Module 10: Monitoring using Prometheus and Grafana

Demo Document - 1

edureka!



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Demo - 1: Monitoring a Docker Service using Prometheus

Create a Docker service for cAdvisor and redis

Syntax: vi compose.yml

```
version: '3.2'
services:
  cadvisor:
    image: gcr.io/cadvisor/cadvisor:latest
    container name: cadvisor
    ports:
    - 8087:8080
    volumes:
    - /:/rootfs:ro
    - /var/run:/var/run:rw
    - /sys:/sys:ro
    - /var/lib/docker/:/var/lib/docker:ro
    depends_on:
    - redis
  redis:
    image: redis:latest
    container name: redis
    ports:
    - 6379:6379
```

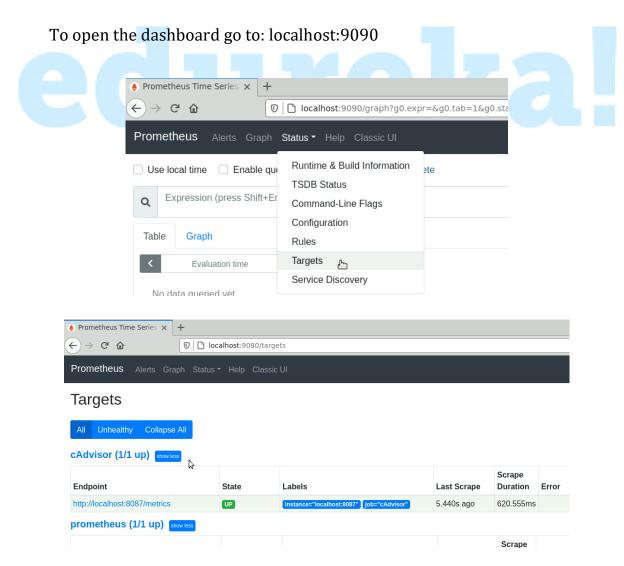
Now, add cAdvisor as one of your targets in your Prometheus.yml config file
 Syntax: sudo vi /opt/prometheus-2.27/prometheus.yml

```
- job_name: 'cAdvisor'
    scrape_interval: 5s
    static_configs:
        - targets: ['localhost:8087']
```

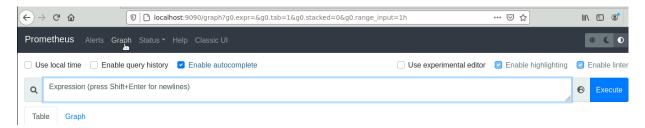
Restart the Prometheus service

Syntax: sudo systemctl restart prometheus.service

 Now, we can check if the new target is live on our Prometheus dashboard by opening the dashboard and checking targets



• We can check the different metrics in graphical format using the graph tab



Add some cadvisor expression like memory usage by containers to check the total memory usage

