

# Linux下安装prometheus & grafana

---

## 1 安装prometheus

### 1.1 下载prometheus

### 1.2 安装

### 1.3 启动prometheus

### 1.4 访问prometheus

## 2 安装grafana

### 2.1 下载grafana

### 2.2 安装

### 2.3 启动grafana

### 2.4 访问grafana

## 3 安装kafka\_exporter

### 3.1 安装

### 3.2 解压自选目录下，并重命

### 3.3 启动

### 3.4 浏览器访问

## 4 Prometheus配置

### 3.1 进入prometheus安装目录，编辑prometheus.yml

### 3.2 重启Prometheus

## 1 安装prometheus

### 1.1 下载prometheus

下载地址

<https://prometheus.io/download/#prometheus>

下载

```
wget https://github.com/prometheus/prometheus/releases/download/v2.42.0/prometheus-2.42.0.linux-amd64.tar.gz
```

## 1.2 安装

# 新建目录，并进入目标目录

```
mkdir -p /middleware/prometheus && cd /middleware/prometheus
```



Plain Text

复制代码

```
1 # 解压
2 tar -vxzf /root/prometheus-2.42.0.linux-amd64.tar.gz -C /middleware/prometh
  eus
3
4 cd /middleware/prometheus
5 mv prometheus-2.42.0.linux-amd64 prometheus
```

## 1.3 启动prometheus



Plain Text

复制代码

```
1 前台启动prometheus
2 cd /middleware/prometheus
3 ./prometheus --config.file=prometheus.yml
```

后台启动prometheus，并且重定向输入日志到当前目录的prometheus.out

```
nohup ./prometheus --config.file=prometheus.yml >> /middleware/prometheus/p
rometheus/prometheus.out 2>&1 &
```

## 1.4 访问prometheus

prometheus启动完后，监听端口为9090

<http://hadoop001:9090/>

## 2 安装grafana

### 2.1 下载grafana

下载地址

▼ Plain Text 复制代码

```
1 https://grafana.com/  
2 https://grafana.com/grafana/download?pg=get&plcmt=selfmanaged-box1-cta1&edition=oss
```

下载

```
wget https://dl.grafana.com/oss/release/grafana-9.4.2.linux-amd64.tar.gz
```

## 2.2 安装

▼ Plain Text 复制代码

```
1 # 新建目录, 并进入目标目录  
2 mkdir -p /middleware/grafana && cd /middleware/grafana  
3  
4 # 解压  
5 tar -vzxvf /middleware/grafana-9.4.2.linux-amd64.tar.gz -C /middleware/grafana  
6  
7 cd /middleware/grafana  
8 mv grafana-9.4.2 grafana
```

## 2.3 启动grafana

grafana默认的配置文件在\$GRAFANA\_HOME/conf/defaults.ini 中, 该文件中的内容不要修改。复制一份, 命名为grafana.ini; 自定义的配置文件通过 --config 来指定加载路径

▼ Plain Text 复制代码

```
1 cp /middleware/grafana/grafana/conf/defaults.ini /middleware/grafana/grafana/conf/grafana.ini
```

后台启动grafana

```
1 nohup /middleware/grafana/grafana/bin/grafana-server \  
2 -config "/middleware/grafana/grafana/conf/grafana.ini" \  
3 -homepath "/middleware/grafana/grafana" \  
4 -pidfile "/middleware/grafana/grafana/grafana.pid" web \  
5 >> /middleware/grafana/grafana/grafana.out 2>&1 &
```

```
nohup /opt/industry_cloud/kafka_exporter/grafana/bin/grafana-server \  
-config "/opt/industry_cloud/kafka_exporter/grafana/conf/grafana.ini" \  
-homepath "/opt/industry_cloud/kafka_exporter/grafana" \  
-pidfile "/opt/industry_cloud/kafka_exporter/grafana/grafana.pid" web \  
>> /opt/industry_cloud/kafka_exporter/grafana/grafana.out 2>&1 &
```

- config: 自定义的配置文件的途径
- homepath: homepath的路径，否则程序启动不了
- pidfile: pid文件的路径

## 2.4 访问grafana

grafana启动完后，监听端口为3000；默认的用户名和密码是：admin/admin

<http://192.168.10.223:3000/>

参考资料

```
1 https://blog.csdn.net/huangjinjin520/article/details/129311778  
2 https://blog.csdn.net/qq_43386944/article/details/122727712  
3 https://www.cnblogs.com/ezops/p/16607845.html
```

## 3 安装kafka\_exporter

### 3.1 安装

kafka\_exporter 用来收集 Topic, Broker, ConsumerGroup 的相关信息, 可以无缝对接 Prometheus 和 Grafana, 使用起来比较方便。

安装配置kafka\_exporter **注: 1个kafka集群只需要1个exporter, 在集群上的任意1台服务器部署。**

安装包下载, 也可以wget在线下载, 这里我下载到了home目录下

▼ Plain Text 复制代码

```
1 wget https://github.com/danielqsj/kafka_exporter/releases/download/v1.2.0/kafka_exporter-1.2.0.linux-amd64.tar.gz
```

### 3.2 解压自选目录下, 并重命

▼ Plain Text 复制代码

```
1 # tar -zxvf kafka_exporter-1.2.0.linux-amd64.tar.gz
2 # mv kafka_exporter-1.2.0.linux-amd64/ kafka_exporter
```

### 3.3 启动

前台启动, 默认监听端口9308

▼ Plain Text 复制代码

```
1 ./kafka_exporter --kafka.server=hadoop001:9092
```

后台启动

▼ Plain Text 复制代码

```
1 nohup ./kafka_exporter --kafka.server=hadoop001:9092
```

### 3.4 浏览器访问

<http://hadoop001:9308>

# Kafka Exporter

## [Metrics](#)

也可以通过<http://hadoop001:9308/metrics>，看抓取的指标信息。

## 4 Prometheus配置

### 3.1 进入prometheus安装目录，编辑prometheus.yml

▼ Plain Text 复制代码

```
1 # vim prometheus.yml      //加入prometheus监控中，targets可配置多个监控目标
2 - job_name: 'kafka'
3   static_configs:
4     - targets: ['hadoop001:9308']
```

### 3.2 重启Prometheus

▼ Plain Text 复制代码

```
1 # systemctl restart prometheus
```

浏览器查看监控信息：<http://172.20.32.218:9090/targets>

离线下载json

<https://grafana.com/grafana/dashboards/7589-kafka-exporter-overview/>

