Module 1: Monitoring using Prometheus and Grafana

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edureka!



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Demo – 1: Monitoring a Docker Service using Prometheus

We will use cAdvisor in this demo to collect the container metrics

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
```

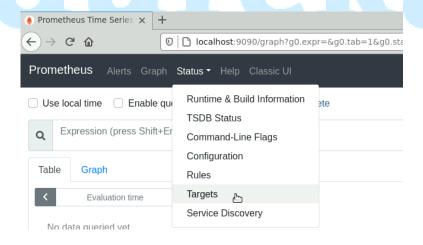
Now, add cAdvisor as one of your targets in your Prometheus.yml config file
 Syntax: sudo vi /opt/prometheus-2.27/prometheus.yml

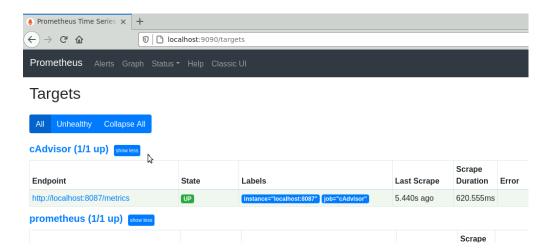
Restart the Prometheus service

Syntax: sudo systemctl restart prometheus.service

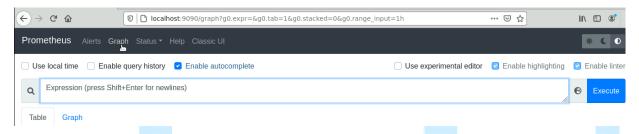
 Now, we can check if the new target is live on our Prometheus dashboard by opening the dashboard and checking targets

To open the dashboard go to: localhost:9090





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

