

Sprint-4 Project Development Phase

Date	19 November 2022
Team ID	PNT2022TMID15216
Project Name	Project - Personal Expense Tracker

Sprint 3 details:

- Created the docker image for frontend and backend
- Uploaded the image to the docker hub
- Created kubernetes cluster in IBM Cloud
- Created the pods from the image • Created service for the pod •

Image Links:

- Frontend:

<https://hub.docker.com/repository/docker/swathy2412/spency-frontend>

- Backend:

<https://hub.docker.com/repository/docker/swathy2412/spency-api>

- Dockerfile:

Backend:

```
FROM python:3.8-slim-buster

WORKDIR /app

COPY . .

RUN apt-get update && apt-get install -y gcc libxml2 libxslt-dev
```

```
RUN apt-get install -y vim
```

```
RUN python -m pip install --upgrade pip
```

```
RUN pip3 install -r requirements.txt
```

```
CMD ["python3", "-m", "gunicorn", "-w", "4", "--thread", "2", "-b",  
"0.0.0.0:5000", "wsgi:app"]
```

Frontend:

```
# syntax=docker/dockerfile:1
```

```
FROM node:16
```

```
WORKDIR /usr/src/app
```

```
COPY package*.json ./
```

```
RUN npm ci --only=production
```

```
COPY . .
```

```
CMD [ "npm", "start" ]
```

Kubernetes yaml:

```
apiVersion: apps/v1
```

```
kind: Deployment

metadata:

  name: spency-api-deployment

  labels:

    app: spency-api

spec:

  replicas: 1

  selector:

    matchLabels:

      app: spency-api

  template:

    metadata:

      labels:

        app: spency-api

    spec:

      containers:

        - name: spency-api

          image: swathy2412/spency-api:stable-1.0.0 imagePullPolicy:
            Always

          ports:

            - containerPort: 5000
```

```
        protocol: TCP
---
apiVersion: apps/v1
kind: Deployment
metadata:

  name: spency-frontend-deployment
```

```
  labels:

    app: spency-frontend
spec:

  replicas: 1
  selector:

    matchLabels:

      app: spency-frontend
  template:

    metadata:

      labels:

        app: spency-frontend
    spec:

      containers:

        - name: spency-frontend

          image: swathy2412/spency:stable-1.0.0

          imagePullPolicy: Always

          ports:

            - containerPort: 3000
              protocol: TCP
```

```
---
apiVersion: v1
kind: Service
metadata:
  name: spency-api-service
  labels:
    app: spency-api-service
spec:
```

```
  ports:
  - port: 5000
    protocol: TCP
    targetPort: 5000
  selector:
    app: spency-api
  type: NodePort
```

```
---
apiVersion: v1
kind: Service
metadata:
  name: spency-frontend-service
  labels:
    app: spency-frontend-service
spec:
  ports:
  - port: 3000
```

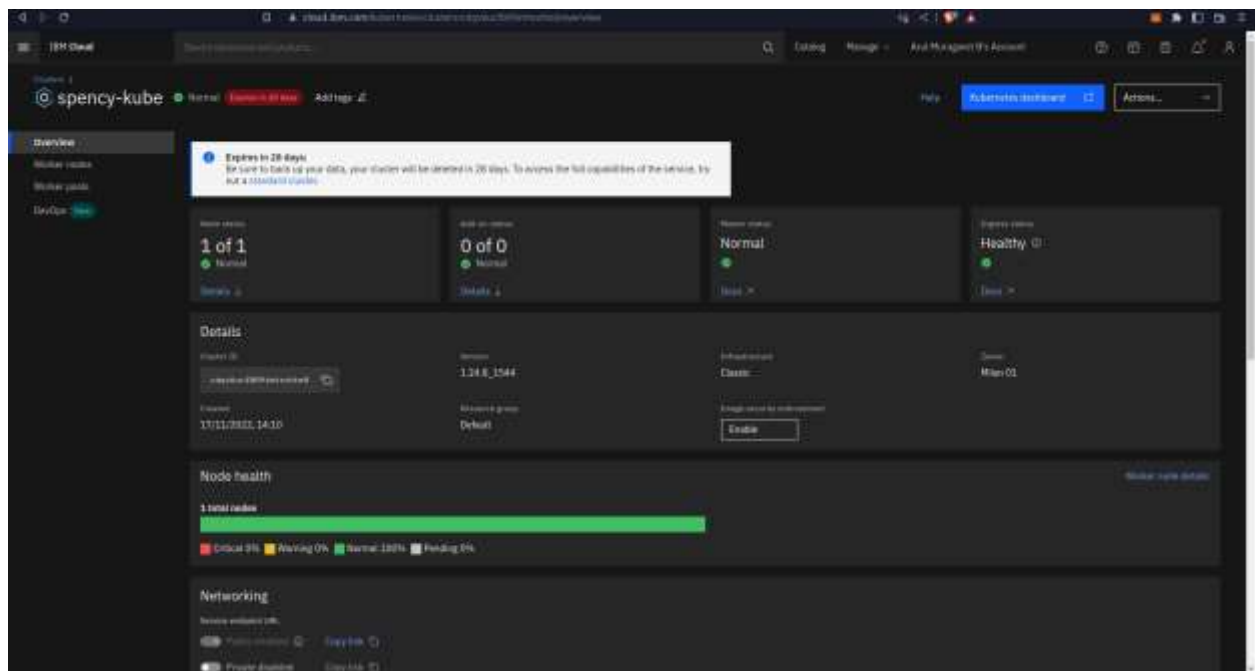
```
protocol: TCP
targetPort: 3000

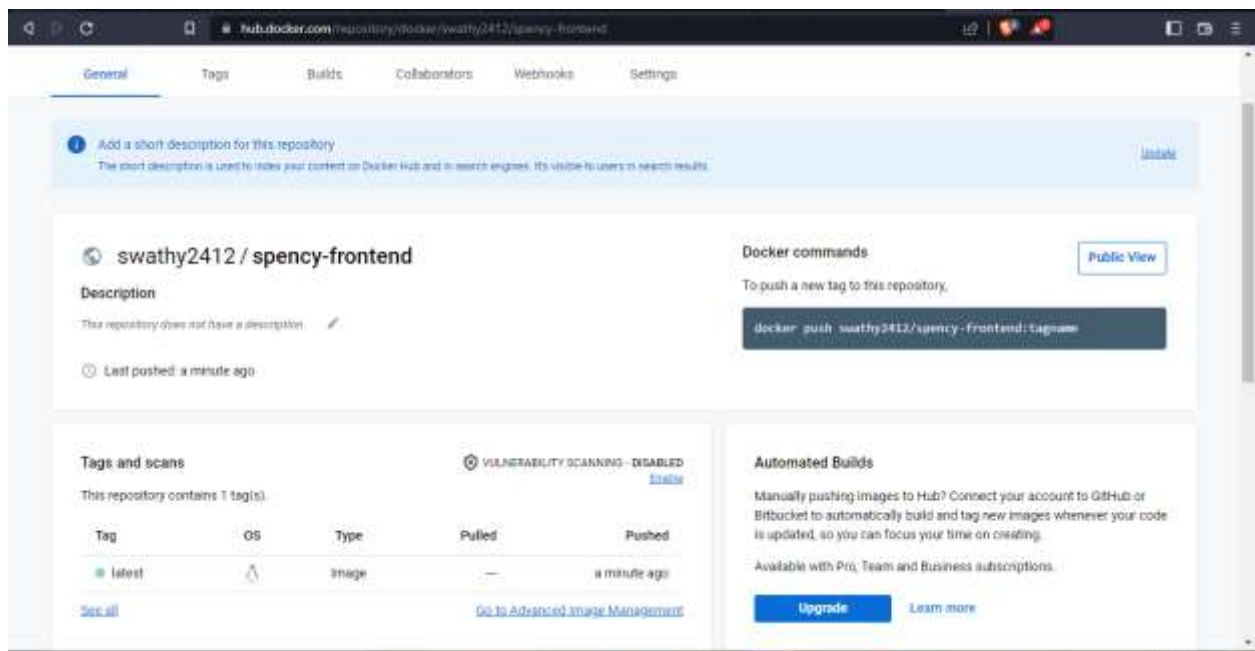
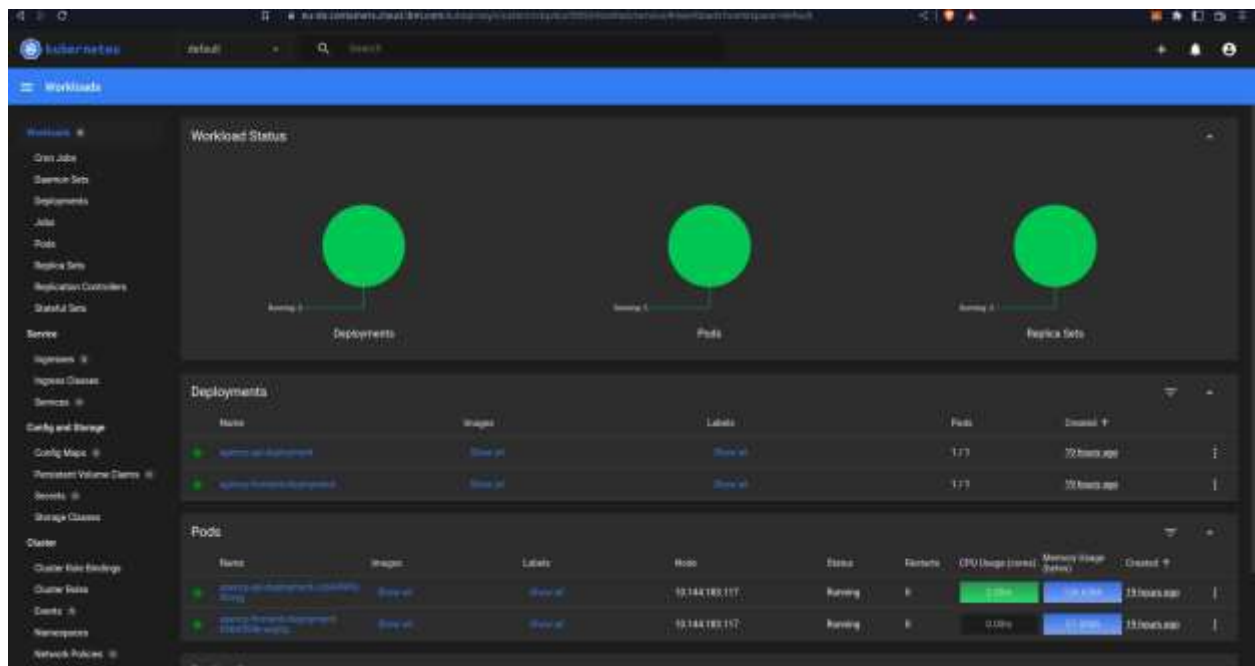
selector:

  app: spency-frontend

type: NodePort
```

Screenshot





hub.docker.com/repository/docker/swathy2412/spency-api

Add a short description for this repository

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

Update

swathy2412 / spency-api

Description

This repository does not have a description

Last pushed: a day ago

Docker commands

To push a new tag to this repository,

`docker push swathy2412/spency-api:tagname`

Public View

Tags and scans

VULNERABILITY SCANNING - DISABLED

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		image	—	a day ago

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