

swarm使用TIG监控

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grafana docker swarm 监控官方文档: <https://grafana.com/grafana/dashboards/3674&https://github.com/mlabouardy/swarm-tig>

用已有的grafana+ yum安装influxdb + docker全局部署telegraf
grafana安装省略

1. influxdb 安装

```
wget https://dl.influxdata.com/influxdb/releases/influxdb-1.1.0.x86_64.rpm
rpm -ivh influxdb-1.1.0.x86_64.rpm
systemctl enable influxdb
systemctl start influxdb
```

创建数据库:

```
[root@app058 stack]# influx
Visit https://enterprise.influxdata.com to register for updates, InfluxDB
server management, and monitoring.
Connected to http://localhost:8086 version 1.1.0
InfluxDB shell version: 1.1.0
> create database docker_metrics;
> create database vm_metrics;
> quit
```

2. 编写telegraf.conf文件

```
[global_tags]
environment="swarm"

# Read metrics about CPU usage
[[inputs.cpu]]
  percpu = false
  totalcpu = true
  fieldpass = [ "usage*" ]
  name_suffix = "_vm"

# Read metrics about disk usage
[[inputs.disk]]
```

```

    fielddrop = [ "inodes*" ]
    mount_points=["/"]
    name_suffix = "_vm"

# Read metrics about network usage
[[inputs.net]]
    interfaces = [ "eth0" ]
    fielddrop = [ "icmp*", "ip*", "tcp*", "udp*" ]
    name_suffix = "_vm"

# Read metrics about memory usage
[[inputs.mem]]
    name_suffix = "_vm"

# Read metrics about swap memory usage
[[inputs.swap]]
    name_suffix = "_vm"

# Read metrics about system load & uptime
[[inputs.system]]
    name_suffix = "_vm"

# Read metrics from docker socket api
[[inputs.docker]]
    endpoint = "unix:///var/run/docker.sock"
    container_names = []
    name_suffix = "_docker"

[[outputs.influxdb]]
    database = "vm_metrics"
    # 修改成 Influxdb的地址
    urls = ["http://172.16.1.188:8086"]
    namepass = ["*_vm"]

[[outputs.influxdb]]
    database = "docker_metrics"
    urls = ["http://172.16.1.188:8086"]
    namepass = ["*_docker"]

```

3. 编写swarm-monitor.yml, 与telegraf.conf文件目录同级

```

version: "3.4"

services:
  telegraf:
    image: telegraf:1.3
    volumes:
      - /var/run/docker.sock:/var/run/docker.sock
    configs:
      - source: telegraf-config
        target: /etc/telegraf/telegraf.conf
    deploy:
      restart_policy:
        condition: on-failure
      mode: global

configs:
  telegraf-config:
    file: $PWD/telegraf.conf

```

4. swarm 全局部署

在swarm manager节点上执行: `docker stack deploy -c swarm-monitor swarm-monitor`

查看部署信息: `docker stack ps swarm-monitor`

ID	NAME	IMAGE	NODE	DESIRED STATE	CURRENT STATE
xfohminlnylv	swarm-monitor_telegraf.jy3lww7e5qd81g53981q4smkg	telegraf:1.3	app058	Running	Running 4 hours ago
xw7vs6m3fqof	swarm-monitor_telegraf.nb12ligo6bgqobmapf4dbv75j	telegraf:1.3	manager	Running	Running 4 hours ago
yncuq6w9lzkz	swarm-monitor_telegraf.v2t1630cxrba02urizpoi9lr0	telegraf:1.3	node01	Running	Running 4 hours ago
5l3jp5czbzc3	swarm-monitor_telegraf.07sbgrgydlk3augywl1u1ayd6	telegraf:1.3	app01	Running	Running 4 hours ago
a0lr4o2tmuvx	swarm-monitor_telegraf.lfceqnbds0yp57sbls9wt50sx	telegraf:1.3	app02	Running	Running 4 hours ago
3efqtrjc8i6y	swarm-monitor_telegraf.5skkcvq6n7tp6us04qi2iia89	telegraf:1.3	app03	Running	Running 4 hours ago
i70k8y8h8ib2	swarm-monitor_telegraf.yonznatj537eiku3iv390ssqn	telegraf:1.3	app04	Running	Running 4 hours ago

如果出现异常可以进入容器查看具体内容: `docker logs -f 容器ID`

```

[root@app058 stack]# docker logs -f ldb31b231a9b
2020/06/01 10:58:11 I! Using config file: /etc/telegraf/telegraf.conf
2020-06-01T10:58:11Z I! Starting Telegraf (version 1.3.5)
2020-06-01T10:58:11Z I! Loaded outputs: influxdb influxdb
2020-06-01T10:58:11Z I! Loaded inputs: inputs.net inputs.mem inputs.swap inputs.system inputs.docker inputs.cpu inputs.disk
2020-06-01T10:58:11Z I! Tags enabled: environment=swarm host=ldb31b231a9b
2020-06-01T10:58:11Z I! Agent Config: Interval:10s, Quiet:false, Hostname:"ldb31b231a9b", Flush Interval:10s

```

5. dashbaord文件下载地址

All dashboards » Swarm Cluster



Swarm Cluster by mlabouardy

DASHBOARD

Exploring Swarm & Container Overview Dashboard in Grafana

Last updated: 3 years ago

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Overview

Revisions

Reviews



How to use ? [Github](#)

Collector Configuration Details

```
[global_tags]
environment="swarm"

# Read metrics about CPU usage
[[inputs.cpu]]
  percpu = false
```

Get this dashboard:

3674

Copy ID to Clipboard

Download JSON

How do I import this dashboard?

Dependencies:

GRAFANA 4.3.2

GRAPH

INFLUXDB 1.0.0

6. grafana创建数据源 docker_metrics和vm_metrics

Settings

Name

swarm-vms

Default

☐

HTTP

URL

ht

Access

Server (default)

Help

Whitelisted Cookies

Add Name

Add

Auth

Basic auth

☐

With Credentials

☐

TLS Client Auth

☐

With CA Cert

☐

Skip TLS Verify

☐

Forward OAuth Identity

☐

InfluxDB Details

Database

vm_metrics

User



Password

configured


reset

HTTP Method

Choose

	swarm-docker http://172.17.0.1:8080	INFLUXDB
	swarm-vms http://172.17.0.1:8080	INFLUXDB

7. 导入dashboard.json文件

 **Import**
Import dashboard from file or Grafana.com

Importing Dashboard from [Grafana.com](#)

Published by

Updated on

Options

Name

Swarm Cluster

⚠ A dashboard in this folder with the same name already exists

Folder

General ▾

Unique identifier (uid)

ⓘ auto-generated

change

Docker

ⓘ Docker Swarm Data Source

▾

Vms

ⓘ Docker Swarm Data Source

swarm-docker

swarm-vms

Import (Overwrite)

Cancel

8. 监控情况：

