# 第一节

Promethues-Operator基本功能展示

### 本课内容

- · 展示Prometues-Operator的基本功能
  - · Promethues内置浏览器
  - Alertmanager UI
  - Grafana UI

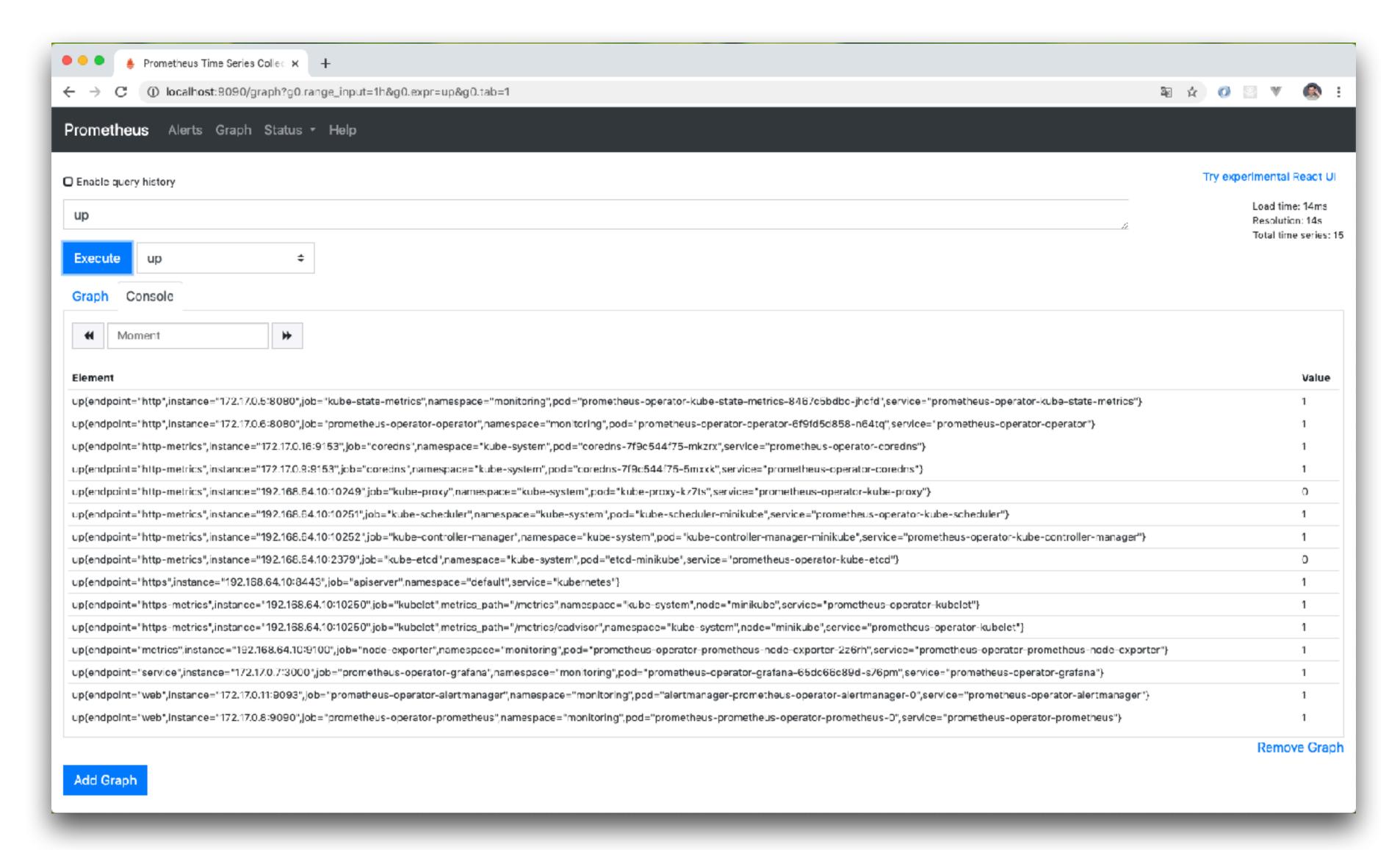


## 访问prometheus内置浏览器

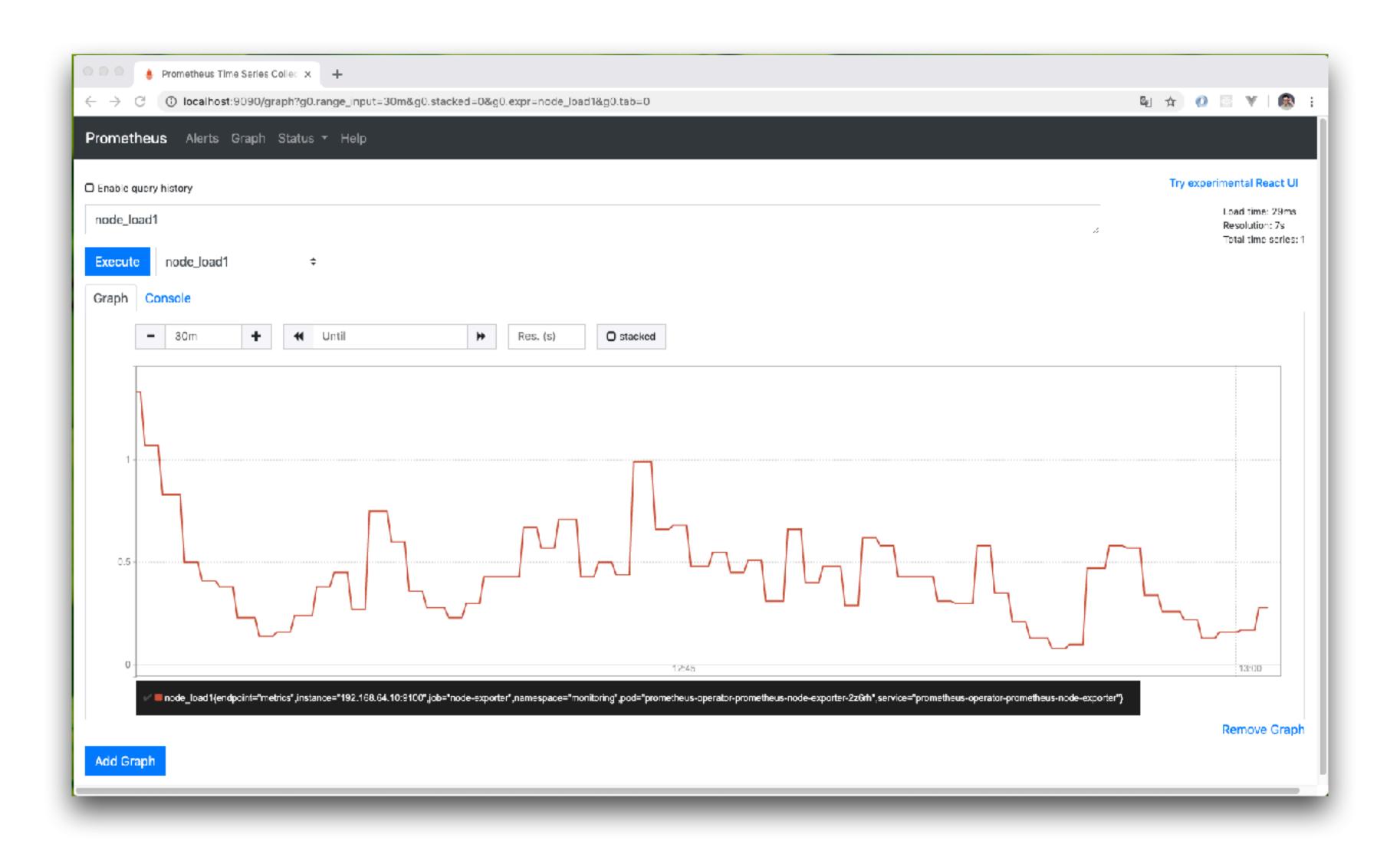
```
1. kubectl port-forward -n monitoring prometheus-prometheus-operator-prometheus- (kubectl)
→ ~ clear
→ kubectl get po -n monitoring
NAME
                                                           STATUS
                                                                    RESTARTS
                                                                              AGE
                                                    READY
alertmanager-prometheus-operator-alertmanager-0
                                                    2/2
                                                           Running
                                                                              28m
prometheus-operator-grafana-65dc66c89d-s76pm
                                                    2/2
                                                           Running
                                                                              28m
prometheus-operator-kube-state-metrics-8467c5bdbc-jhcfd
                                                    1/1
                                                           Running
                                                                              28m
prometheus-operator-operator-6f9fd5d858-n64tq
                                                    2/2
                                                           Running
                                                                              28m
prometheus-operator-prometheus-node-exporter-2z6rh
                                                    1/1
                                                           Running
                                                                              28m
                                                    3/3
prometheus-prometheus-operator-prometheus-0
                                                           Running 1
                                                                              27m
Forwarding from 127.0.0.1:9090 -> 9090
Forwarding from [::1]:9090 -> 9090
```

http://localhost:9090

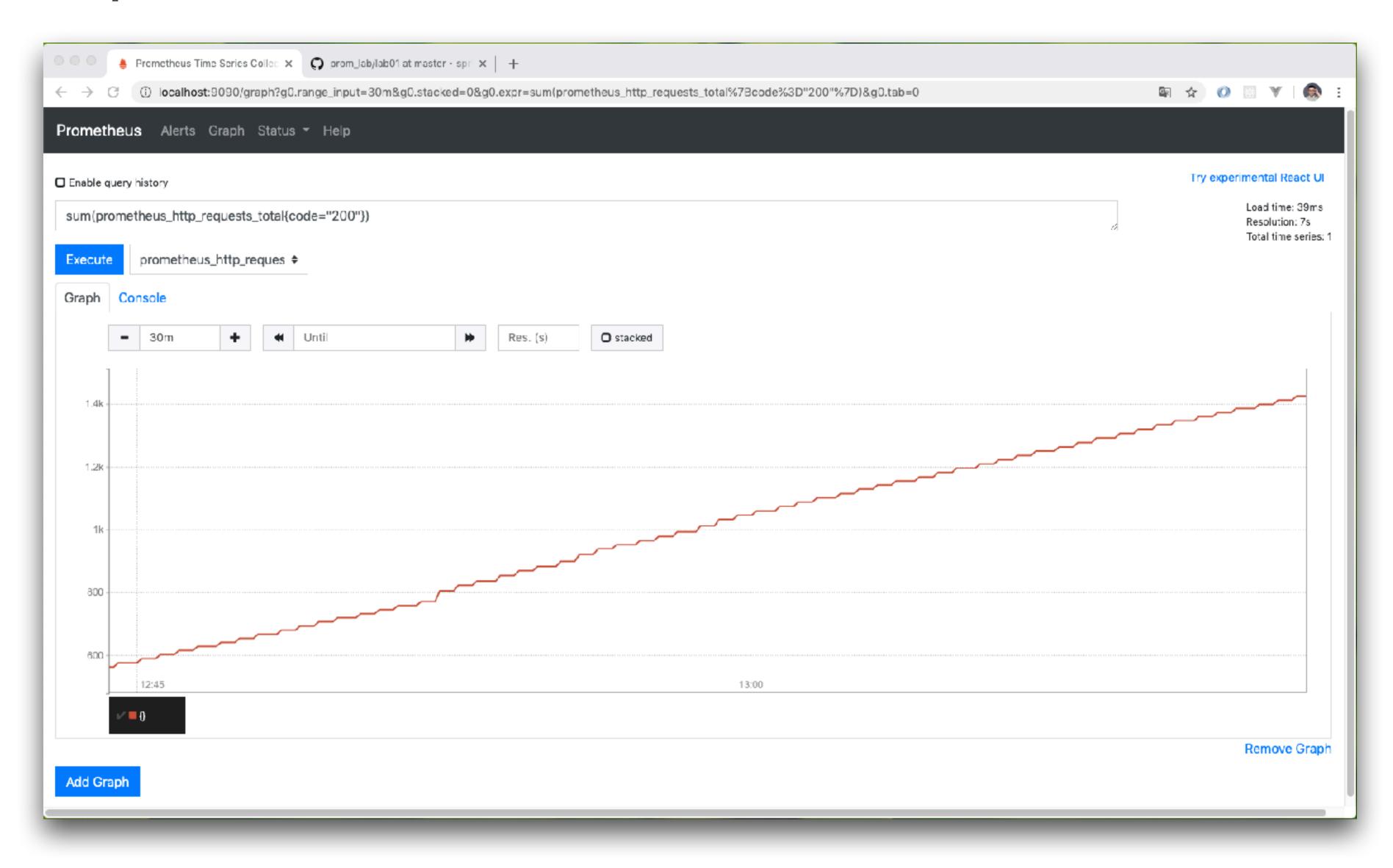
## up指标



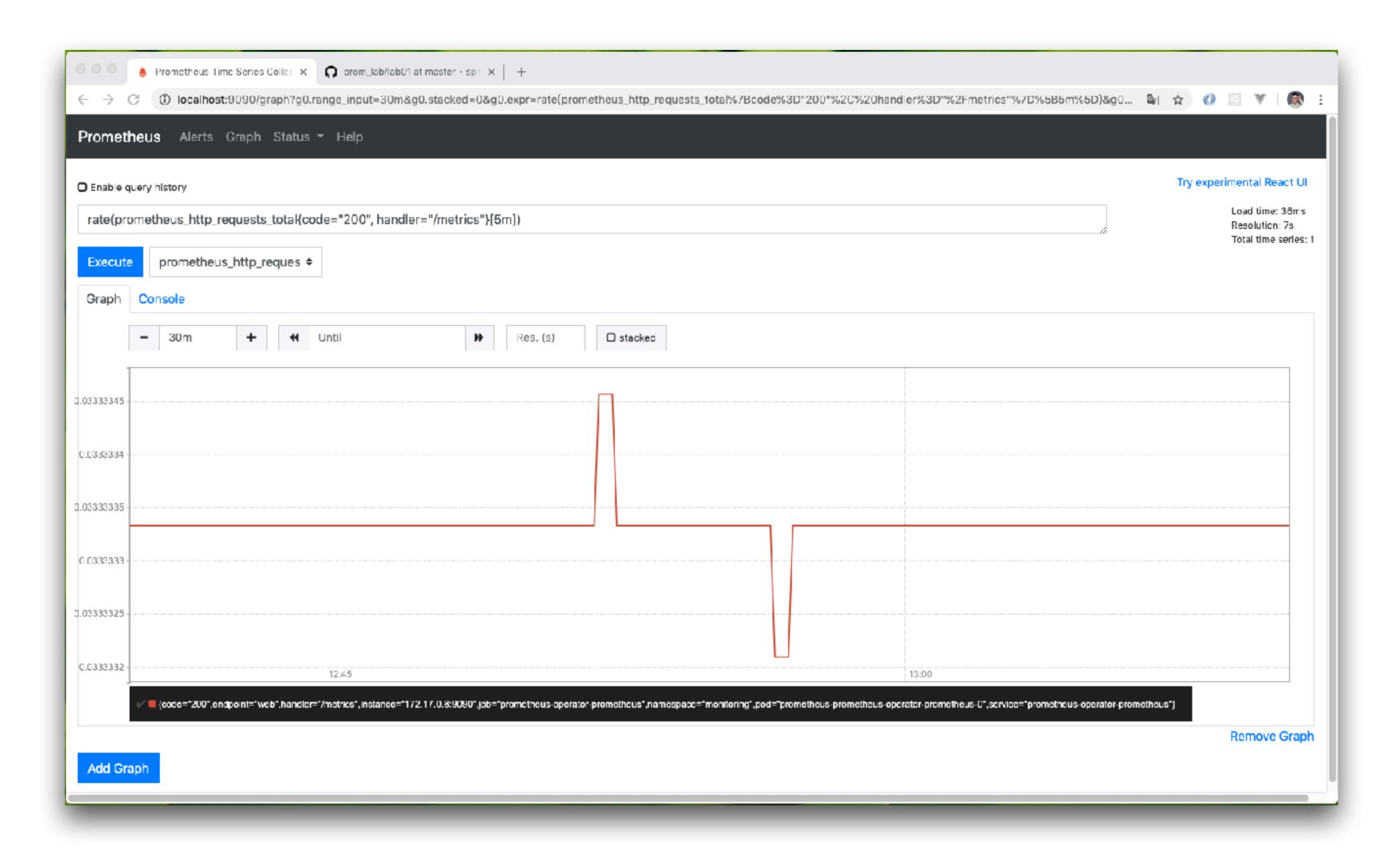
# node\_load1指标



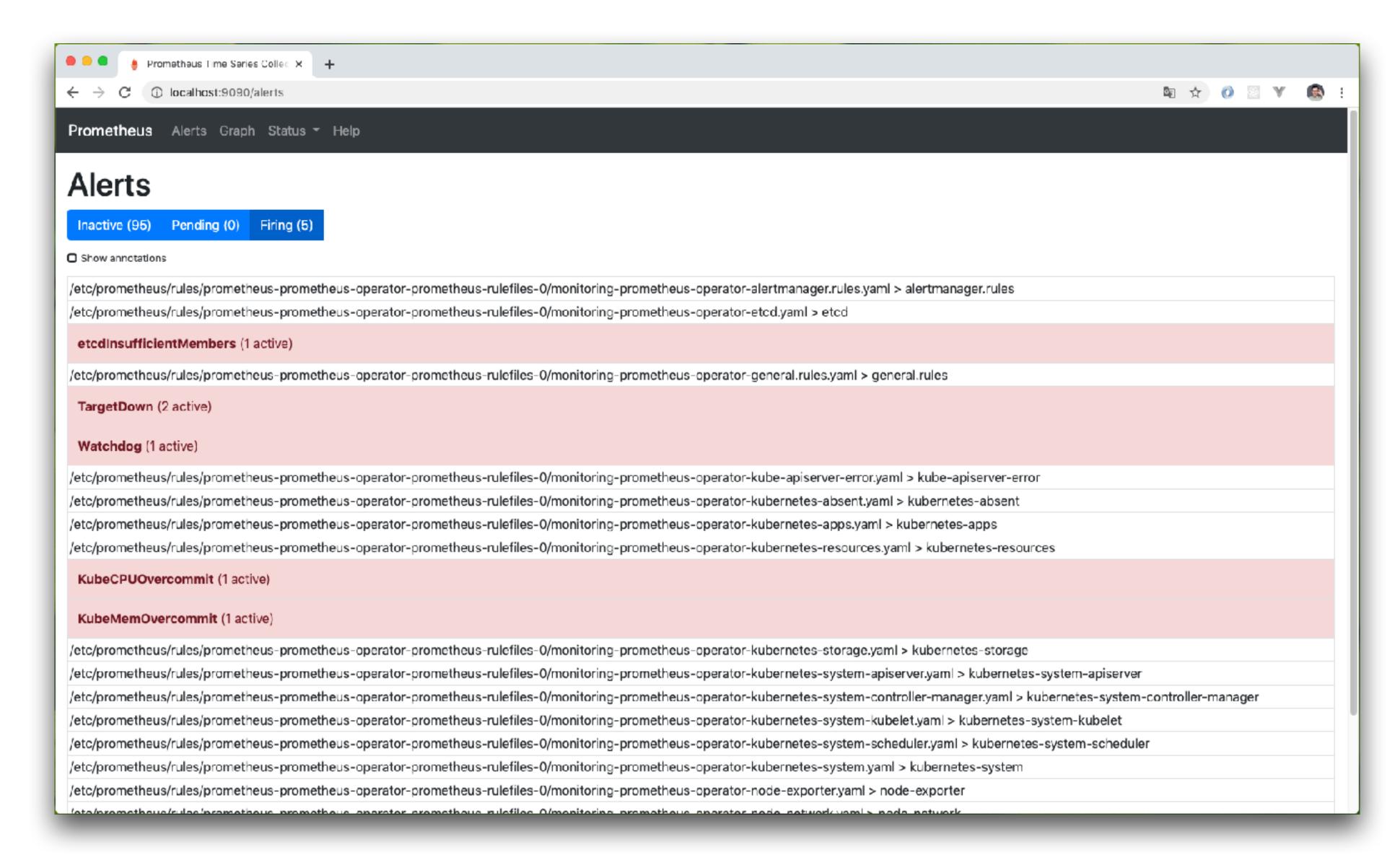
# 查询对promethues web总的成功请求数



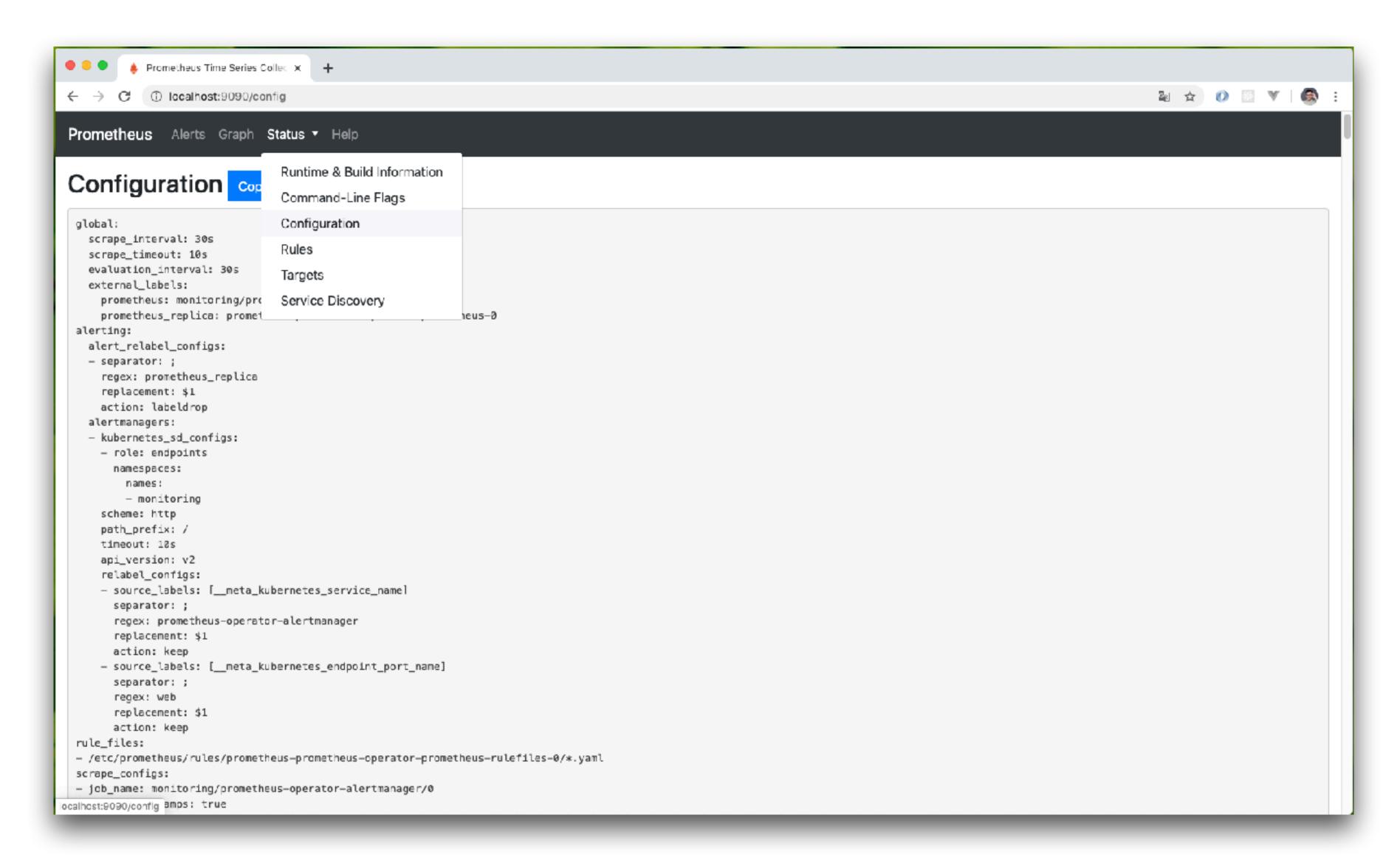
# 查询对promethues metrics端点的成功请求率



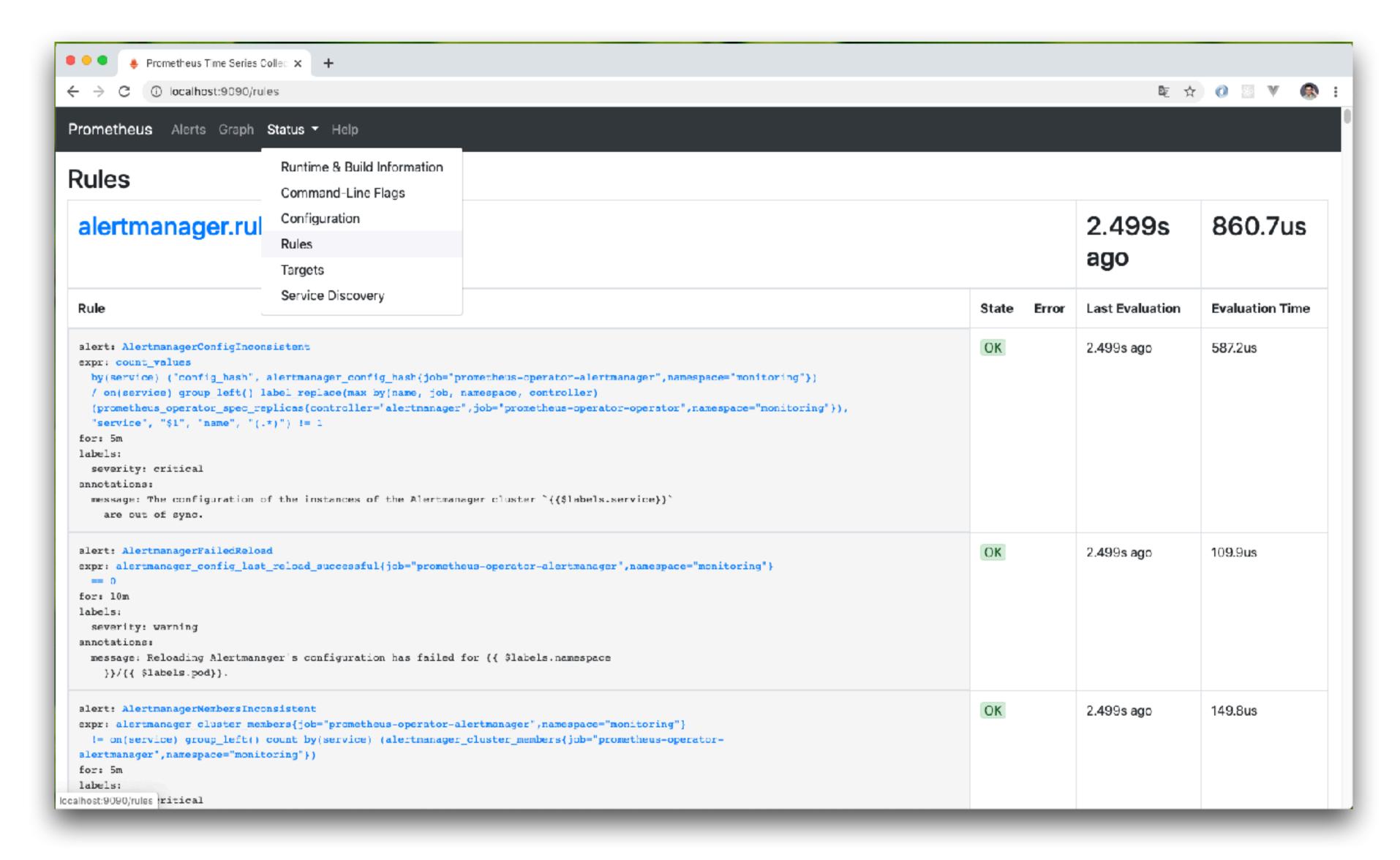
### 告警信息



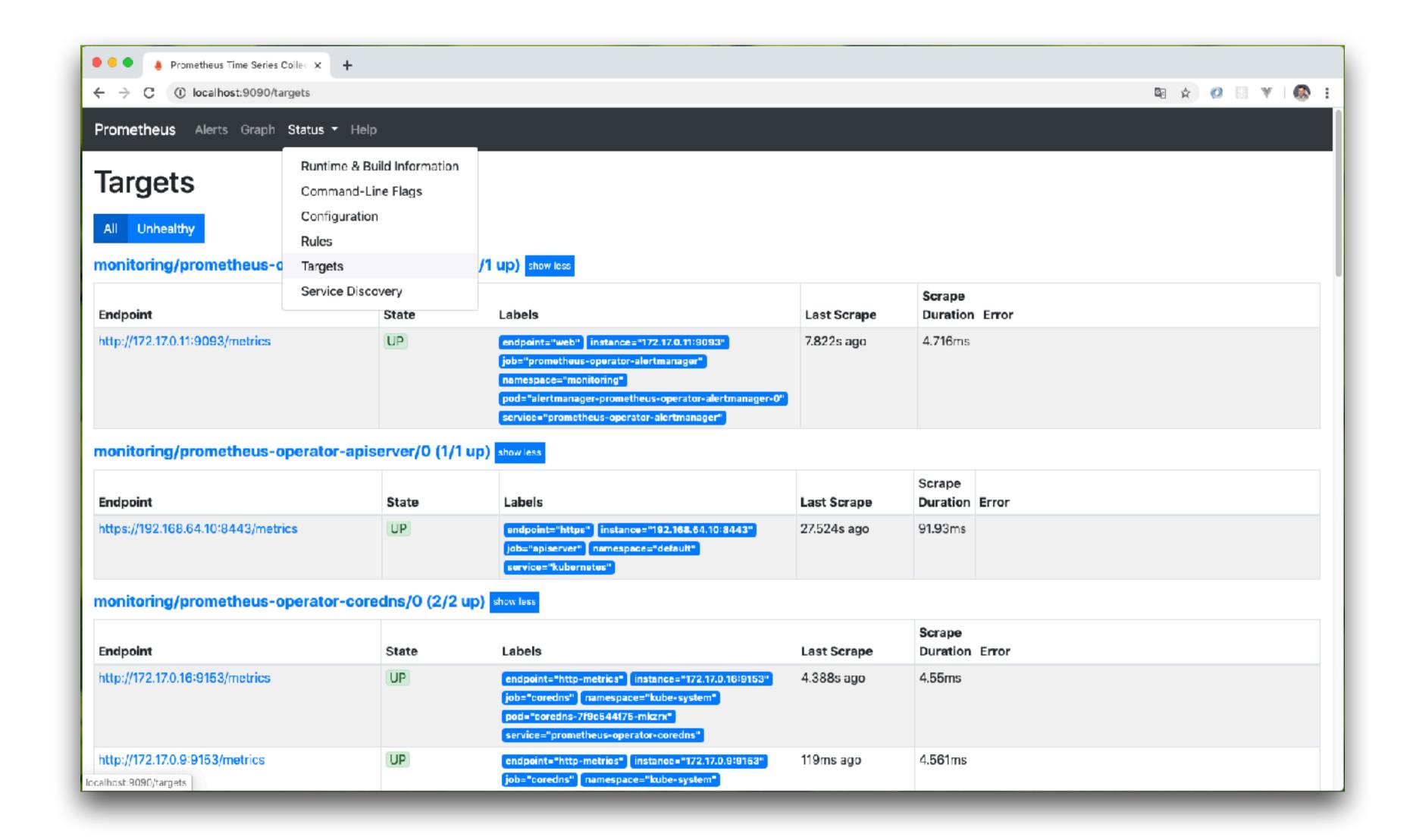
# 配置信息Configuration



# 告警(alert)和聚合(record)规则Rules



# 监控目标Targets



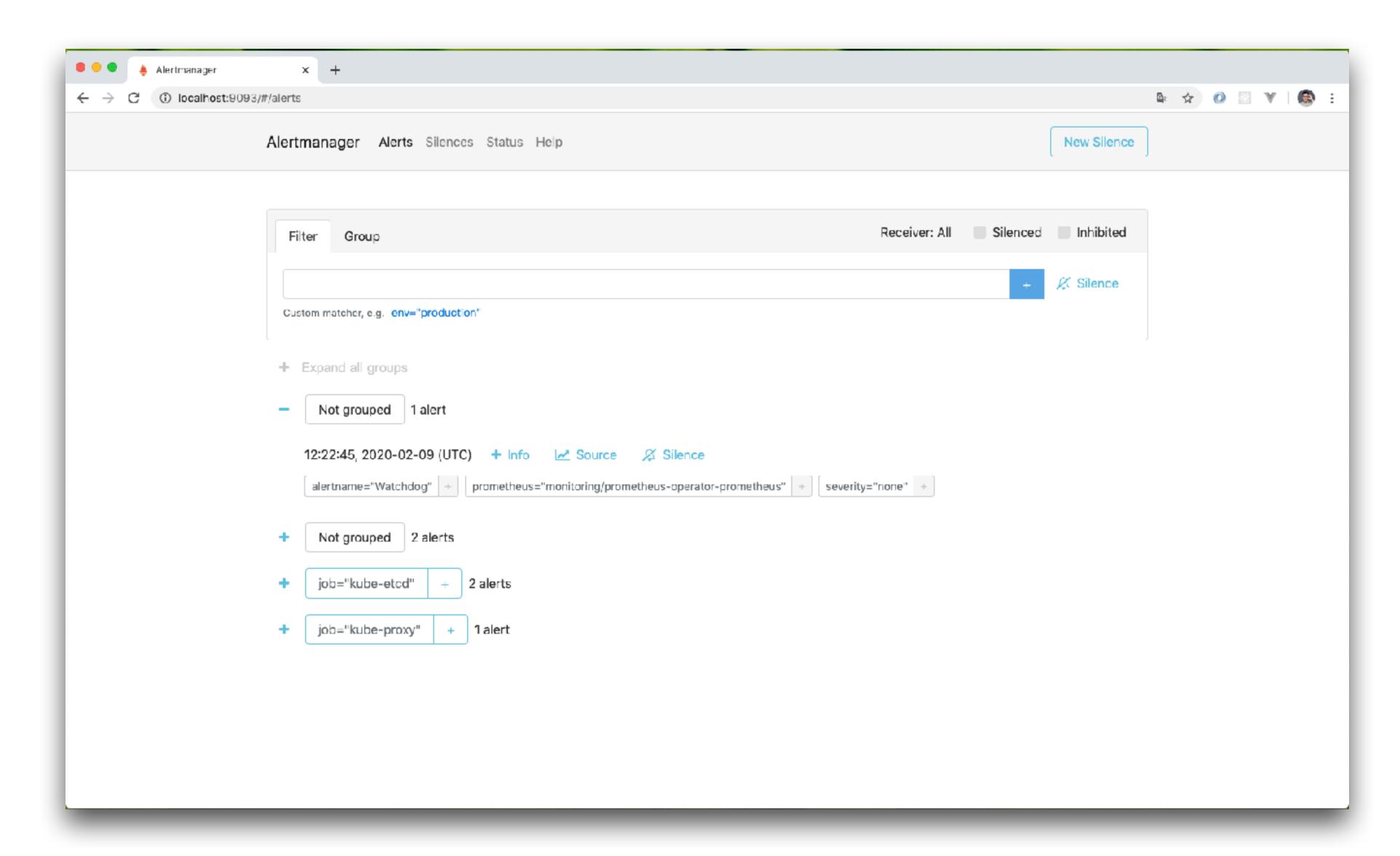
## 访问Alertmanger UI

```
    kubectl port-forward -n monitoring 9093 (kubectl)

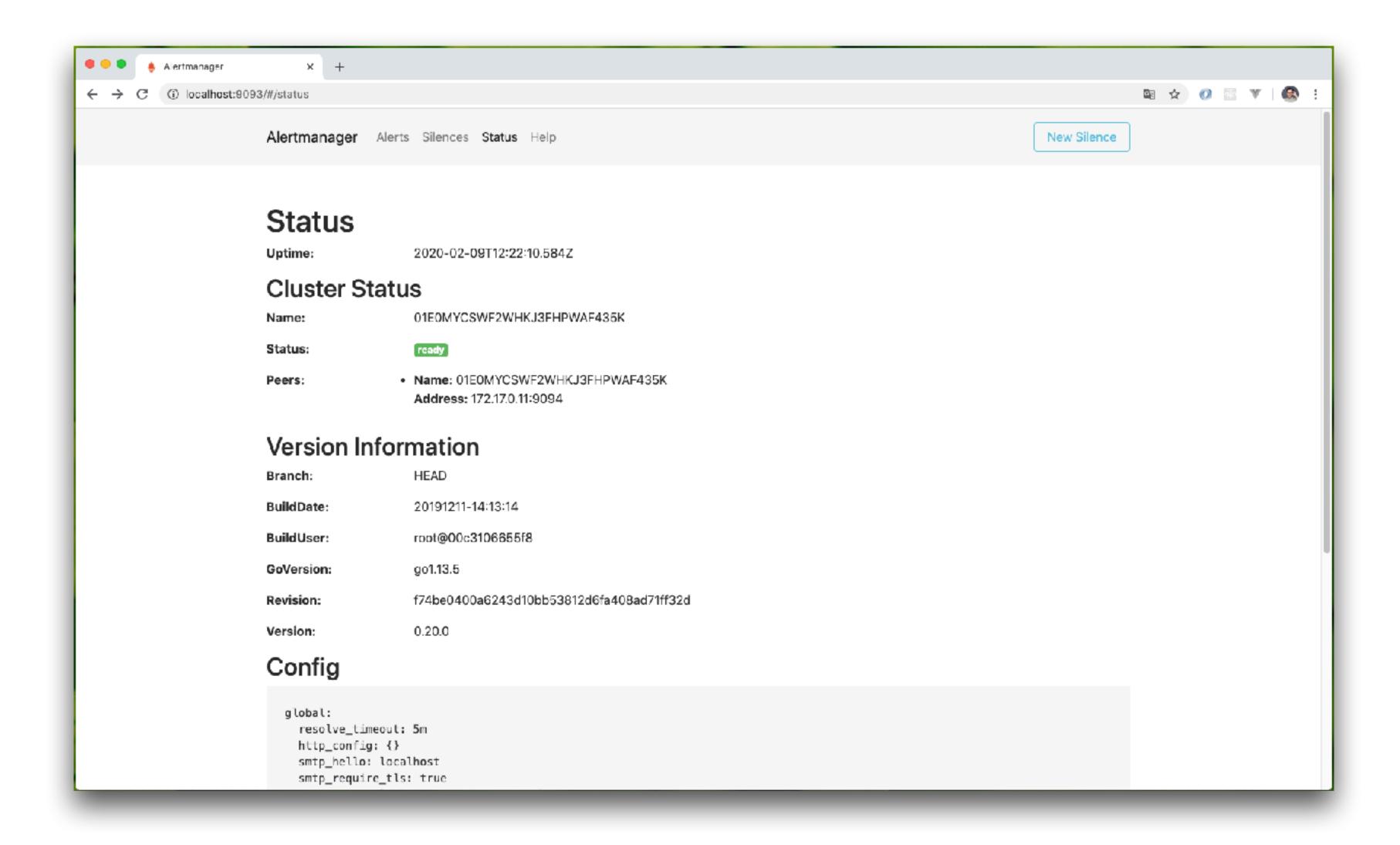
× kubectl (kubectl) #1 × kubectl (kubectl) #2
Last login: Sun Feb 9 17:04:19 on ttys001
→ kubectl get po -n monitoring
NAME
                                                                    STATUS
                                                            READY
                                                                              RESTARTS
                                                                                          AGE
alertmanager-prometheus-operator-alertmanager-0
                                                                    Running
                                                            2/2
                                                                                          59m
prometheus-operator-grafana-65dc66c89d-s76pm
                                                            2/2
                                                                    Running
                                                                                          60m
prometheus-operator-kube-state-metrics-8467c5bdbc-jhcfd
                                                           1/1
                                                                                          60m
                                                                    Running
prometheus-operator-operator-6f9fd5d858-n64tq
                                                            2/2
                                                                    Running
                                                                                          60m
prometheus-operator-prometheus-node-exporter-2z6rh
                                                            1/1
                                                                    Running
                                                                                          60m
                                                                              0
prometheus-prometheus-operator-prometheus-0
                                                            3/3
                                                                    Running
                                                                                          59m
→ kubectl port-forward -n monitoring alertmanager-prometheus-operator-alertmanager-0 9093
Forwarding from 127.0.0.1:9093 -> 9093
Forwarding from [::1]:9093 -> 9093
```

http://localhost:9093

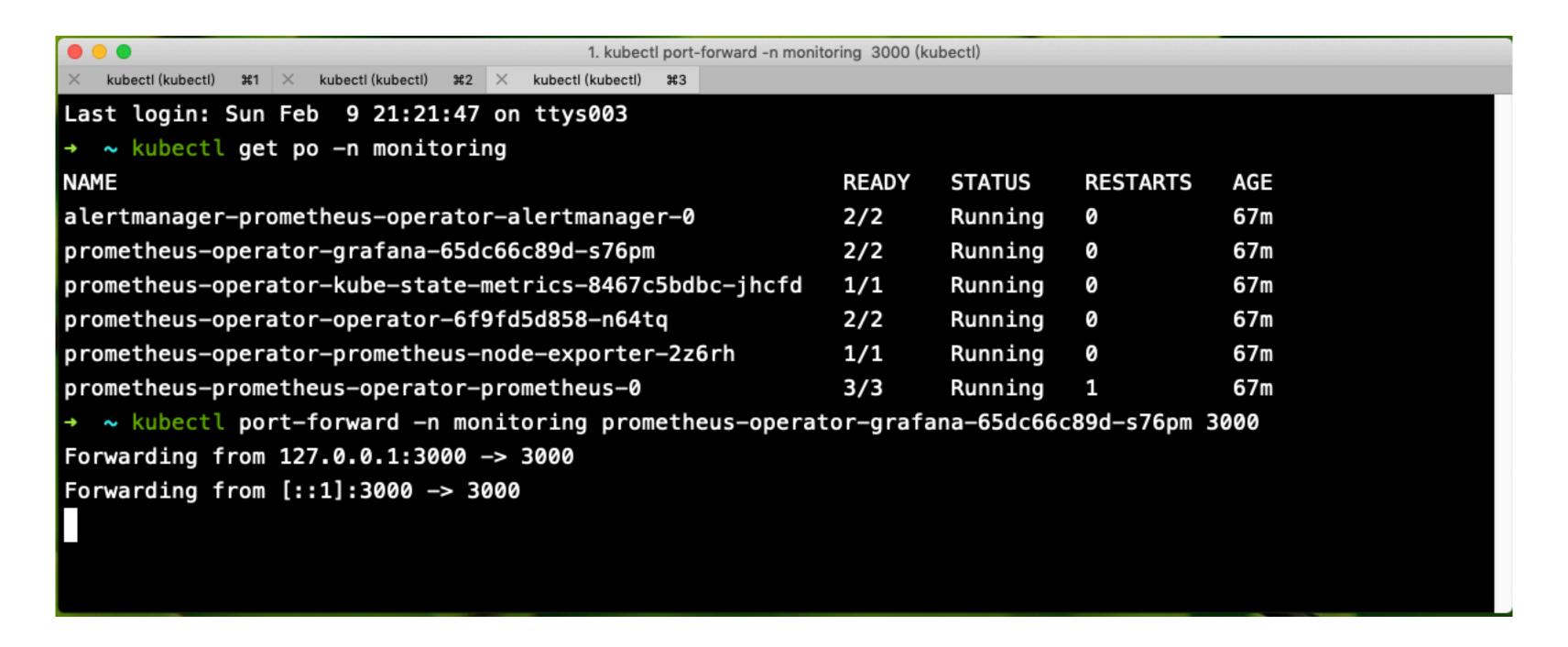
## 告警信息



### 状态和配置



### 访问Grafana UI

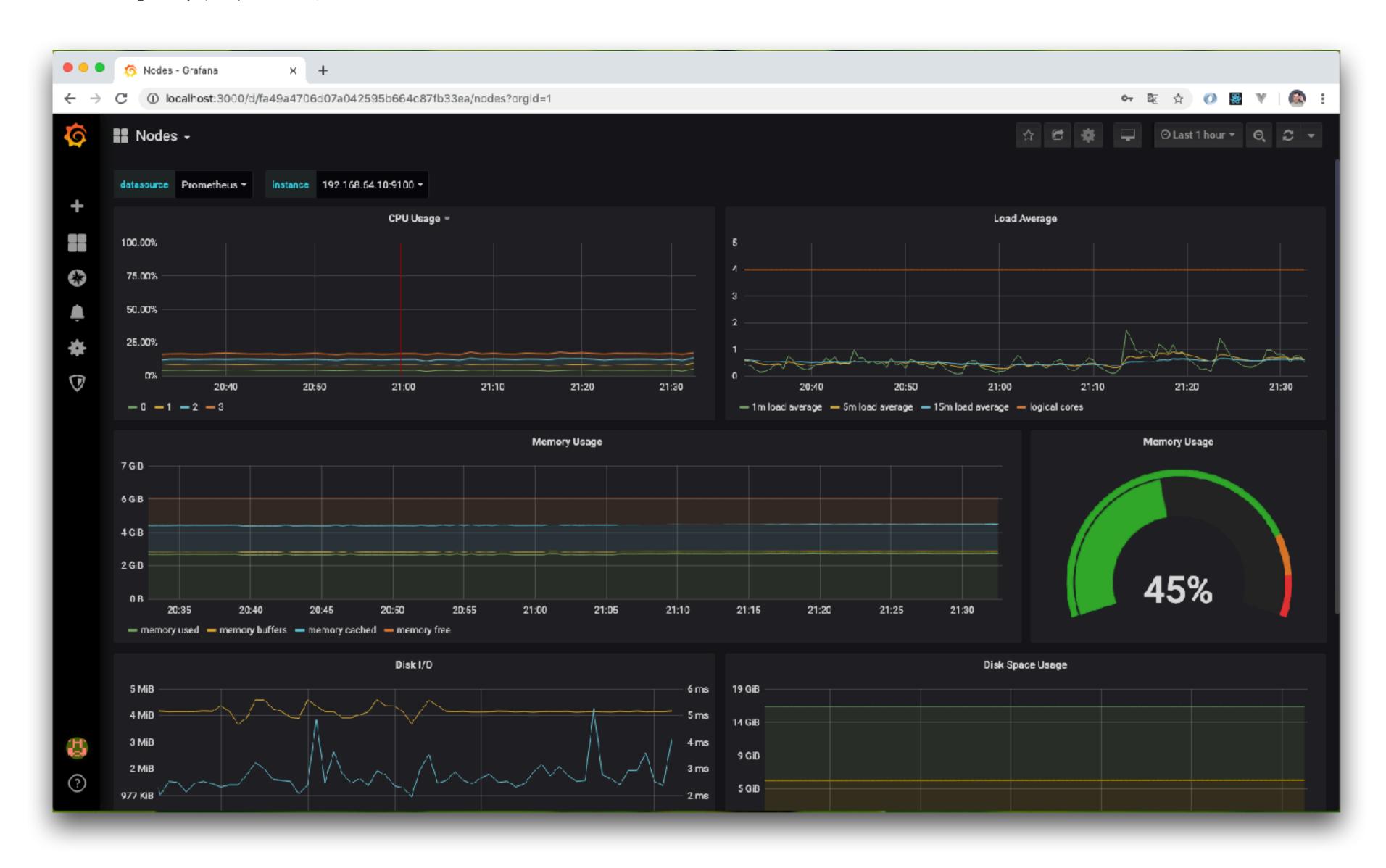


http://localhost:3000

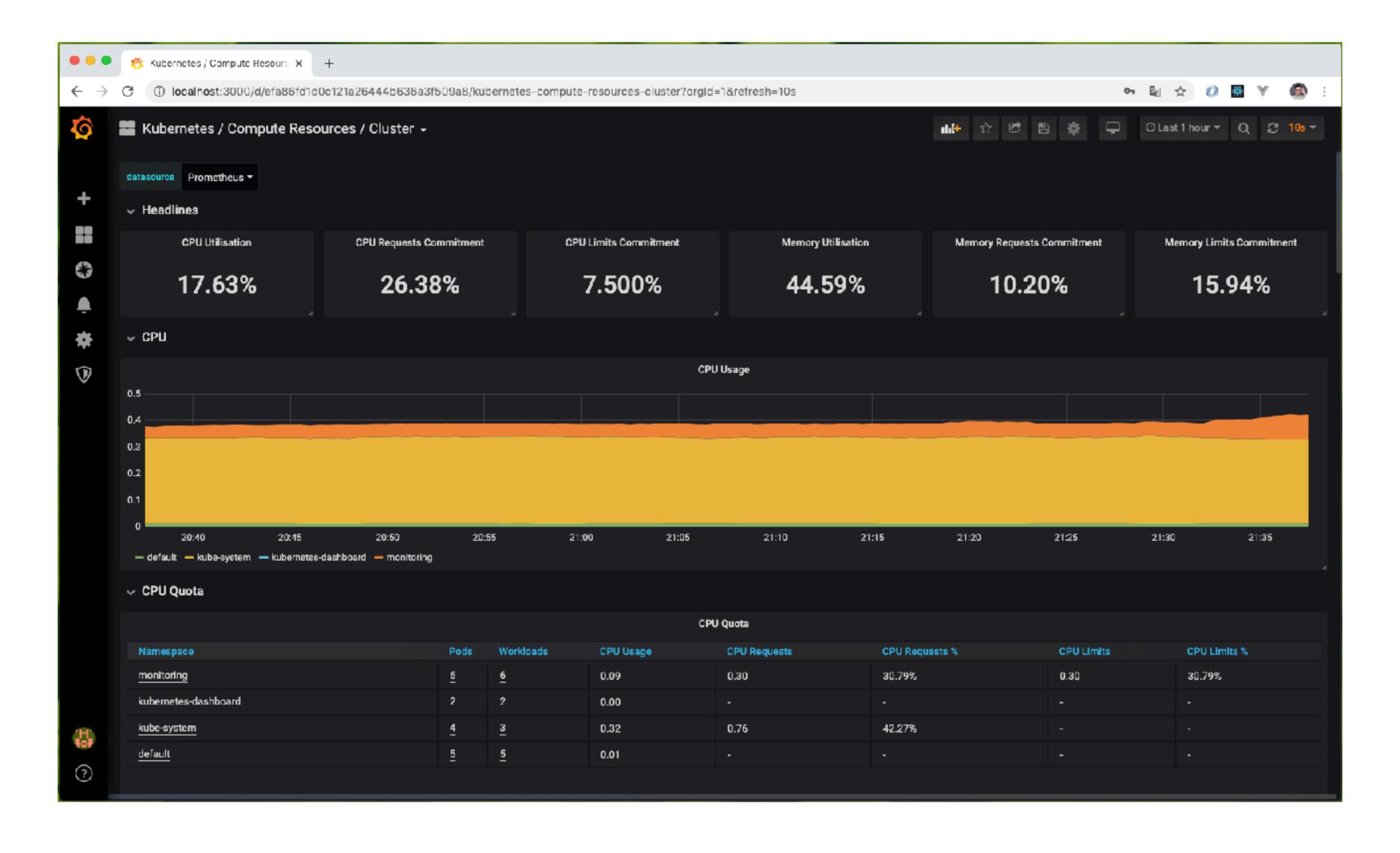
user: admin

pass: prom-operator

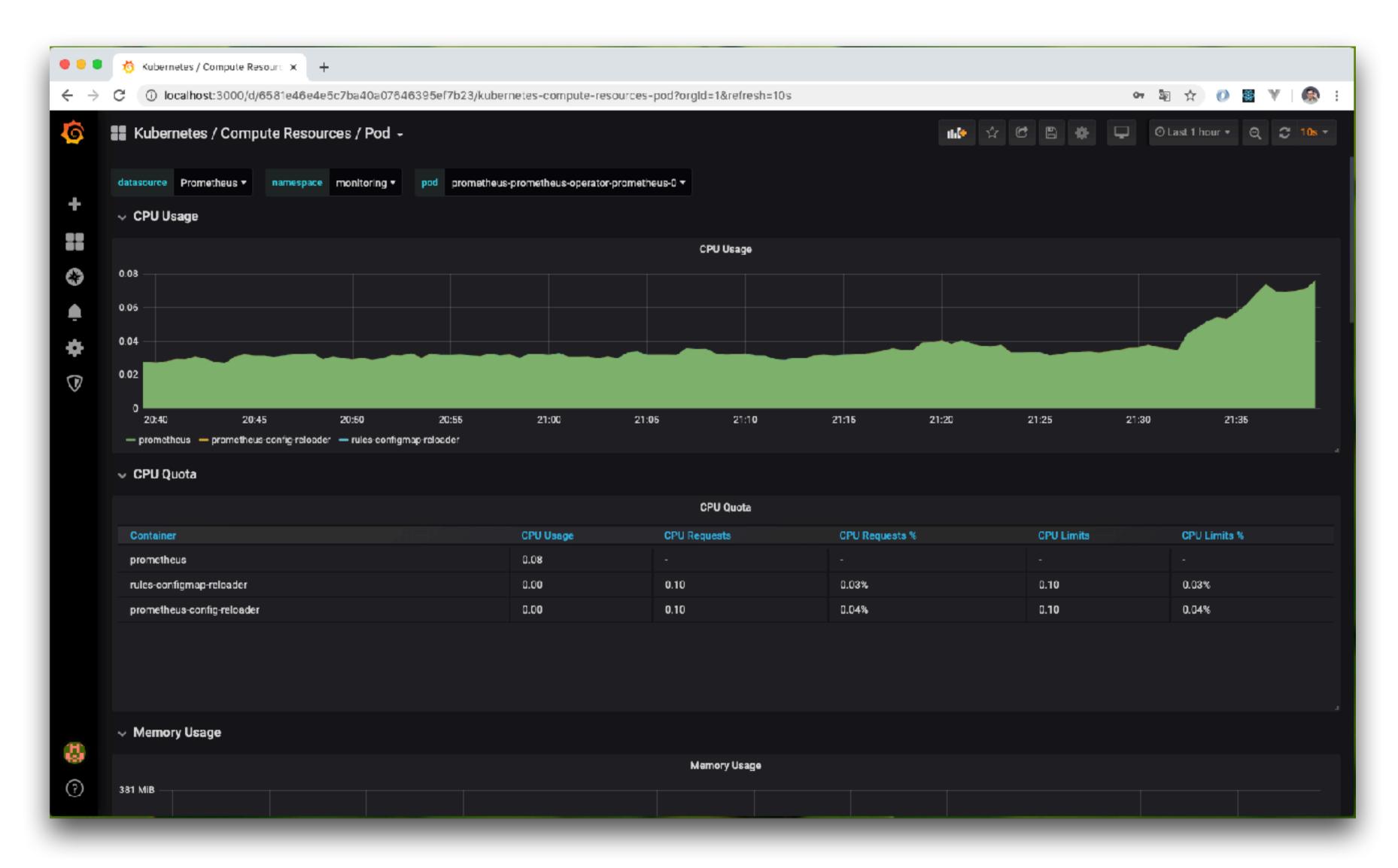
## Nodes节点监控



### K8s/Compute Resources/Cluster监控



## K8s/Compute Resources/Pod监控



### 本课小结



- · 展示Prometues-Operator的基本功能
  - · Promethues内置浏览器 ~ 快速查询和调试,查看告警和基本配置信息
  - · Alertmanager UI ~ 查询过滤告警,查看基本告警配置
  - · Grafana UI ~ 内置支持各种针对k8s平台的企业级监控dashboard