promethues检测中间件mysql

1.docker安装promethues

```
mkdir /opt/prometheus
cd /opt/prometheus/
vim prometheus.yml
```

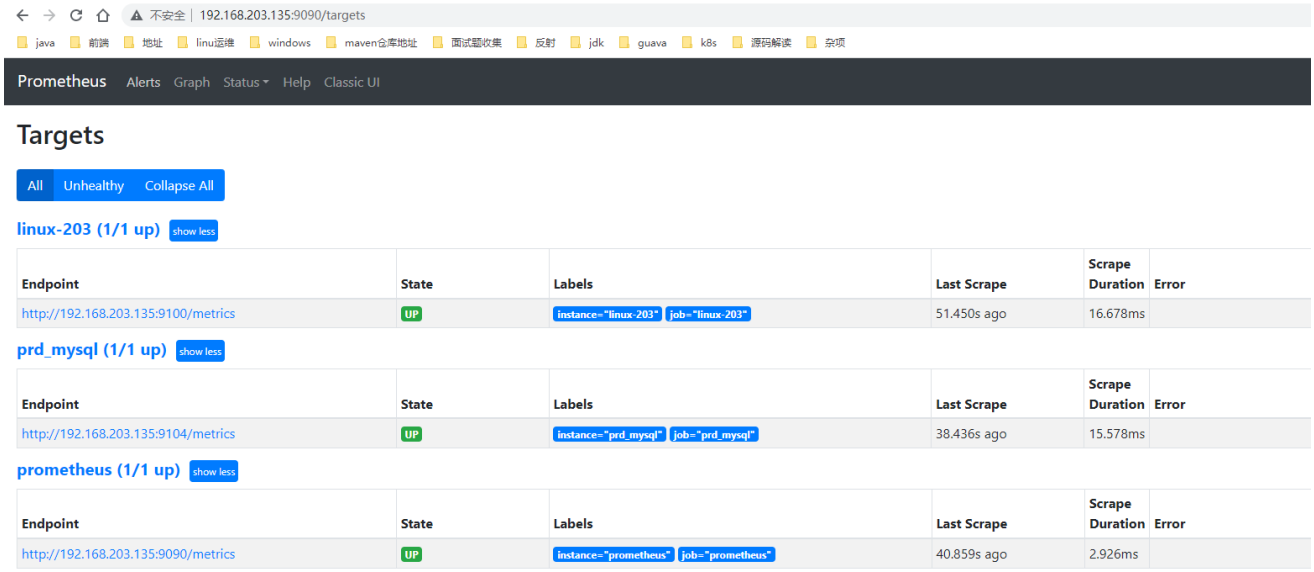
内容如下

```
global:
  scrape_interval:     60s
  evaluation_interval: 60s

scrape_configs:
  - job_name: prometheus
    static_configs:
      - targets: ['localhost:9090']
        labels:
          instance: prometheus

  - job_name: linux
    static_configs:
      - targets: ['192.168.xx.xx:9100']
        labels:
          instance: localhost
```

启动prometheus

```
docker run  -d \
  -p 9090:9090 \
  -v /opt/prometheus/prometheus.yml:/etc/prometheus/prometheus.yml  \
  prom/prometheus
```

访问targets，url如下：



2.启动grafana

新建空文件夹grafana-storage，用来存储数据

```
mkdir /opt/grafana-storage
```

设置权限

```
chmod 777 -R /opt/grafana-storage
```

因为grafana用户会在这个目录写入文件，直接设置777，比较简单粗暴！

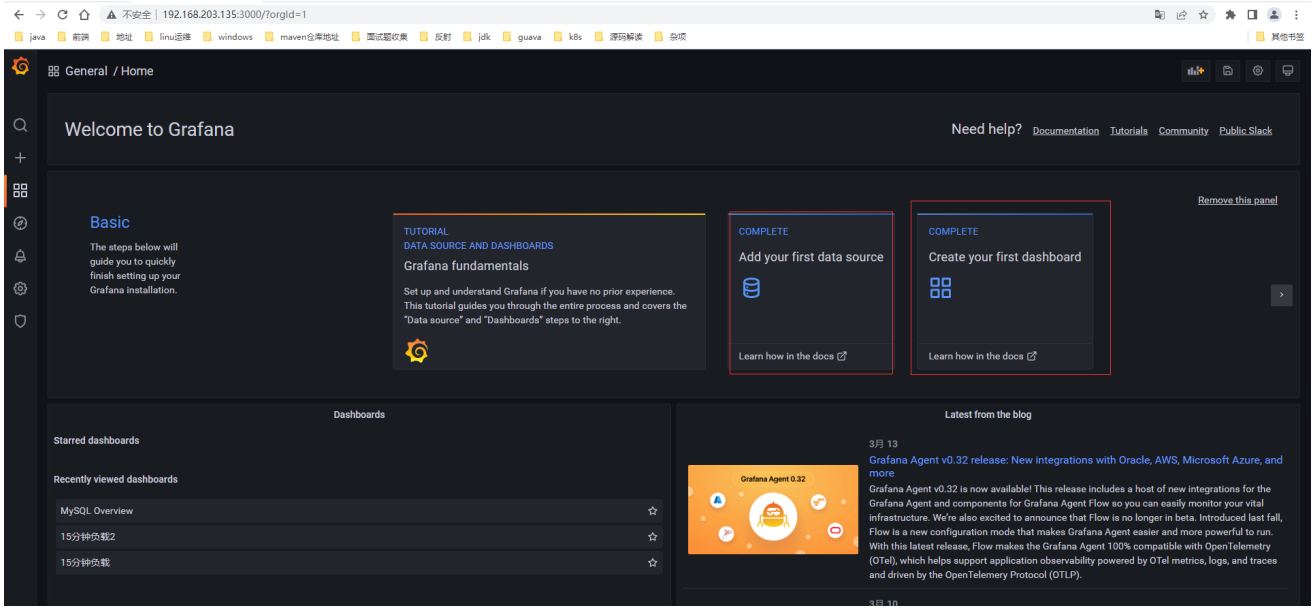
启动grafana

```
docker run -d \
  -p 3000:3000 \
  --name=grafana \
  -v /opt/grafana-storage:/var/lib/grafana \
  grafana/grafana
```

访问url,并且重置密码（默认admin/admin）：

```
http://192.168.xx.xx:3000/
```

密码设置完成之后，就会跳转到首页



3.下载exporter服务

启动用于采集linux系统和mysql服务状态的exporter服务 prometheus常见的exporter及作用： （1）、node_exporter用于监控操作系统的性能和运行状态 （2）、mysqld_exporter用于监控mysql服务 （3）、snmp_exporter用于监控网络设备

```
#下载
wget https://github.com/prometheus/mysqld_exporter/releases/download/v0.13.0/mysqld_exporter-0.13.0.linux-amd64.tar.gz
#解压到指定目录
tar -xf mysqld_exporter-0.13.0.linux-amd64.tar.gz -C /usr/local/
#创建隐藏配置文件.my.cnf,用于mysqld_exporter连接mysql采集数据。
vim /usr/local/mysqld_exporter-0.13.0.linux-amd64/.my.cnf
#写入以下内容
[client]
user=prometheus
password= root
#后台启动
nohup ./mysqld_exporter --config.my-cnf=/root/mysqld_exporter/.my.cnf &
```

修改prometheus配置文件，配置监控linux主机和mysql数据库，配置文件为yml语法，注意缩进对齐。

```
vim prometheus.yml
#在文档的最后插入以下内容
- job_name: system-status
 static_configs:
 - targets: ['172.16.XXX.XXX:9100']
   labels:
     instance: mgr_node1
- job_name: prd_mysql
 static_configs:
 - targets: ['172.16.XXX.XXX:9104']
   labels:
     instance: prd_mysql
```

4.docker安装mysql

```
docker run -p 3306:3306 --name mysql-01 \
-v /mydata/mysql/log:/var/log/mysql \
-v /mydata/mysql/data:/var/lib/mysql \
-v /mydata/mysql/conf:/etc/mysql/conf.d \
-e MYSQL_ROOT_PASSWORD=root \
--restart=always \
-d mysql:5.7
```

进入容器内部

```
首先查看mysql中所有的用户
SELECT user,host FROM mysql.user;
查看指定用户的权限情况
SELECT * FROM mysql.user WHERE user='root'
创建一个用户
CREATE USER 'prometheus'@'%' IDENTIFIED BY 'root';
给用户赋予只读权限
GRANT SELECT ON mydb.* TO 'prometheus'@'%';
刷新权限
FLUSH PRIVILEGES;
```

4.查看dashboard

其他：

开放端口

```
firewall-cmd --zone=public --add-port=1935/tcp --permanent
firewall-cmd --reload
```

查看进程

```
netstat -ano | findstr 8081
```