

第

7

节

## 定制Alertmanager邮件通知

# 本课内容

- 定制Alertmanager邮件通知
  1. 安装FakeSMTP
  2. Review alertmanager配置
  3. Helm upgrade更新alertmanager配置
  4. 校验告警邮件



# 安装FakeSMTP

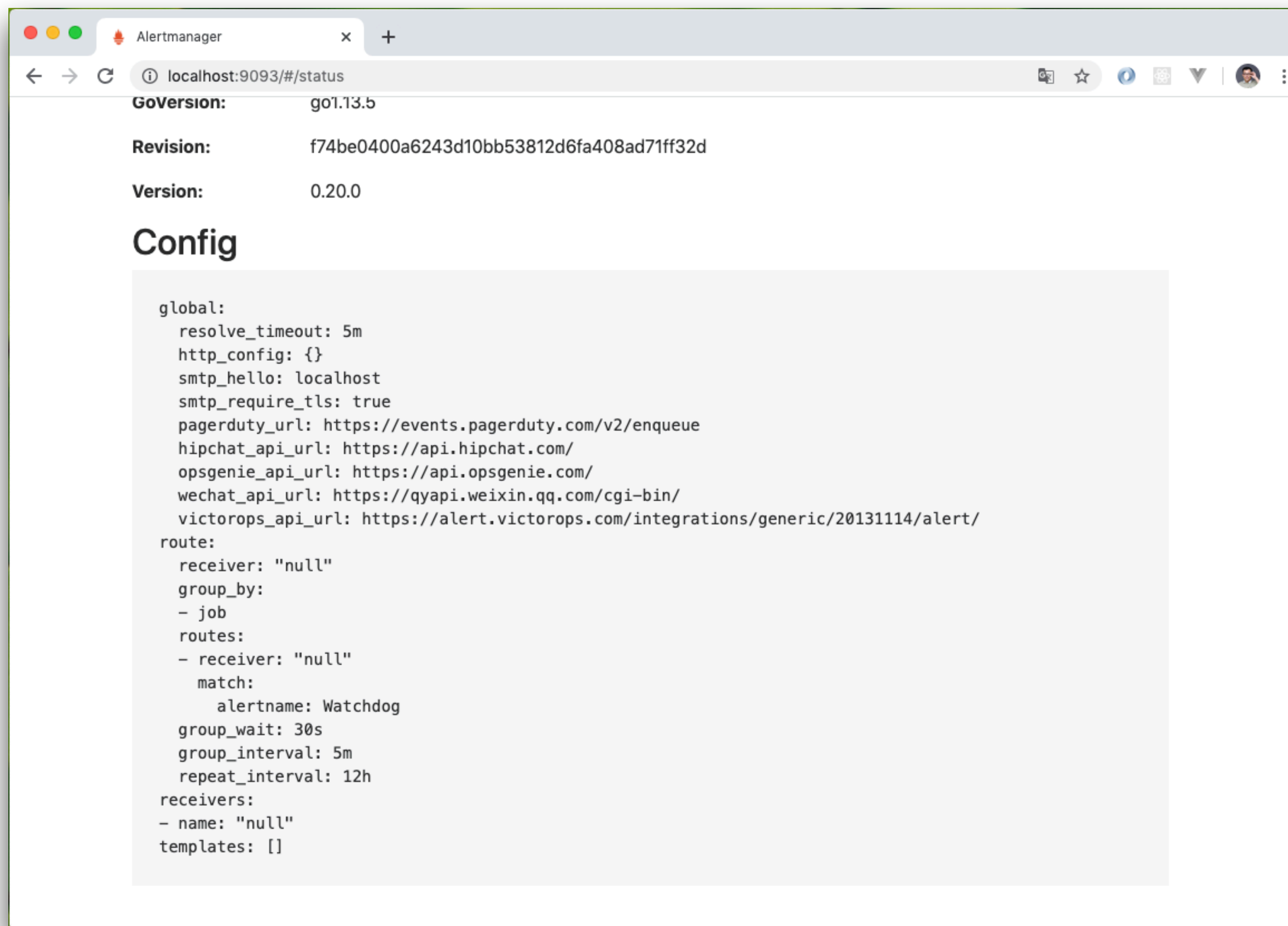


```
git clone https://github.com/Nilhcem/FakeSMTP.git  
cd FakeSMTP  
mvn package  
java -jar target/fakeSMTP-2.0-SNAPSHOT.jar -p 2525
```

# Alertmanager缺省配置(Secret)

```
1. william@jskil: ~ (zsh)
+ ~ kubectl get secret -n monitoring
NAME                                     TYPE      DATA  AGE
alertmanager-prometheus-operator-alertmanager  Opaque    1      14h
default-token-4rlb9                        kubernetes.io/service-account-token  3      3d19h
prometheus-operator-admission              Opaque    3      3d19h
prometheus-operator-alertmanager-token-6v96c  kubernetes.io/service-account-token  3      14h
prometheus-operator-grafana                Opaque    3      14h
prometheus-operator-grafana-test-token-49nqj  kubernetes.io/service-account-token  3      14h
prometheus-operator-grafana-token-qvsj6      kubernetes.io/service-account-token  3      14h
prometheus-operator-kube-state-metrics-token-vq5pq  kubernetes.io/service-account-token  3      14h
prometheus-operator-operator-token-t76bz      kubernetes.io/service-account-token  3      14h
prometheus-operator-prometheus-node-exporter-token-87f25  kubernetes.io/service-account-token  3      14h
prometheus-operator-prometheus-token-64wzm     kubernetes.io/service-account-token  3      14h
prometheus-prometheus-operator-prometheus      Opaque    1      14h
prometheus-prometheus-operator-prometheus-tls-assets  Opaque    0      14h
sh.helm.release.v1.prometheus-operator.v1      helm.sh/release.v1                  1      14h
+ ~ kubectl get secret -n monitoring alertmanager-prometheus-operator-alertmanager -o go-template='{{ index .data "alertmanager.yaml" }}' |
base64 --decode
global:
  resolve_timeout: 5m
receivers:
- name: "null"
route:
  group_by:
  - job
  group_interval: 5m
  group_wait: 30s
  receiver: "null"
  repeat_interval: 12h
  routes:
  - match:
    alertname: Watchdog
    receiver: "null"
```

# Alertmanager缺省配置(UI)



# alertmanager config更新

```
1 # Configuration for alertmanager
2 alertmanager:
3   config:
4     global:
5       smtp_from: alertmanager@gmail.com
6       smtp_require_tls: false
7       smtp_smarthost: 192.168.0.100:2525
8       resolve_timeout: 5m
9     route:
10      group_by: ["job"]
11      group_wait: 30s
12      group_interval: 5m
13      repeat_interval: 12h
14      receiver: "fake_email"
15      routes:
16      - match:
17        | alertname: Watchdog
18        | receiver: "null"
19      #This inhibit rule is a hack from: https://stackoverflow.com/questions/54806336/how-to-silence-prometheus-alertmanager-using-config-files/54814033#54814033
20      inhibit_rules:
21      - target_match_re:
22        | alertname: ".+0vercommit"
23        source_match:
24        | alertname: "Watchdog"
25        equal: ["prometheus"]
26      receivers:
27      - name: "null"
28      - name: "fake_email"
29        email_configs:
30        - send_resolved: true
31        | to: me@gmail.com
```

<https://github.com/helm/charts/blob/master/stable/prometheus-operator/values.yaml>

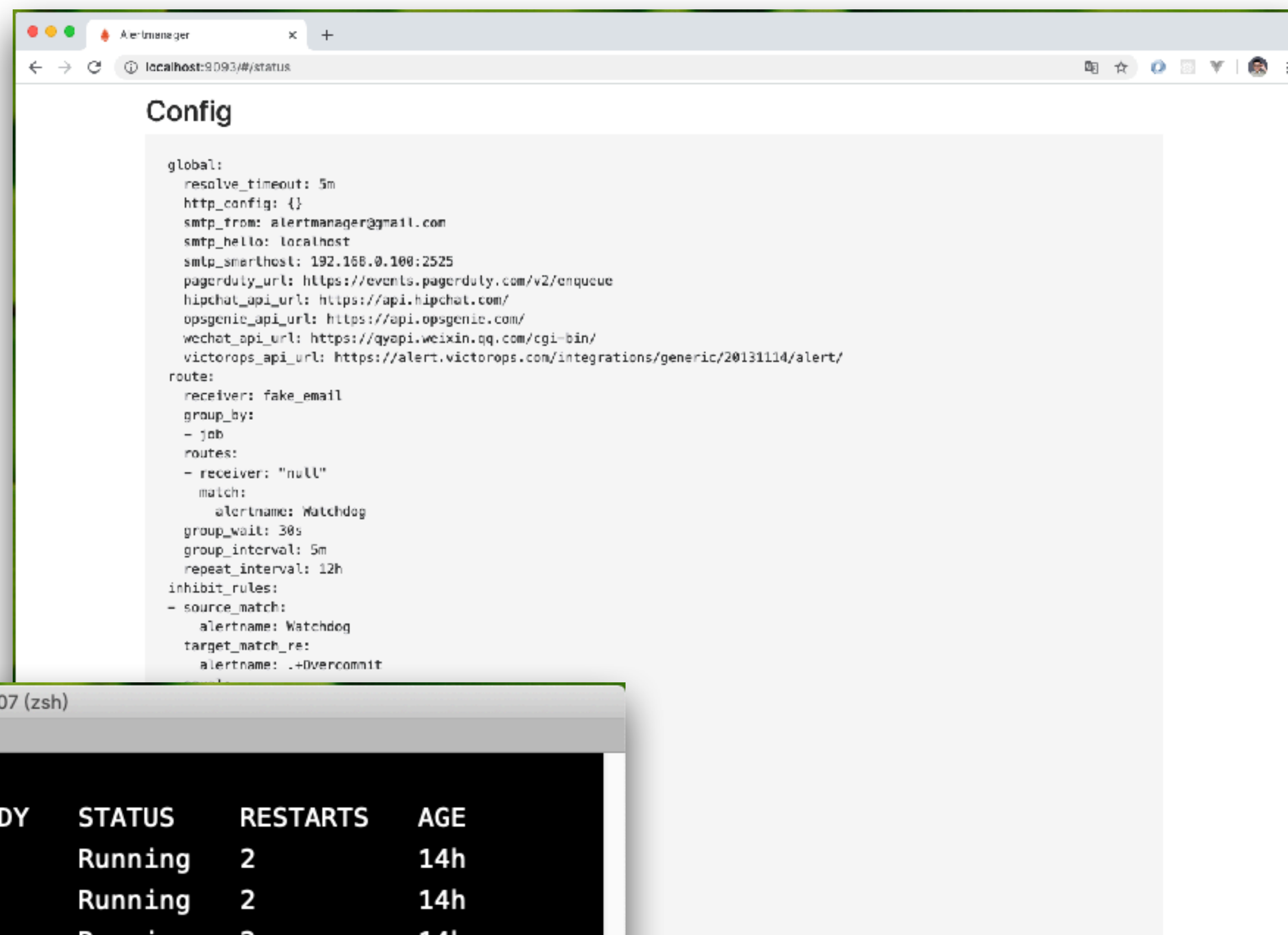


# 更新prometheus-operator release

```
1. william@jskill: ~/csdn/k8s-msa-in-action/ch08/07 (zsh)
→ ~ clear
→ ~ cd csdn/k8s-msa-in-action
→ k8s-msa-in-action git:(master) x ls
LICENSE  README.md  ch05      ch07      ch08
→ k8s-msa-in-action git:(master) x cd ch08/07
→ 07 git:(master) x ls
petclinic_msa_dashboard_config.yml  values_alertmanager.yml  values_servicemonitor.yml
→ 07 git:(master) x helm upgrade prometheus-operator stable/prometheus-operator --values=values_alertmanager.yml -n monitoring
manifest_sorter.go:175: info: skipping unknown hook: "crd-install"
manifest_sorter.go:175: info: skipping unknown hook: "crd-install"
manifest_sorter.go:175: info: skipping unknown hook: "crd-install"
manifest_sorter.go:175: info: skipping unknown hook: "crd-install"
manifest_sorter.go:175: info: skipping unknown hook: "crd-install"
Release "prometheus-operator" has been upgraded. Happy Helming!
NAME: prometheus-operator
LAST DEPLOYED: Mon Feb 10 11:12:21 2020
NAMESPACE: monitoring
STATUS: deployed
REVISION: 2
NOTES:
The Prometheus Operator has been installed. Check its status by running:
  kubectl --namespace monitoring get pods -l "release=prometheus-operator"

Visit https://github.com/coreos/prometheus-operator for instructions on how
to create & configure Alertmanager and Prometheus instances using the Operator.
→ 07 git:(master) x helm history prometheus-operator -n monitoring
REVISION      UPDATED              STATUS      CHART                      APP VERSION      DESCRIPTION
1             Sun Feb  9 20:21:48 2020      superseded  prometheus-operator-8.7.0  0.35.0           Install complete
2             Mon Feb 10 11:12:21 2020      deployed   prometheus-operator-8.7.0  0.35.0           Upgrade complete
→ 07 git:(master) x
```

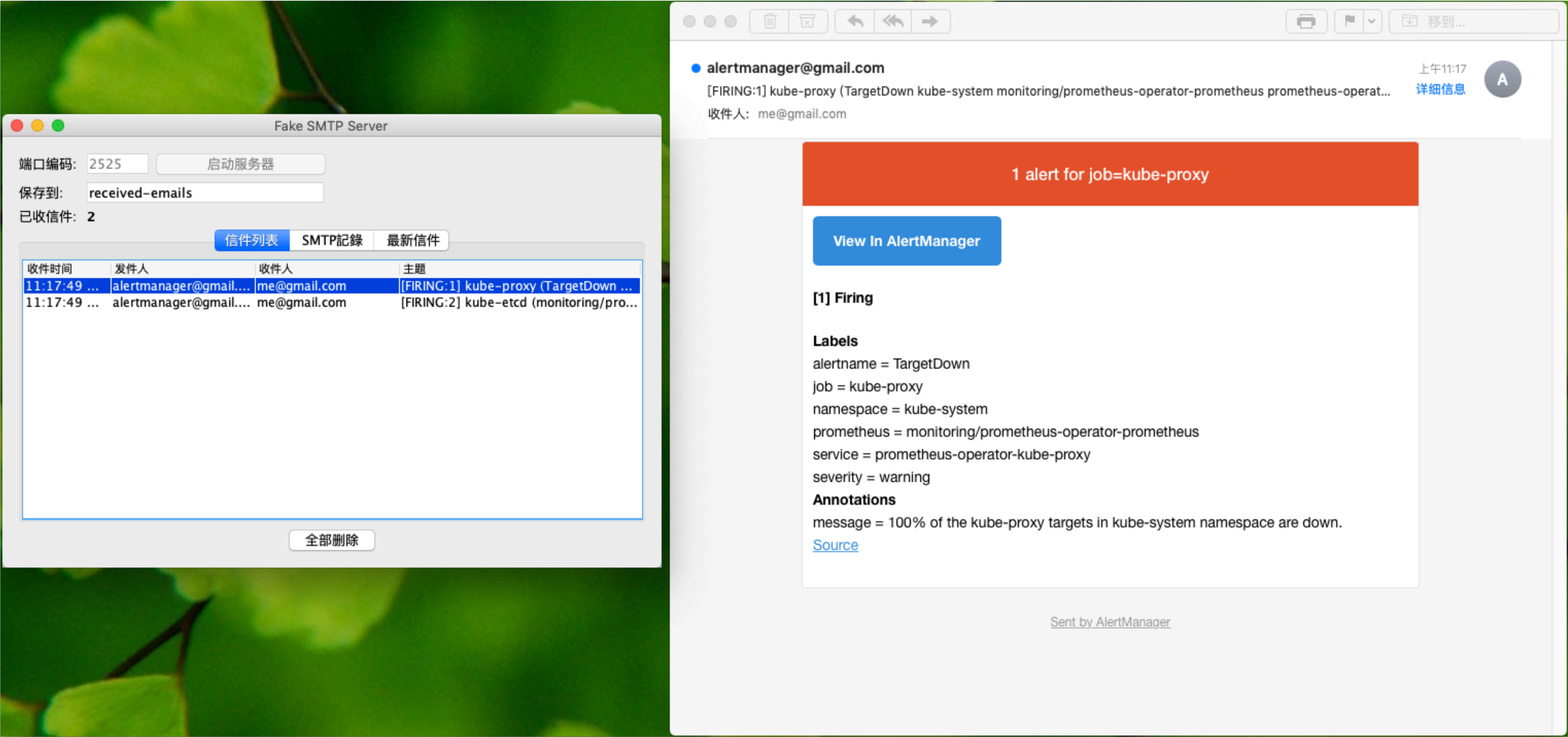
# 校验配置更新成功



```
1. william@jskill: ~/csdn/k8s-msa-in-action/ch08/07 (zsh)
X java (java) %1 X kubectl (kubectl) %2 X ..ction/ch08/07 (zsh) %3
→ 07 git:(master) X kubectl get po -n monitoring
NAME                                     READY   STATUS    RESTARTS   AGE
alertmanager-prometheus-operator-alertmanager-0   2/2     Running   2           14h
prometheus-operator-grafana-65dc66c89d-s76pm       2/2     Running   2           14h
prometheus-operator-kube-state-metrics-8467c5bdbc-jhcf  1/1     Running   2           14h
prometheus-operator-operator-6f9fd5d858-n64tq      2/2     Running   3           14h
prometheus-operator-prometheus-node-exporter-2z6rh  1/1     Running   1           14h
prometheus-prometheus-operator-prometheus-0       3/3     Running   4           14h
→ 07 git:(master) X kubectl logs -n monitoring alertmanager-prometheus-operator-alertmanager-0
error: a container name must be specified for pod alertmanager-prometheus-operator-alertmanager-0,
choose one of: [alertmanager config-reloader]
→ 07 git:(master) X kubectl logs -n monitoring alertmanager-prometheus-operator-alertmanager-0 co
nfig-reloader
2020/02/10 03:13:53 config map updated
2020/02/10 03:13:53 successfully triggered reload
→ 07 git:(master) X
```



# 启动FakeSMTP接收告警



# 本课小结



- 定制Alertmanager邮件通知
  - alertmanager.config
  - helm upgrade, 通过sidecar容器更新
  - secret/alertmanager UI校验

<https://prometheus.io/docs/alerting/configuration/>