

Trade Master Application II

Problem Statement:

← Classroom

Logging and Metrics
Trade Master Application II

Problem

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Problem statement

After implementing the **Trade management system** with effective logging capabilities. Now, you are tasked with creating images for **Grafana** and **Prometheus** using docker.

▼ Tasks:-

1. Add the following dependencies to your pom.xml file.

▼ Reference image

<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-actuator</artifactId>
</dependency>

▼ Reference image

<dependency>
<groupId>io.micrometer</groupId>
<artifactId>micrometer-registry-prometheus</artifactId>
<scope>runtime</scope>
</dependency>

2. Run the application and check if the "localhost:8081/actuator/prometheus" endpoint is created or not.

Use the provided code below to finish the configuration for docker-compose.yml, prometheus.yml and grafana.yml present in a package name **monitoring**.

▼ Reference image

docker-compose.yml ×

1 version: '3.7'
2
3 services:
4 prometheus:
5 image: prom/prometheus:v2.35.0
6 container_name: prometheus
7 volumes:
8 - ./prometheus/prometheus.yml:/etc/prometheus/prometheus.yml
9 ports:
10 - 9090:9090
11
12 grafana:
13 image: grafana/grafana:9.5.2
14 container_name: grafana
15 ports:
16 - 3000:3000
17 restart: unless-stopped
18 volumes:
19 - ./grafana/provisioning/datasources:/etc/grafana/provisioning/datasources

```
YAML datasources.yml ×
1  apiVersion: 1
2  datasources:
3    - name: Prometheus
4      type: prometheus
5      access: proxy
6      url: http://prometheus:9090
7      isDefault: true
8
```

▼ Reference image

```
YAML prometheus.yml ×
1  ▼ global:
2    scrape_interval: 15s
3    evaluation_interval: 15s
4
5    rule_files:
6
7  ▼ scrape_configs:
8    ▼ - job_name: 'prometheus'
9
10     scrape_interval: 5s
11     ▼ static_configs:
12       - targets: ['127.0.0.1:9090']
13
14     - job_name: 'my-spring-actuator'
15       metrics_path: '/actuator/prometheus'
16       scrape_interval: 5s
17       ▼ static_configs:
18         - targets: ['Your_IP:8081']
```

4. After adding the configuration open the terminal in the path containing our docker-compose.yml file and give the command **docker compose up**.

5. Images for **Prometheus** and **Grafana** will be created and will be used later for monitoring purposes.

► Special Instructions for submitting the solution: