docker swarm-monitor

• 基于Grafana+cAdvisor+InfluxDB实现docker swarm集群监控

cAdvisor: 收集数据, swarm做全局部署 InfluxDB: 数据存储,选择主节点部署

Grafana: 数据展示

完整Grafana+cAdvisor+InfluxDB部署脚本:
 swarm-monitor-stack.yml

```
version: '3'
services:
  influx:
    image: influxdb
    volumes:
      - influx:/var/lib/influxdb
    deploy:
      replicas: 1
      placement:
        constraints:
          - node.role == manager
  grafana:
    image: grafana/grafana
    ports:
      - 0.0.0.0:80:3000
    volumes:
      - grafana:/var/lib/grafana
    depends_on:
      - influx
    deploy:
      replicas: 1
      placement:
        constraints:
          - node.role == manager
  cadvisor:
    image: google/cadvisor
    hostname: '{{.Node.Hostname}}'
    command: -logtostderr -docker_only -storage_driver=influxdb -storage_dr
```

```
iver_db=cadvisor -storage_driver_host=influx:8086
    volumes:
        - /:/rootfs:ro
        - /var/run:/var/run:rw
        - /sys:/sys:ro
        - /var/lib/docker/:/var/lib/docker:ro
    depends_on:
        - influx
    deploy:
        mode: global

volumes:
    influx:
    driver: local
    grafana:
    driver: local
```

• 使用已有的 grafana部署 脚本,仅部署influx和cadvisor swarm-monitor-stack.yml

```
version: "3.4"
services:
 influx:
   #image: influxdb 使用influxdb 暴露端口无法通,遗留更改为tutum/influxdb镜像
   image: tutum/influxdb:0.9
   ports:
     - "8083:8083"
     - "8086:8086"
   volumes:
      - influx:/var/lib/influxdb
   deploy:
     replicas: 1
     restart_policy:
       condition: on-failure
     placement:
       constraints:
         - node.role == manager
   environment:
      - PRE_CREATE_DB=cadvisor
  cadvisor:
```

```
image: google/cadvisor
    hostname: '{{.Node.Hostname}}'
    command: -logtostderr -docker only -storage driver=influxdb -storage dr
iver db=cadvisor -storage driver host=influx:8086
    ports:
      - "8180:8180"
    volumes:
      - /:/rootfs:ro
      - /var/run:/var/run:rw
      - /sys:/sys:ro
      - /var/lib/docker/:/var/lib/docker:ro
    depends on:
      - influx
    deploy:
      mode: global
volumes:
  influx:
    driver: local
 grafana:
    driver: local
```

• 在swarm主节点上运行swarm-monitor-stack.yml

```
docker stack deploy -c swarm-monitor-stack.yml swarm-monitor
```

```
[root@nodel docker_stack_files]# docker stack deploy -c swarm-monitor.yml swarm-monitor
Creating network swarm-monitor_default
Creating service swarm-monitor_influx
Creating service swarm-monitor_cadvisor
```

docker stack 1s

```
[root@nodel docker_stack_files]# docker stack ls
                     SERVICES
NAME
                                          ORCHESTRATOR
es-single
                                          Swa rm
eureka
                     2
                                          Swa rm
eureka-service
                     2
                                          Swa rm
mall-pms
                                          Swa rm
                     2
portainer
                                          Swa m
swarm-monitor
                                          Swarm
[root@nodel docker stack files]#
```

docker stack services swarm-monitor

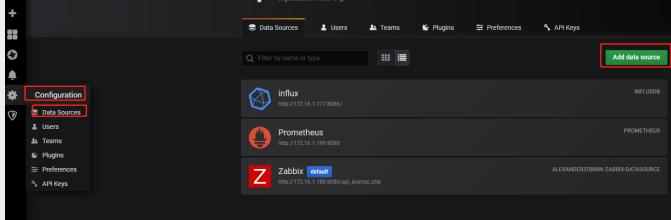
• influx创建数据 cAdvisor, 创建默认账号密码admin/admin

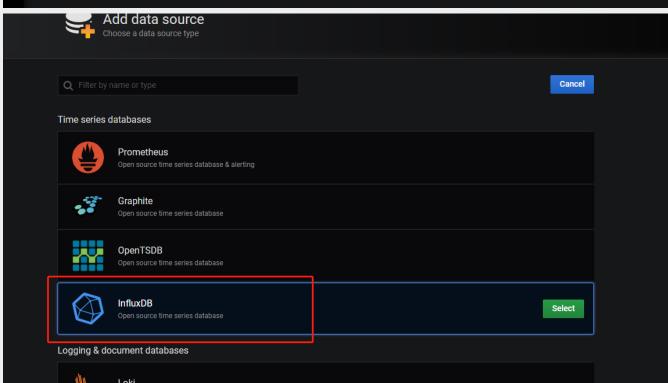
```
docker exec `docker ps | grep -i influx | awk '{print $1}'` influx -execute
'CREATE DATABASE cadvisor'
```

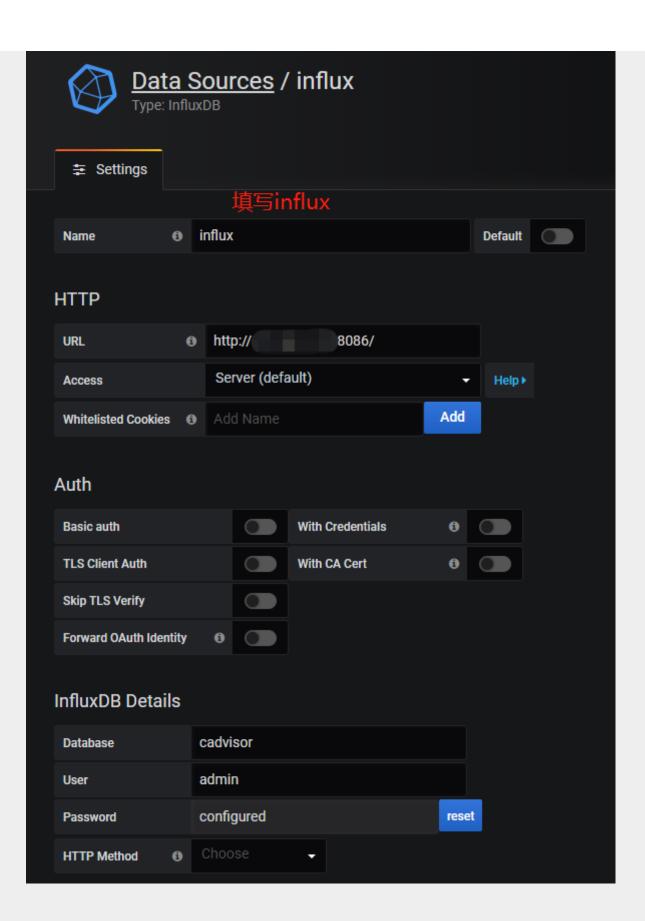
或者讲入容器创建

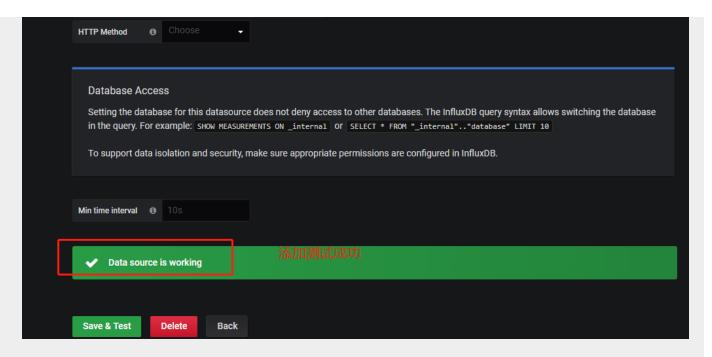
docker exec -it influx容器ID /bin/bash

• grafana添加influxDB









 导入 docker-swarm-monitor的dashboard.json 下载链接

• 导入 dashboard grafana

