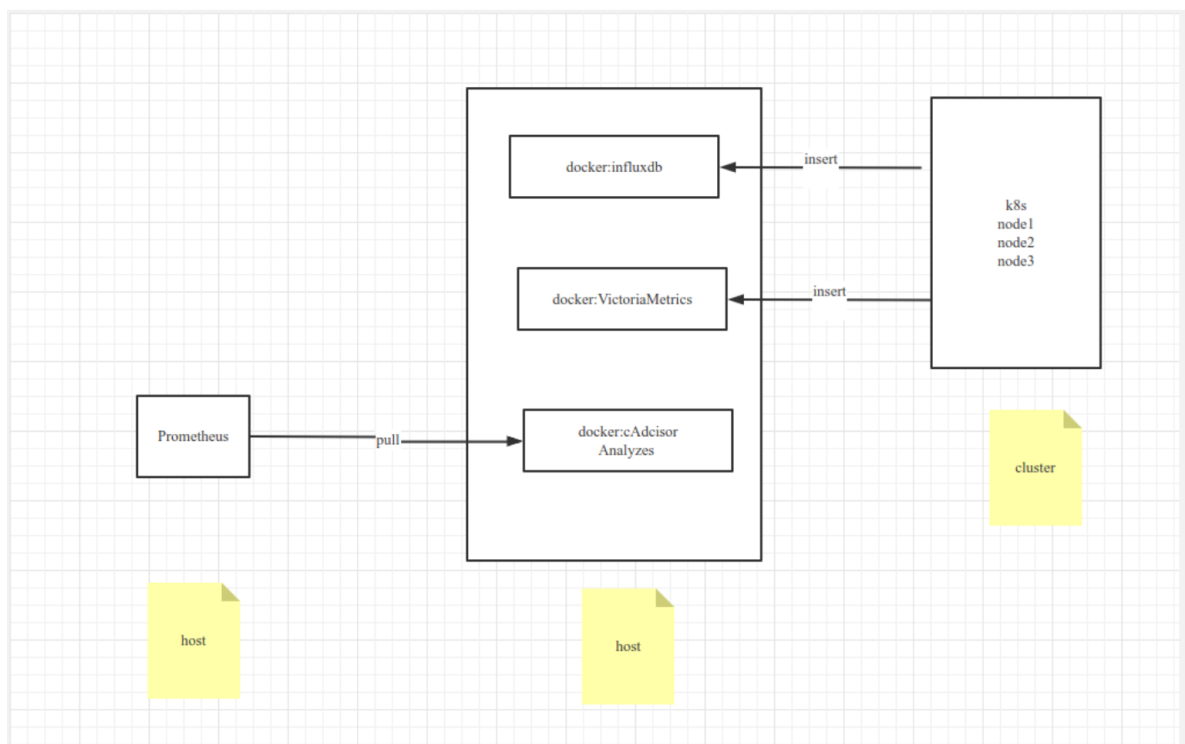


介绍

在hostA上使用docker标准安装时序数据库 Influxdb 和 VictoriaMetrics，然后使用docker安装一个容器性能分析工具 cAdvisor 来采集容器运行时的相关指标。



环境

- hostA: 178.104.163.175 2c 4g 服务: cadvisor、influxdb、VictoriaMetrics
- hostB: 178.104.163.111 2c 4g 服务: prometheus
- k8s集群: 178.104.163.88

开始

- install cadvisor

```
docker run -d \
  --name cadvisor \
  -p 8080:8080 \
  -v /:/rootfs:ro \
  -v /var/run:/var/run:rw \
  -v /sys:/sys:ro \
  -v /var/lib/docker:/var/lib/docker:ro \
  -v /dev/disk:/dev/disk:ro \
  google/cadvisor:latest
```

- install influxdb

```
docker run -p 8086:8086 -d \
  --name influxdb \
  -v influxdb:/var/lib/influxdb \
  influxdb:1.8
```

```

docker run -p 8087:8086 -d \
    --name influxar \
    -v /root/influxar:/var/lib/influxdb \
    harbor.archeros.cn/library/influxdb:v1.6.0_cluster

docker run -p 8086:8086 -d \
    -v influxdb:/var/lib/influxdb \
    -v influxdb2:/var/lib/influxdb2 \
    -e DOCKER_INFLUXDB_INIT_MODE=upgrade \
    -e DOCKER_INFLUXDB_INIT_USERNAME=root \
    -e DOCKER_INFLUXDB_INIT_PASSWORD=123456@qwe \
    -e DOCKER_INFLUXDB_INIT_ORG=my-org \
    -e DOCKER_INFLUXDB_INIT_BUCKET=my-bucket \
    influxdb:2.3

export INFLUX_USERNAME=root
export INFLUX_PASSWORD=123456@qwe
export DOCKER_INFLUXDB_INIT_USERNAME=root
export DOCKER_INFLUXDB_INIT_PASSWORD=123456@qwe

influx config create --config-name config01 \
--host-url http://178.104.163.111:8086 \
--org my-org \
--token POPKjIwNmKKBga0CNrDWV4LlnEMY-
zcz6F79fYa8yTphOBz72rxtYUJZ1kXiCsaMvWjrx57nkCHFkiXvdyuqGg== \
--active

influx write --bucket my-bucket --precision s "m v=2 $(date +%s)"

```

- install VictoriaMetrics

```

docker run -it -d \
    --name vm \
    -v /root/victoria-metrics-data:/victoria-metrics-data \
    -p 8428:8428 \
    victoriametrics/victoria-metrics:latest

```

- install prometheus

```

docker run \
    -p 9090:9090 \
    -v /root/prometheus-2.36.2.linux-
amd64/prometheus.yml:/etc/prometheus/prometheus.yml \
    prom/prometheus

```

将cadvisor的地址 178.104.163.175:8080 添加进prometheus.yml

测试结果

运行时间46小时

IP 178.104.163.175 复制

系统信息

运行 8 天

负载 1.94, 1.85, 1.73

CPU 55%

内存 34% 1.9G/5.7G

交换 0% 0/0

内存 CPU 命令

1.5G 37 influd

53.2M 6 cadvisor

222.8M 5.3 victoria-m...

59.1M 1 dockerd

193K 7K dock...

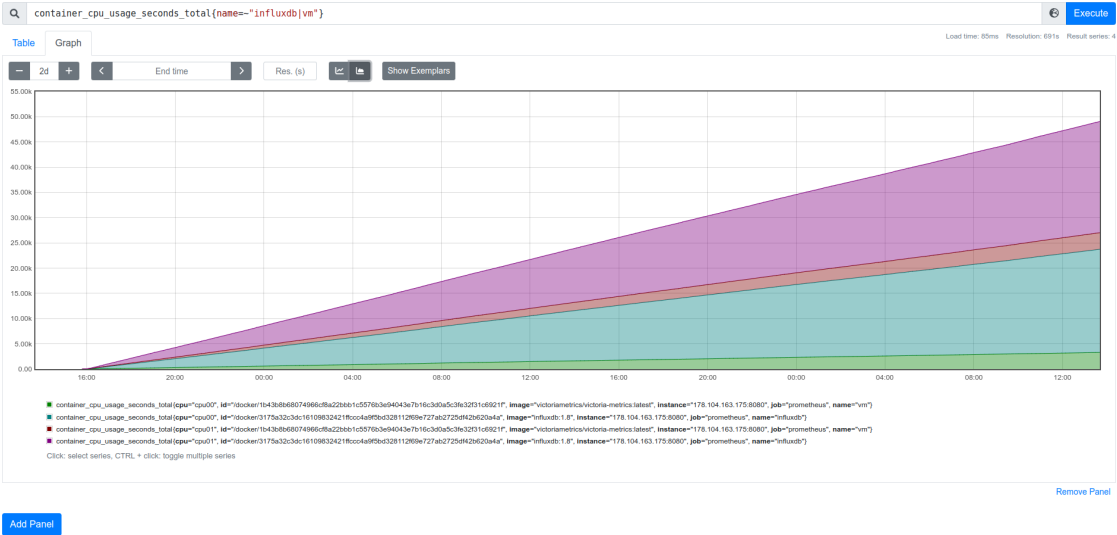
1.2M

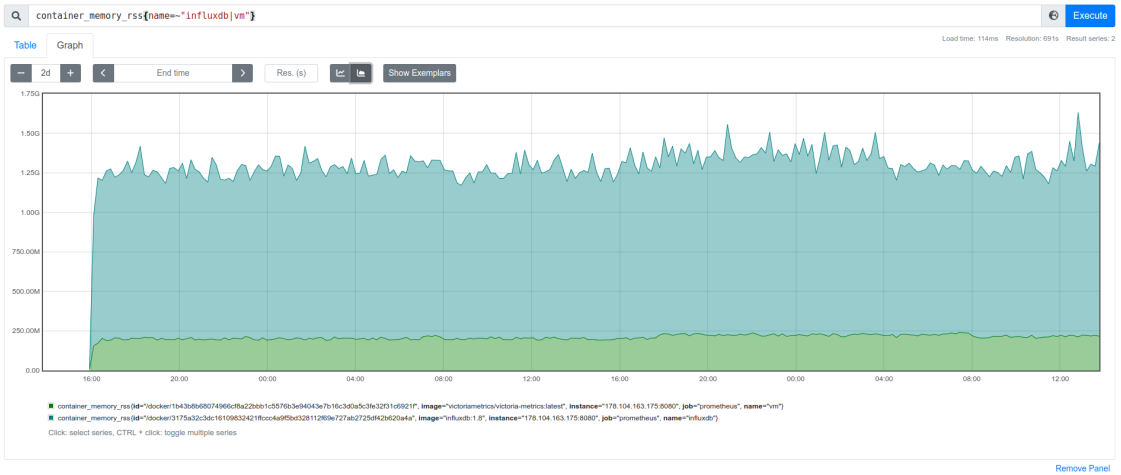
859K

429K

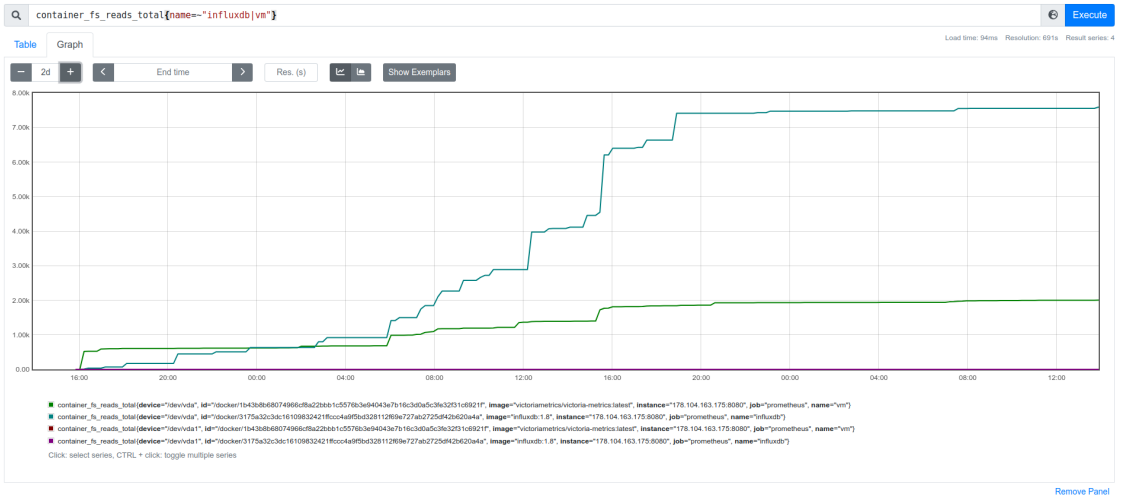
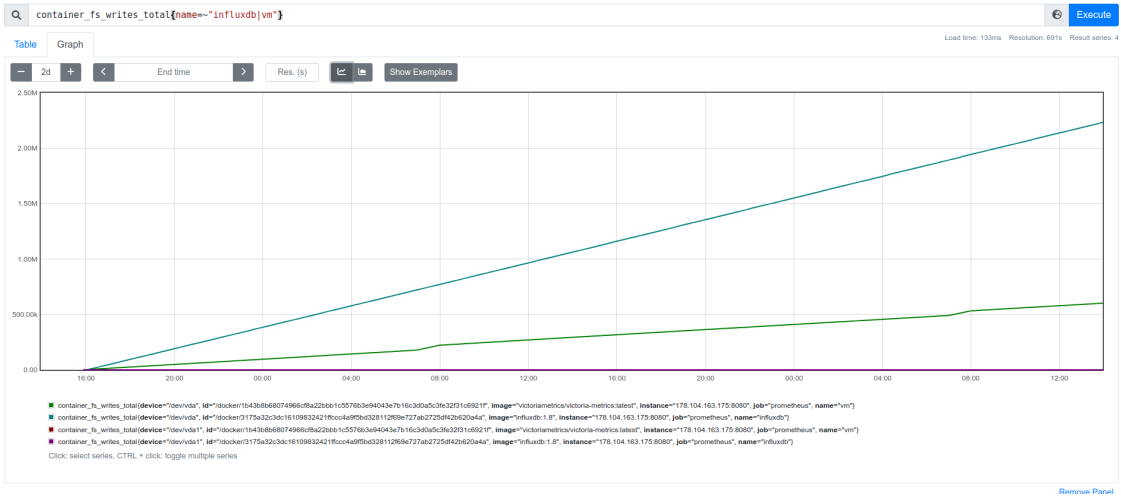
CONTAINER ID	NAME	CPU %	MEM USAGE / LIMIT	MEM %	NET I/O	BLOCK I/O	PIDS
5d75c8628d87	cadvisor	2.57%	48.77MiB / 3.684GiB	1.29%	43.3MB / 1.09GB	23.9MB / 0B	14
3175a32c3dc1	influxdb	39.31%	1.057GiB / 3.684GiB	28.68%	14.2GB / 596MB	2.14GB / 264GB	25
1b43b8b68074	vm	1.60%	224MiB / 3.684GiB	5.94%	14.2GB / 446MB	138MB / 9.23GB	11

• CPU

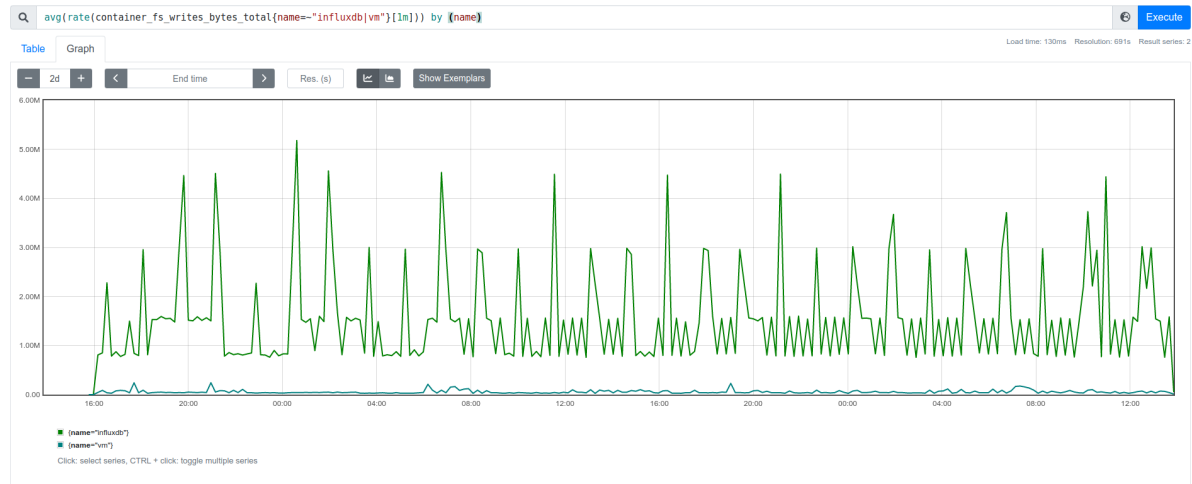
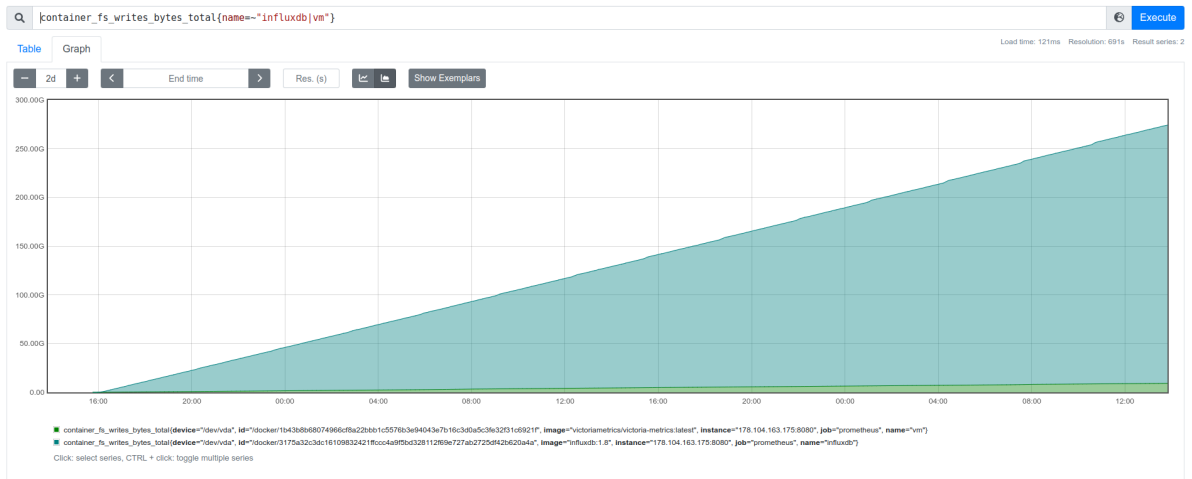




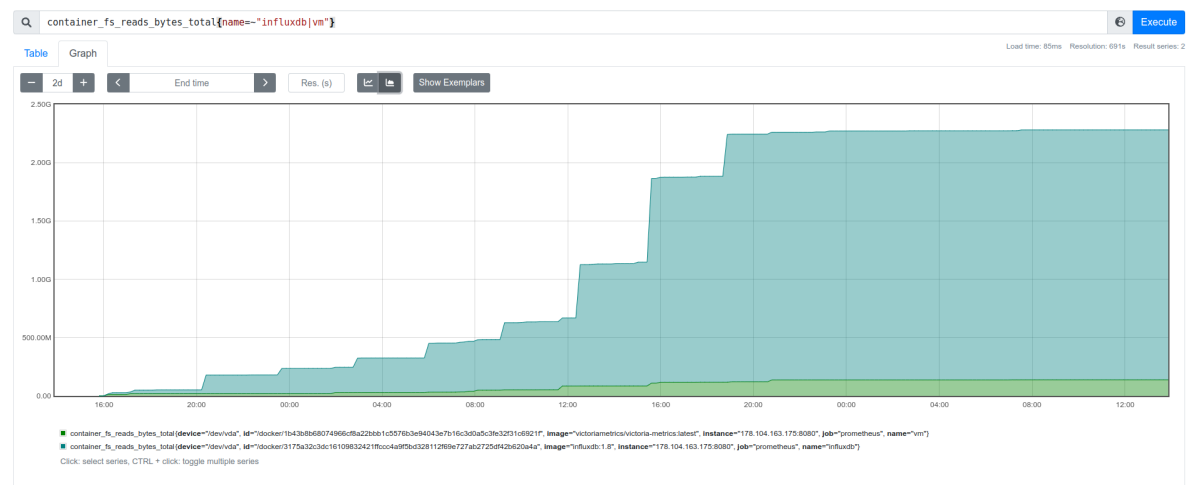
磁盘



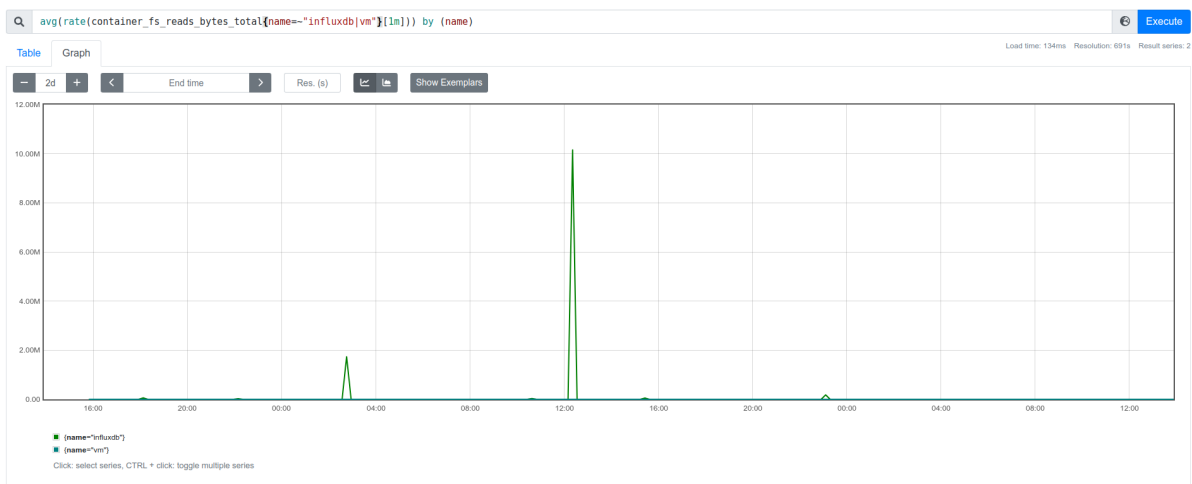
io



[Remove Panel](#)



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```
[root@vm-3 victoria-metrics-data]# du -sh  
165M    .
```

```
root@3175a32c3dc1:/var/lib/influxdb# du -sh  
1.7G    .
```