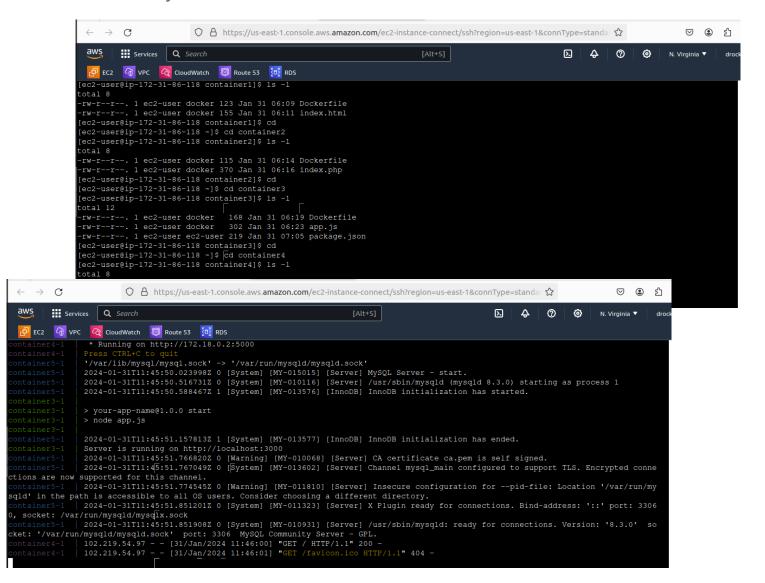
- 1. Create 5 custom container with 5 different default pages
- 2. Using Docker Compose deploy these 5 containers on port 81, 82, 83, 84 and 85 respectively

## Dockerfile

```
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                         이 A https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standa 다
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        Services Q Search
                                                                                                                                          N. Virginia ▼
 🗗 EC2 🏻 VPC 🤇 CloudWatch 🐻 Route 53 🔯 RDS
container3
  build:
    context: ./container3
dockerfile: Dockerfile
   ports:
      - "83:3000"
 container4:
     context:
               ./container4
    dockerfile: Dockerfile
     - "84:5000" # Map host port 84 to container port 5000
 container5
   image: mysql:latest
   ports:
     MYSQL_ROOT_PASSWORD: password
docker-compose.yml" 38L, 632B
```

In the directory container1 container2 container3 container4 container5



```
mkdir container1 container2 container3 container4 container5
cd container1
vi Dockerfile
# Container 1: Nginx serving a static website
FROM nginx:latest
WORKDIR /usr/share/nginx/html
COPY index.html.
EXPOSE 80
vi index.html
<!-- index.html -->
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to Container 1</title>
</head>
<body>
  <h1>Hello from Nginx!</h1>
</body>
</html>
.....
cd container2
vi Dockerfile
# Container 2: Apache serving a PHP application
FROM php:apache
WORKDIR /var/www/html
```

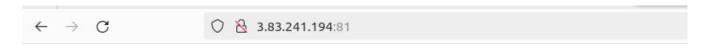
```
<body>
  <h1>Welcome to Container 2!</h1>
  This is a PHP application served by Apache.
  <?php echo "PHP version: " . phpversion(); ?>
</body>
</html>
cd container3
vi Dockerfile
# Container 3: Node.js application using Express framework
FROM node:latest
WORKDIR /app
COPY package.json.
RUN npm install
COPY..
EXPOSE 3000
CMD ["npm", "start"]
vi app.js
// app.js
const express = require('express');
const app = express();
const PORT = 3000;
app.get('/', (req, res) => {
 res.send('Welcome to Container 3! This is a Node.js application using Express.');
});
app.listen(PORT, () => {
 console.log(`Server is running on http://localhost:${PORT}`);
});
vi package.json
 "name": "your-app-name",
 "version": "1.0.0",
 "description": "Your application description",
 "main": "app.js",
```

```
"scripts": {
  "start": "node app.js"
 },
 "dependencies": {
  "express": "^4.17.1"
}
cd container4
vi Dockefile
# Container 4: Flask application
FROM python:latest
WORKDIR /app
# Install Flask
RUN pip install Flask
# Copy application files
COPY..
EXPOSE 5000
CMD ["python", "app.py"]
vi app.py
# app.py
from flask import Flask
app = Flask(__name__)
@app.route('/')
def hello():
  return 'Welcome to Container 4! This is a Flask application.'
if __name__ == '__main__':
  app.run(host='0.0.0.0', port=5000)
.....
```

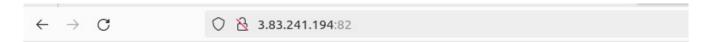
## vi docker-compose.yml

```
version: '3'
services:
 container1:
  build:
   context: ./container1
   dockerfile: Dockerfile
  ports:
   - "81:80"
 container2:
  build:
   context: ./container2
   dockerfile: Dockerfile
  ports:
   - "82:80"
 container3:
  build:
   context: ./container3
   dockerfile: Dockerfile
  ports:
   - "83:3000"
 container4:
  build:
   context: ./container4
   dockerfile: Dockerfile
  ports:
   - "84:5000" # Map host port 84 to container port 5000
 container5:
  image: mysql:latest
  ports:
   - "85:3306"
  environment:
   MYSQL_ROOT_PASSWORD: password
docker-compose build
```

docker-compose up

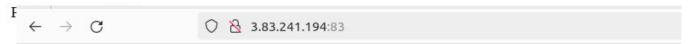


## **Hello from Nginx!**



## **Welcome to Container 2!**

This is a PHP application served by Apache.  $\,$ 



Welcome to Container 3! This is a Node.js application using Express.



Welcome t