# Ceph 集群监控

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## promethues配置

### 配置ceph module

开启module

ceph mgr module enable prometheus

查看service

[root@node1 prometheus-2.3.2.linux-amd64]# ceph mgr services

{

"dashboard": "https://node1:8443/",

"prometheus": "http://node1:9283/"

}

### Prometheus配置及运行

下载地址：

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

<https://github.com/prometheus/node_exporter/releases/download/v0.17.0/node_exporter-0.17.0.linux-amd64.tar.gz>

<https://github.com/prometheus/prometheus/releases/download/v2.9.2/prometheus-2.9.2.linux-amd64.tar.gz>

将源码包拷至服务器后，修改 prometheus.yml配置文件，将ceph-mgr的监控加入，开启prometheus告警

...

rule\_files:

- "ceph\_default\_alerts.yml"

...

scrape\_configs:

- job\_name: 'prometheus'

static\_configs:

- targets: ['10.127.7.80:9090']

- job\_name: 'ceph'

static\_configs:

- targets: ['10.127.7.80:9283']

- job\_name: 'node-exporter'

static\_configs:

- targets: ['10.127.7.80:9100']

...

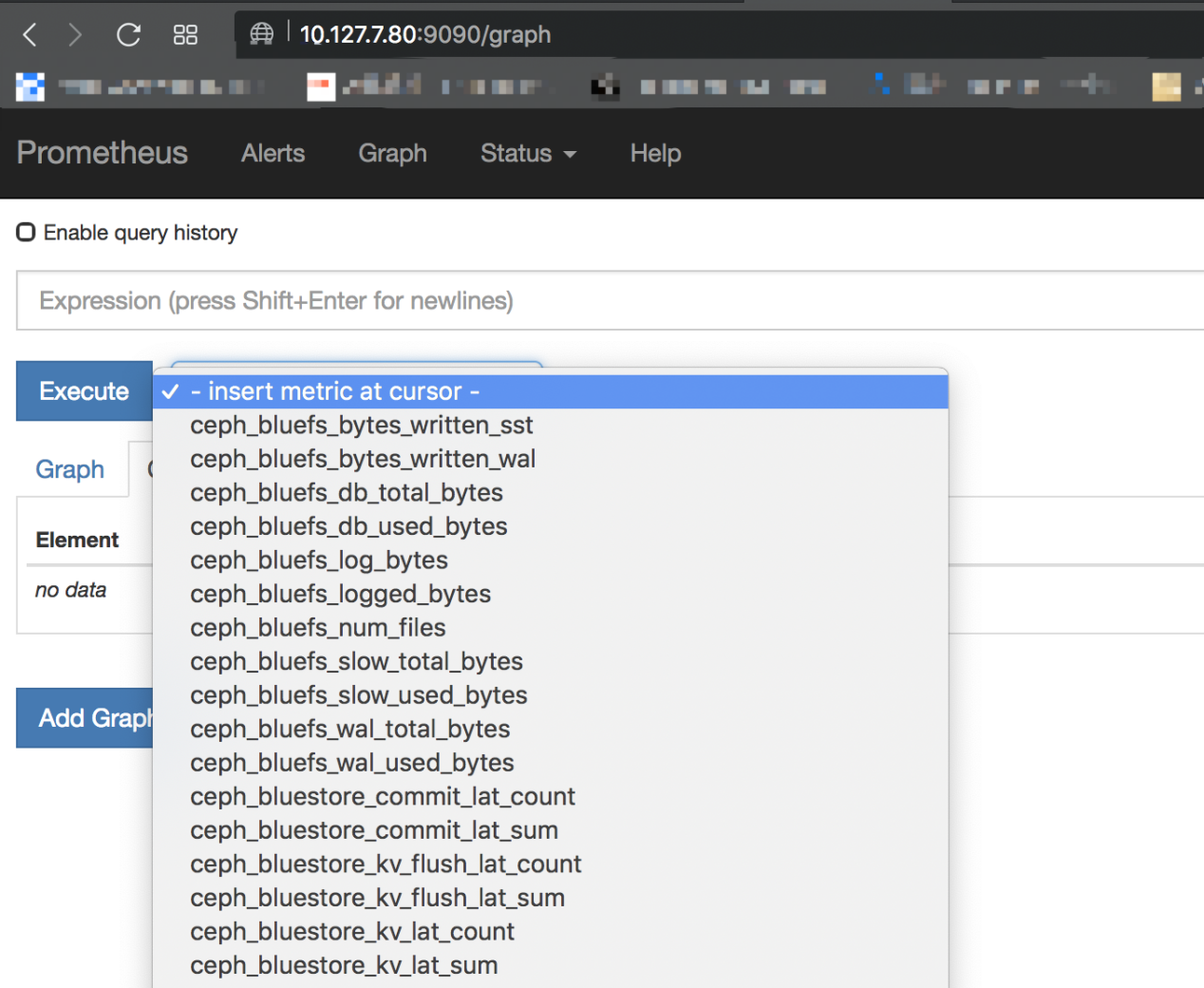
然后直接运行 ./node\_exporter及 ./prometheus两个二进制文件即可

检查端口 9090端口和9100两个端口，保证开启

tcp6 0 0 :::9090 :::\* LISTEN 34022/./prometheus

tcp6 0 0 :::9100 :::\* LISTEN 38503/node\_exporter

直接访问url可以看到Prometheus的数据



，

在启动时候加上以下参数可以设置存储时长，前提是在磁盘空间允许的情况下：--storage.tsdb.retention

## Grafana配置

### 安装

rpm -ivh grafana-6.1.6-1.x86\_64.rpm

systemctl start grafana-server

systemctl enable grafana-server

### 安装两个插件，加饼状图及曲线

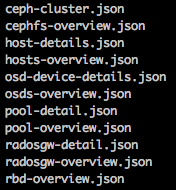
grafana-cli plugins install grafana-piechart-panel

grafana-cli plugins install vonage-status-panel

安装完插件重启，url访问3000端口

### 安装dashboard

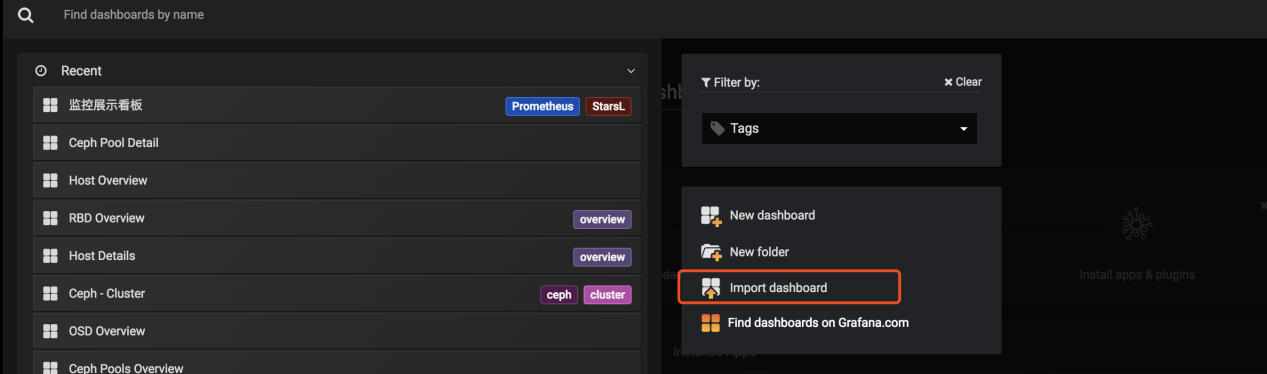
从官方仓库下载json文件 <https://github.com/ceph/ceph/tree/master/monitoring/grafana/dashboards>



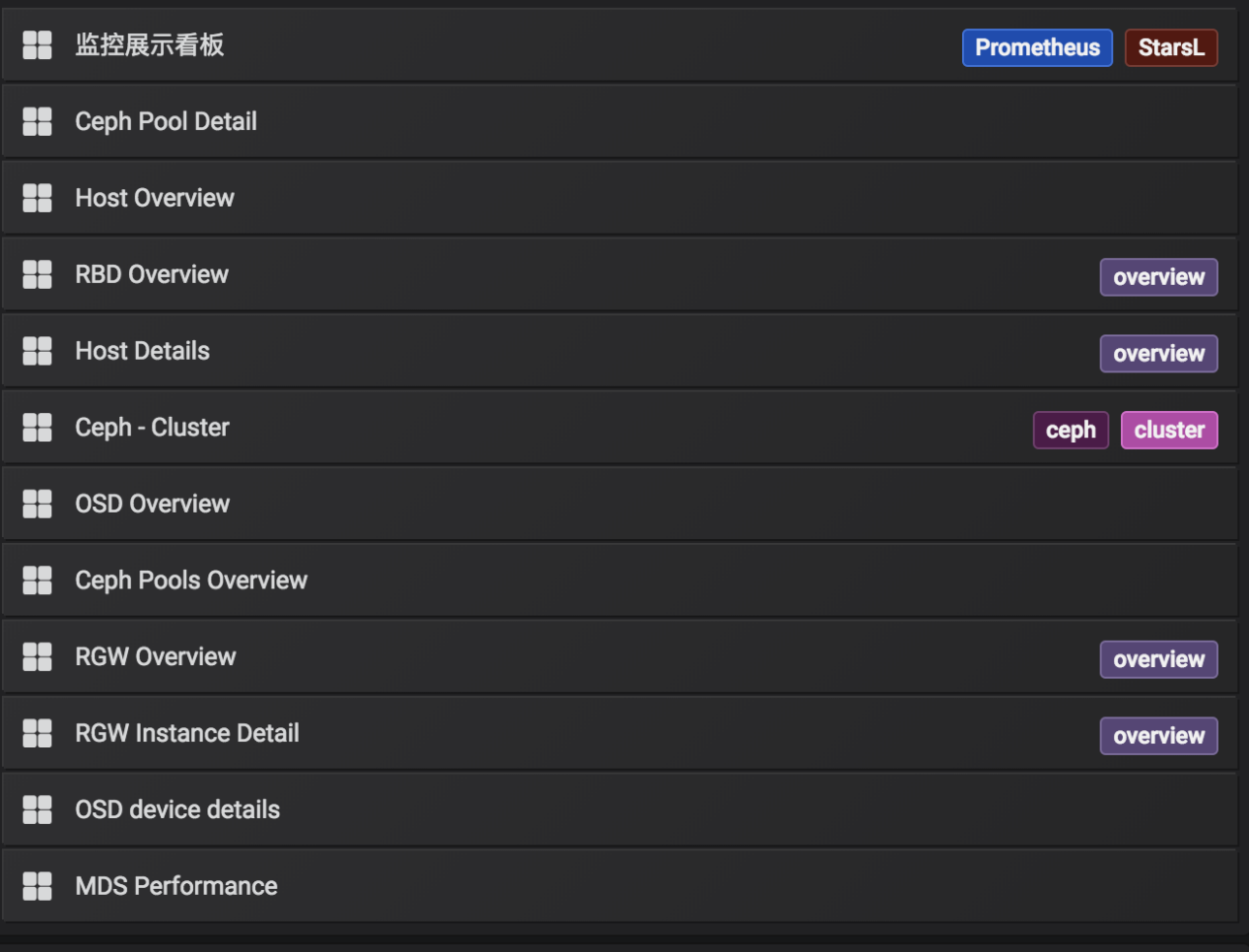
从社区下载

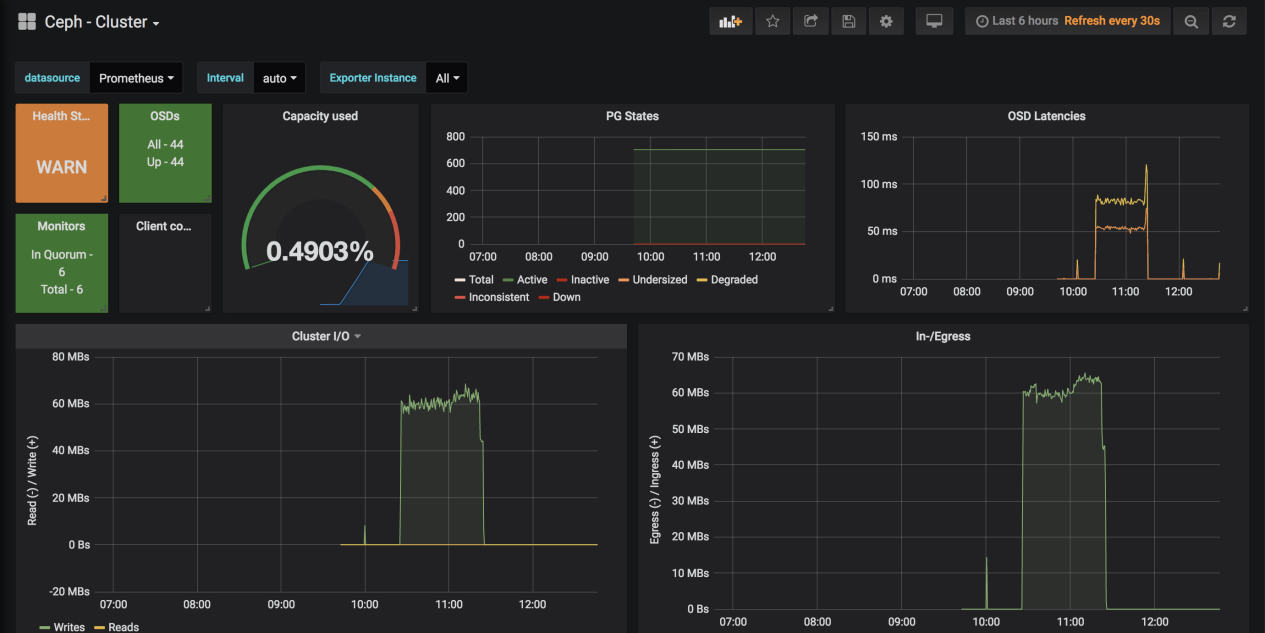
<https://grafana.com/dashboards/8919>

将这些json文件加载到dashboard



效果如图：





### 配置告警

首先在服务器上修改/etc/grafana/grafana.ini配置

[smtp]

enabled = true

host = smtp.163.com:465

user = xxxx@163.com

# If the password contains # or ; you have to wrap it with trippel quotes. Ex """#password;"""

password = xxx

;cert\_file =

;key\_file =

skip\_verify = true

from\_address = 18611305335@163.com

from\_name = Grafana

# EHLO identity in SMTP dialog (defaults to instance\_name)

;ehlo\_identity = dashboard.example.com

[alerting]

# Disable alerting engine & UI features

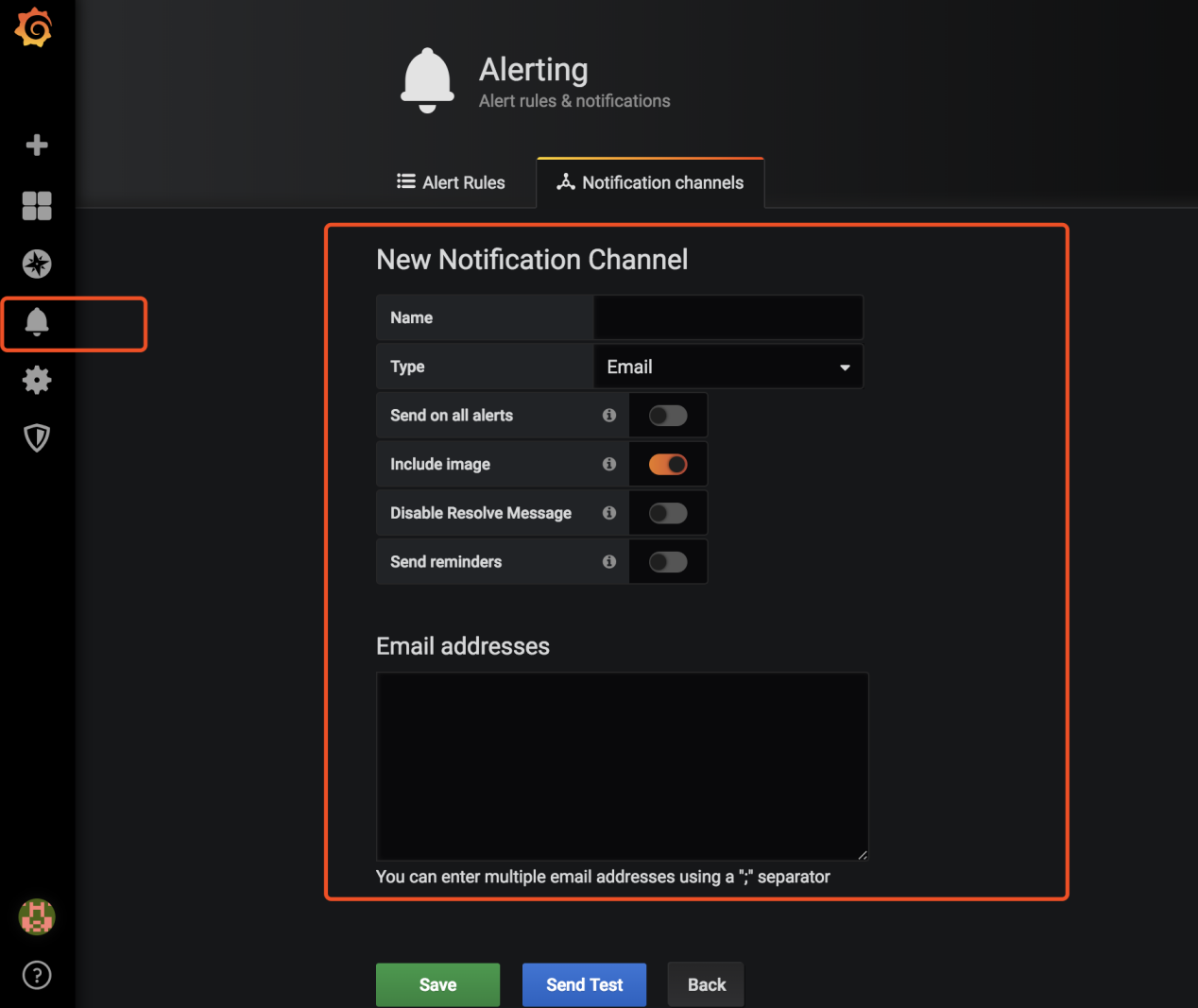
enabled = true

# Makes it possible to turn off alert rule execution but alerting UI is visible

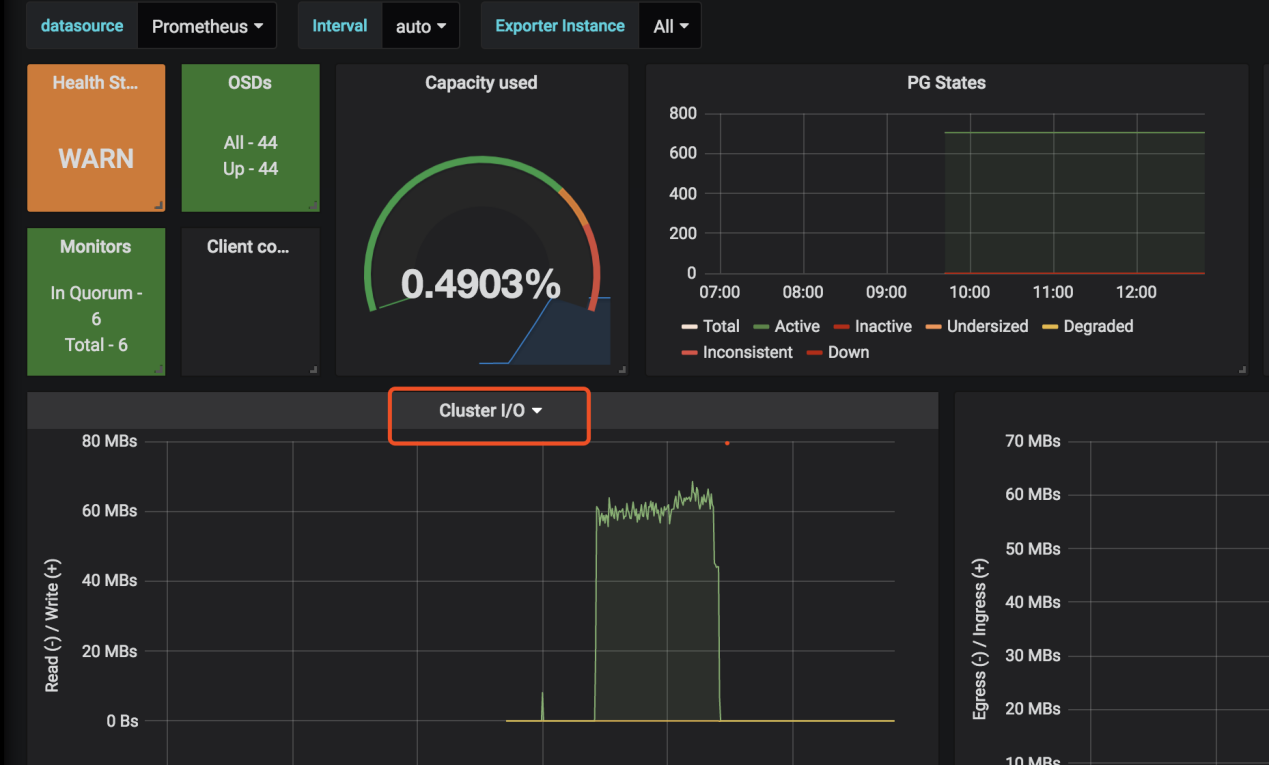
execute\_alerts = true

配置好后重启 systemctl restart grafana-server

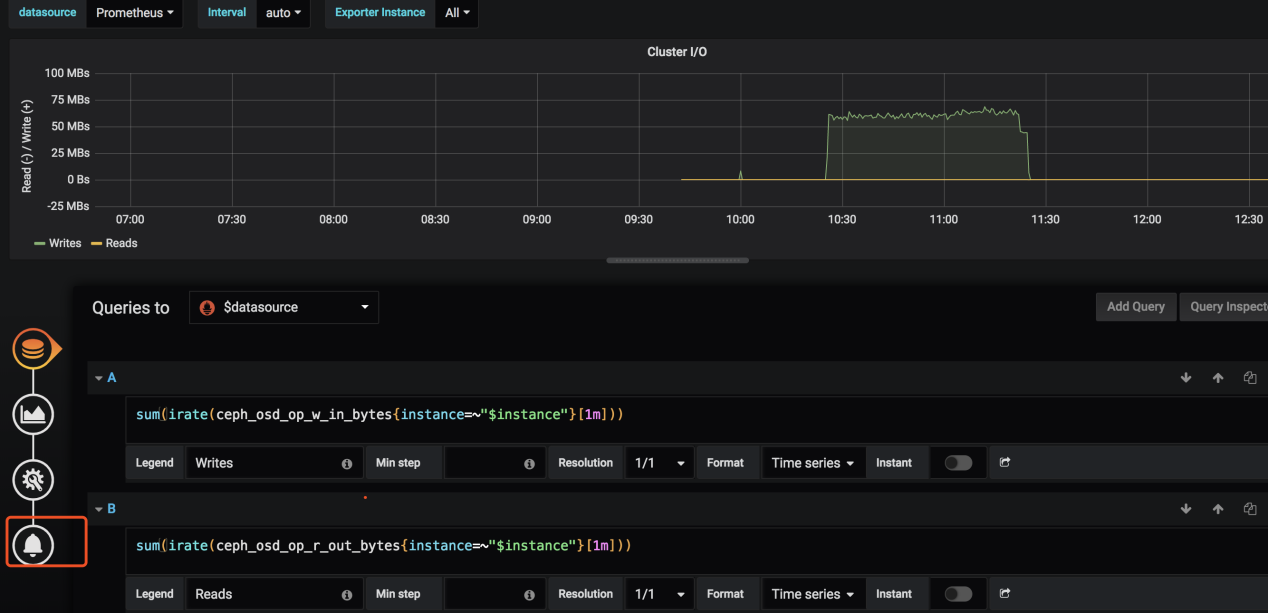
然后在页面上配置，写上要接收的邮件地址



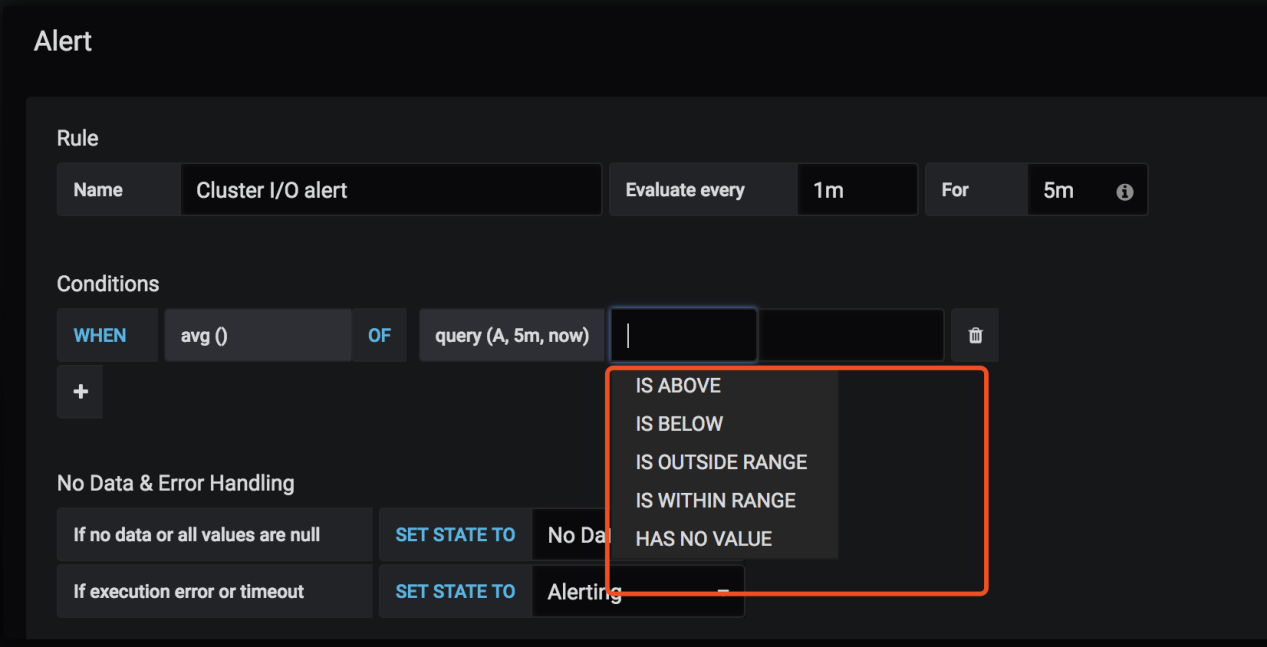
在dashboard上点击要设置的监控项



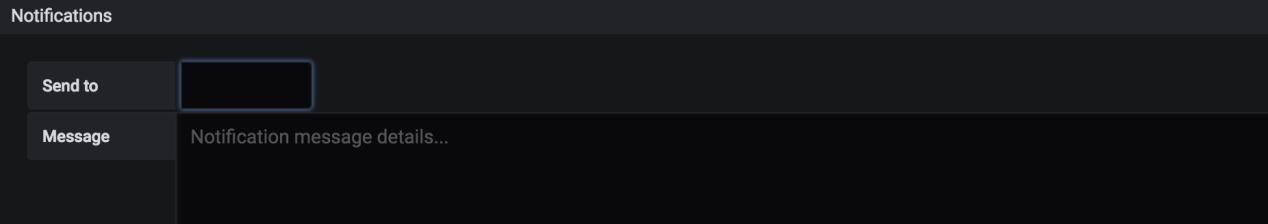
点击告警



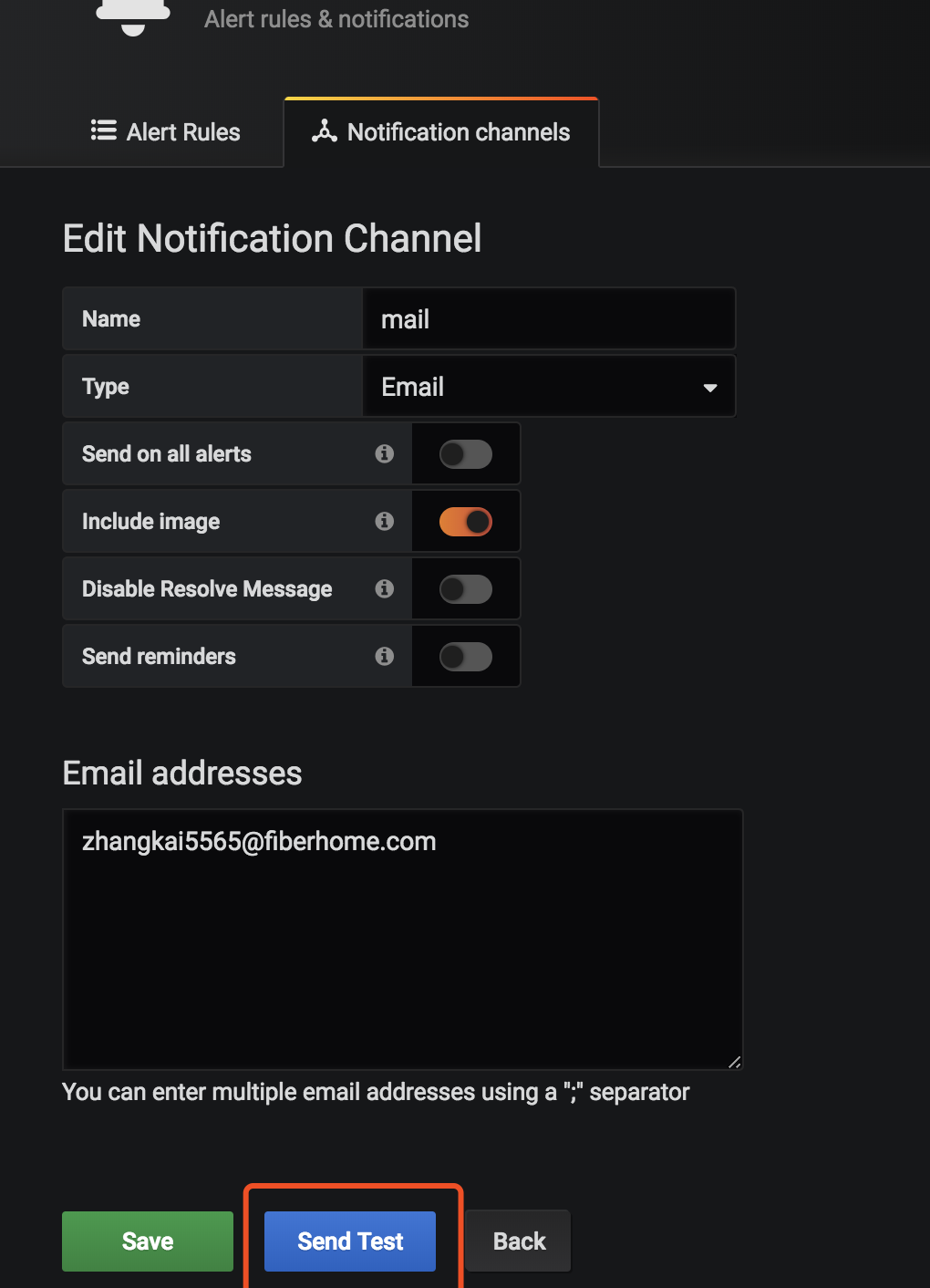
设置告警条件



选择发送对象



点击测试，如下：



收到的邮件如下：

