

OCF 从 4.6 开始，支持自定义 Prometheus AlertManager 规则。规则触发的告警也可以发送到告警邮箱。

我们以两条规则为例，进行说明。

```
apiVersion: monitoring.coreos.com/v1
kind: PrometheusRule
metadata:
  name: cpu10
spec:
  groups:
  - name: example
  rules:
  - alert: HostHighCpuLoad
    expr: 100 - (avg by(instance) (rate(node_cpu_seconds_total{mode="idle"}[2m])) * 100) > 10
    for: 0m
  labels:
  severity: warning
  annotations:
  summary: Host high CPU load (instance {{ $labels.instance }})
```

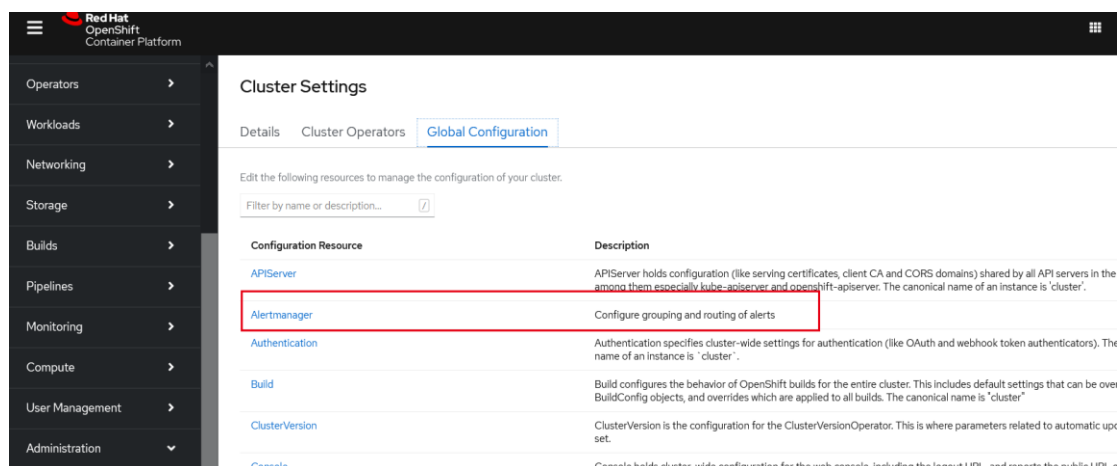
规则 2：当 Pod CPU 利用率超过 10%时，触发告警。

```
apiVersion: monitoring.coreos.com/v1
kind: PrometheusRule
metadata:
  name: podcpu10
spec:
  groups:
  - name: example
  rules:
  - alert: ContainerCpuUsage
    expr: (sum(rate(container_cpu_usage_seconds_total[3m])) BY (instance, name) * 100) > 10
    for: 2m
  labels:
  severity: warning
  annotations:
  summary: Container CPU usage (instance {{ $labels.instance }})
```

当 Pod 和节点 CPU 利用率上升后，可以看到告警。

AL HostHighCpuLoad	Warning	Firing Since Jan 14, 5:14 am
AL HostHighCpuLoad	Warning	Firing Since Jan 13, 4:24 pm
AL HostHighCpuLoad	Warning	Firing Since Jan 13, 9:37 pm
AL HostHighCpuLoad	Warning	Firing Since Jan 14, 12:49 am
AL ContainerCpuUsage	Warning	Firing Since Jan 13, 11:36 pm
AL ContainerCpuUsage	Warning	Firing Since Jan 13, 11:36 pm
AL ContainerCpuUsage	Warning	Firing

接下来，我们展示配置邮件转发告警。



我们可以根据需求定义 Receiver:

Receivers		
Filter Receivers by Name...		
Create Receiver		
Name	Integration Type	Routing Labels
Critical	email	severity=critical
davidwei	email	severity=warning
Default	email	All (default receiver)
Watchdog	email	alertname=Watchdog

我们以 DavidWei 的举例。

在配置中，我定义了接收告警级别、邮件服务器。需要注意的是，在 Auth Password 位置，需要输入邮箱的授权码。

Edit Email Receiver

Receiver Name *

Critical

Receiver Type *

Email

To Address *

35094918@qq.com

The email address to send notifications to.

SMTP Configuration

☐ Save as default SMTP configuration ⓘ

From Address *

35094918@qq.com

The email address to send notifications from.

SMTP Smarthost *

smtp.qq.com:465

Smarthost used for sending emails, including port number.

SMTP Hello *

localhost

The hostname to identify to the SMTP server.

Auth Username

35094918

Auth Password (Using LOGIN and PLAIN)

.....

Auth Identity (Using PLAIN)

Auth Secret (CRAM-MDS)

☐ Require TLS

› [Show advanced configuration](#)

Routing Labels *

☐ Require TLS

› [Show advanced configuration](#)

Routing Labels *

Firing alerts with labels that match all of these selectors will be sent to this receiver. Label values can be matched exactly or with a [regular expression](#).

NAME

severity

VALUE

critical

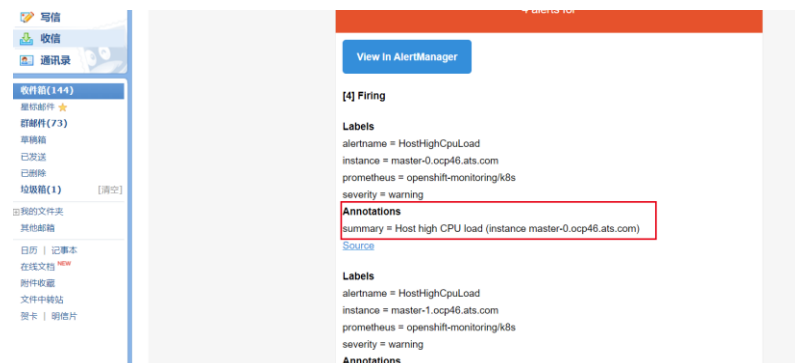
☐ Regular Expression

➕ [Add Label](#)

Save

Cancel

配置好以后，邮箱就能收到告警信息了。



写信

收信

通讯录

收件箱 (148)

星标邮件

群邮件 (73)

草稿箱

已发送

已删除

垃圾箱 (1) [清空]

我的文件夹

其他邮箱

日历 | 记事本

在线文档

附件收藏

文件中转站

QQ邮箱

mail.qq.com

魏新宁 <35094918@qq.com>

邮箱首页 | 设置 | 换肤

Q 邮

instance = 1/Z.16.32.ZZ9:10ZbU

prometheus = openshift-monitoring/k8s

severity = warning

Annotations

summary = Container CPU usage (instance 172.16.32.229:10250)

Source

Labels

alertname = ContainerCpuUsage

instance = 172.16.32.229:10250

name = k8s_blue_blue-1-kxZ76_c401_0caf09da-9bd7-421e-99d9-2767f3e55811_0

prometheus = openshift-monitoring/k8s

severity = warning

Annotations

summary = Container CPU usage (instance 172.16.32.229:10250)

Source

Labels