Cadvisor: It is a container advisor. It provides containers resource usage,performance characteristics of running containers

Launch t2.micro amazon ec2 instance

* Yum install docker –y
* Systemctl status docker –y
* Systemctl start docker
* Systemctl enable docker
* mkdir prometheusgrafana
* Cd prometheusgrafana
* Ls
* Vi prometheus.yml

|  |
| --- |
|  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

global:

scrape\_interval: 5s

external\_labels:

monitor: 'Monitoring'

scrape\_configs:

- job\_name: 'prometheus'

static\_configs:

- targets: ['13.233.199.108:9090']

- job\_name: 'node-exporter'

static\_configs:

- targets: ['13.233.199.108:9100']

- job\_name: 'cAdvisor'

static\_configs:

- targets: ['13.233.199.108:8080']

> vi docker-compose.yml

|  |
| --- |
|  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

image: prom/prometheus:latest

volumes:

- ./prometheus.yml:/etc/prometheus/prometheus.yml

command:

- '--config.file=/etc/prometheus/prometheus.yml'

ports:

- 9090:9090

node-exporter:

image: prom/node-exporter

ports:

- 9100:9100

cadvisor:

image: google/cadvisor:latest

ports:

- 8080:8080

volumes:

- /:/rootfs:ro

- /var/run:/var/run:rw

- /sys:/sys:ro

- /var/lib/docker/:/var/lib/docker:ro

grafana:

image: grafana/grafana

user: "1000"

environment:

- GF\_SECURITY\_ADMIN\_PASSWORD=password

depends\_on:

- prometheus

ports:

- 3000:3000

* docker-compose up –d
* To install docker compose:
* sudo curl -L "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
* sudo chmod +x /usr/local/bin/docker-compose
* sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
* docker-compose --version

docker-compose up –d

Now containers will get ready

Go to browser

Ip:9090 for Prometheus

Ip:3000 for grafana

Ip:8080 for cadvisor

Ip:9100 for node exporter

These are the 4 containers will be creating

In grafana , add source data > select Prometheus > ip:9090 save nd test > it will be saved

Data source added

Dashboard > create panel > select Prometheus > metrics > here will get the diff queries

Select query and see the graph

But to see this is very clear way will import panel

+ sign from left pane > import > 11600 > import

Will get the diff graphs which showing

Running containers

CPU usage on node

Network traffic on node

Memory usage per container

Cached memory per container

Sent network traffic per container

Cpu usage per container

Received network traffic per container

Versions of os,kernel,cadvisor,docker,Prometheus



