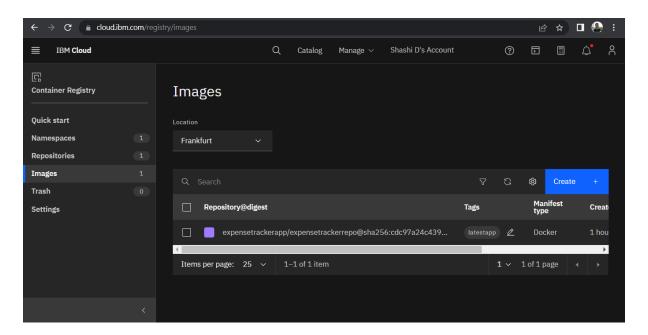
```
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker tag shashisekar/expense-tracker-app de.icr.io/expensetrackerapp/expensetrackerrepo:latestapp
Error response from daemon: No such image: shashisekar/expense-tracker-app:latest
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker tag shashisekar/expense-tracker-application de.icr.io/expensetrackerapp/expensetrackerrepo:latestapp
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> ibmcloud cr login --client docker
logging 'docker' in to 'de.icr.io'...
logged in to 'de.icr.io'...

OK
PS C:\Users\Dhana\OneDrive\Documents\Shashi - FILES\IBM\ExpenseTrackerApp> docker push de.icr.io/expensetrackerapp/expensetrackerrepo:latestapp
The push refers to repository [de.icr.io/expensetrackerapp/expensetrackerrepo]
19881fleadag: Pushed
0didae2rd595: Bushed
1932013920decd: Pushed
1932013920de
```

Repositories on the Registry

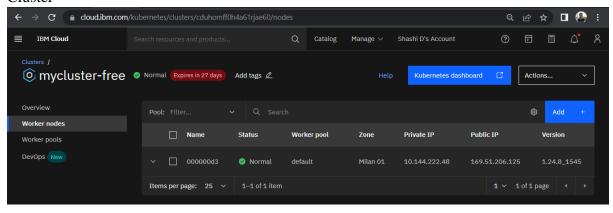


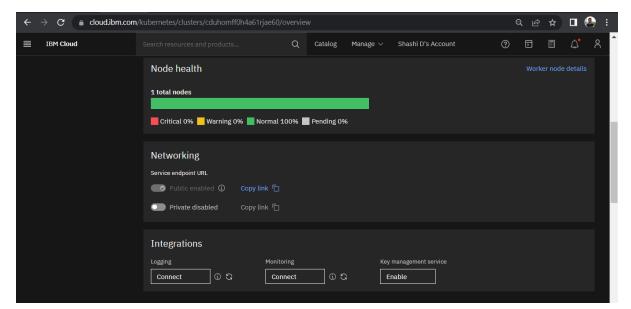
Images on the Registry



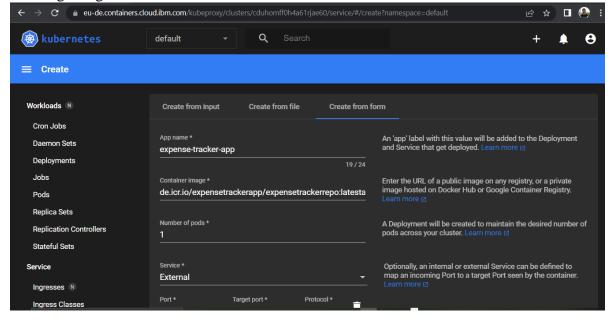
KUBERNETES CLUSTERS

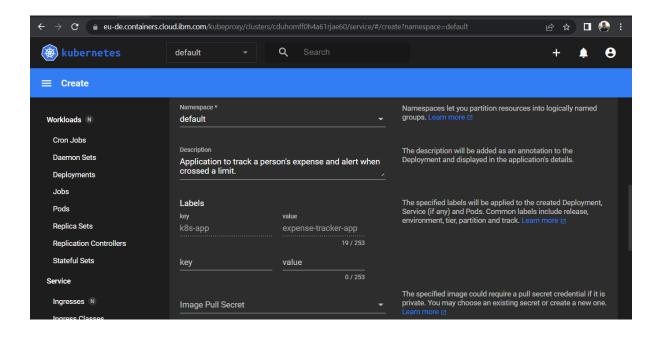
Cluster





Creating using Form

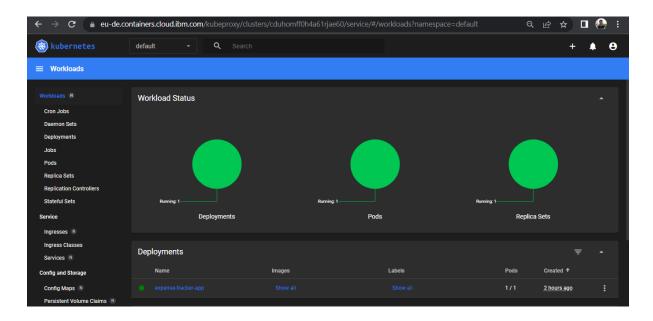




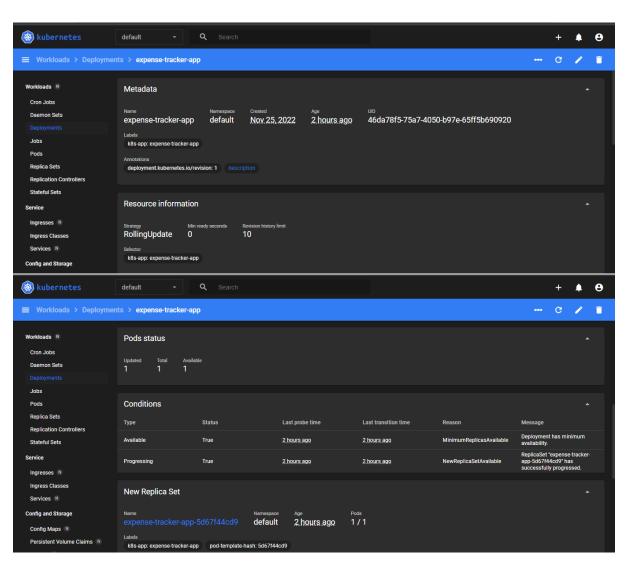
YAML File

apiVersion: apps/v1 kind: Deployment metadata: name: expense-tracker-app namespace: default labels: k8s-app: expense-tracker-app annotations: description: Application to track a person's expense and alert when crossed a limit. spec: replicas: 1 selector: matchLabels: k8s-app: expense-tracker-app template: metadata: name: expense-tracker-app labels: k8s-app: expense-tracker-app annotations: description: Application to track a person's expense and alert when crossed a limit. spec: containers: - name: expense-tracker-app image: de.icr.io/expensetrackerapp/expensetrackerrepo:latestapp securityContext: privileged: false

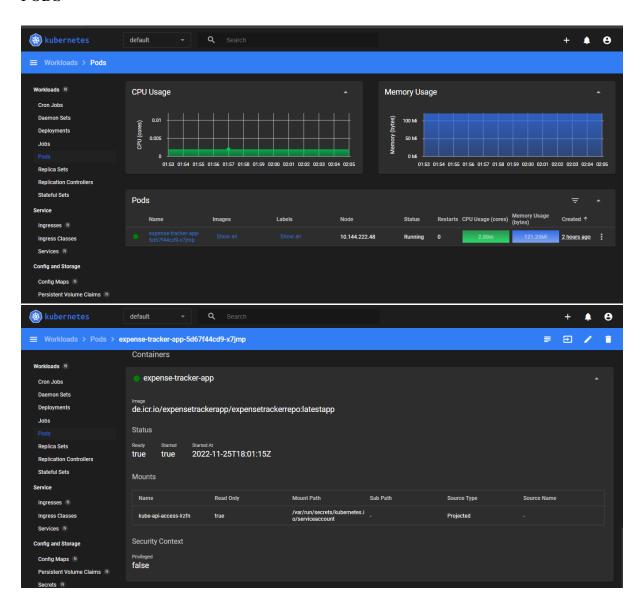
Workload



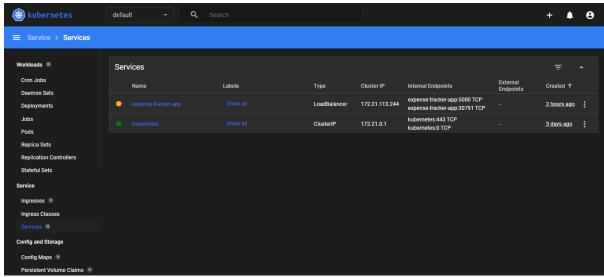
Deployments

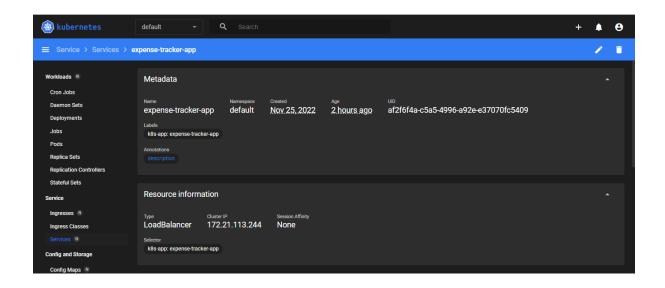


PODS



SERVICES





OUTPUT - http://169.51.206.125:30791

