

监控部署

1. 部署prometheus

设置部署服务的节点（修改为k8s中任意一个node节点）

```
[root@k8s-master monitor]# cat prometheus/prometheus-deploy.yaml
---
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    name: prometheus-deployment
    name: prometheus
    namespace: kube-system
spec:
  replicas: 1
  selector:
    matchLabels:
      app: prometheus
  template:
    metadata:
      labels:
        app: prometheus
    spec:
      nodeName: node2
      containers:
        - image: prom/prometheus:v2.27.1
          name: prometheus
          imagePullPolicy: IfNotPresent
          command:
            - "/bin/prometheus"
          args:
            - "--config.file=/etc/prometheus/prometheus.yml"
            - "--storage.tsdb.path=/prometheus"
            - "--storage.tsdb.retention=2d"
          ports:
            - containerPort: 9090
              protocol: TCP
          securityContext:
            runAsUser: 0
          volumeMounts:
```

```
kubectl apply -f prometheus
```

```
kubectl get pod -n kube-system -o wide | grep prometheus
```

```
[root@k8s-master prometheus]# kubectl get pod -n kube-system -o wide | grep prometheus
prometheus-8d9b6c9dc-v72w8          1/1      Running    0          106m    10.42.2.145    node2    <none>    <none>
[root@k8s-master prometheus]# ^C
```

2. 部署node-exporter

```
kubectl apply -f node-exporter
```

```
kubectl get pod -n kube-system -o wide | grep node-exporter
```

```
[root@k8s-master monitor]# kubectl get pod -n kube-system -o wide | grep node-exporter
node-exporter-nzsnt                  1/1      Running    0          106m    10.106.110.7   node2    <none>    <none>
node-exporter-kzr5w                  1/1      Running    0          106m    172.16.13.92   node1    <none>    <none>
node-exporter-nkcrh                  1/1      Running    0          106m    10.106.110.80   node3    <none>    <none>
node-exporter-jp9qq                  1/1      Running    0          106m    172.16.13.90   node0    <none>    <none>
[root@k8s-master monitor]#
```

3. 部署grafana

设置部署服务的节点（修改为k8s中任意一个node节点）

```

name: grafana-core
namespace: kube-system
labels:
  app: grafana
  component: core
spec:
  selector:
    matchLabels:
      app: grafana
  replicas: 1
  template:
    metadata:
      labels:
        app: grafana
        component: core
    spec:
      nodeName: node2
      containers:
        - image: grafana/grafana:7.5.7
          name: grafana-core
          imagePullPolicy: IfNotPresent
          securityContext:
            runAsUser: 0
          resources:
            # keep request = limit to keep this container in guaranteed class
            limits:
              cpu: 2000m
              memory: 2Gi
            requests:
              cpu: 100m
              memory: 1Gi
          env:

```

```

kubectl apply -f grafana
kubectl get pod -n kube-system -o wide|grep grafana

```

```

[root@k8s-master monitor]# kubectl get pod -n kube-system -o wide|grep grafana
grafana-core-6c85bd8db-llx49      1/1      Running    0          161m    10.42.2.146    node2      <none>      <none>
[root@k8s-master monitor]#

```

4. 部署kube-state-metrics

5. kubectl apply -f kube-state-metrics

```

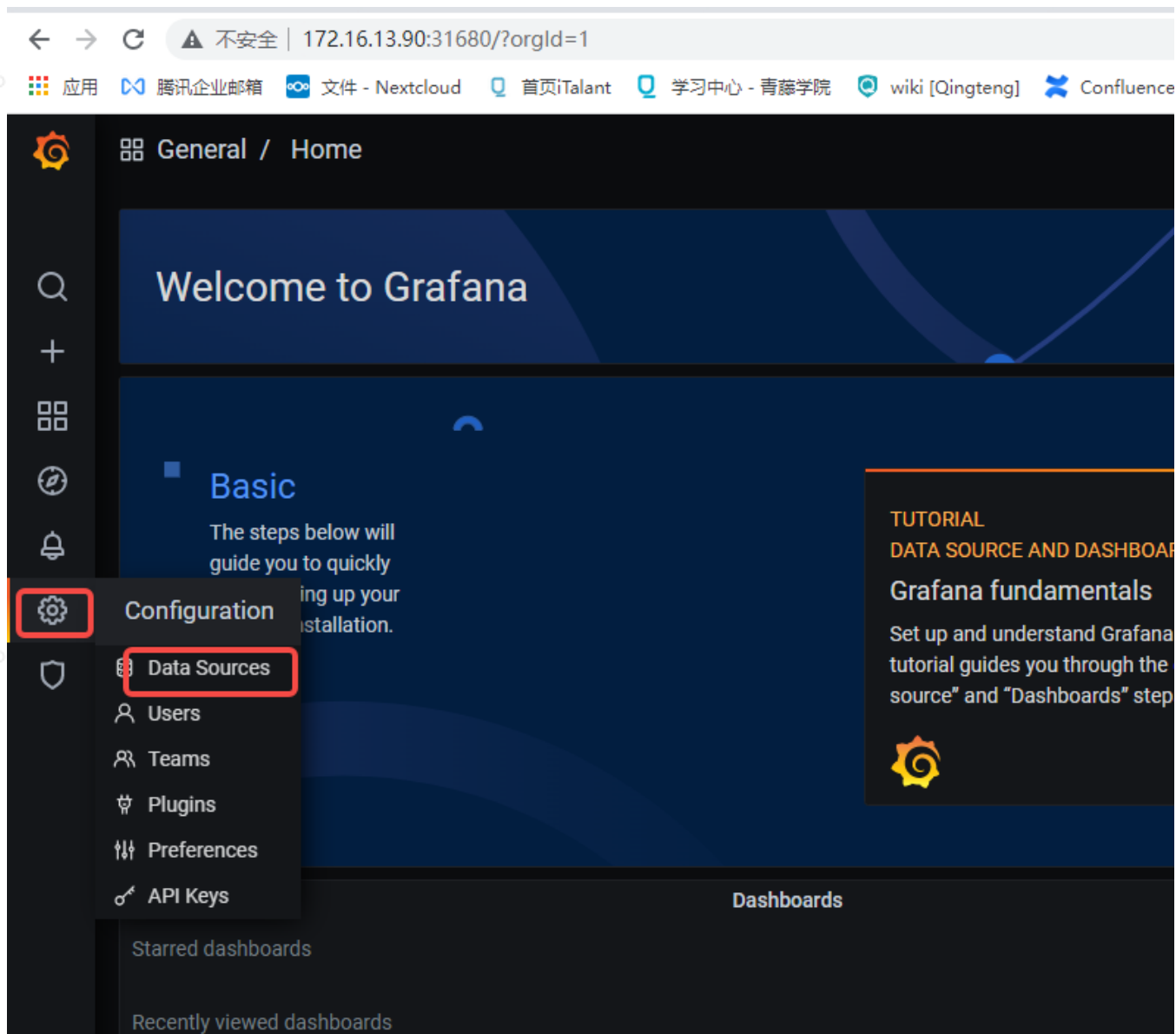
[root@k8s-master monitor]# kubectl get pod -n kube-system -o wide |grep kube-state-metrics
kube-state-metrics-cf49799f6-wpqzv 1/1      Running    0          68m    10.42.0.77     node0      <none>      <none>
[root@k8s-master monitor]#

```

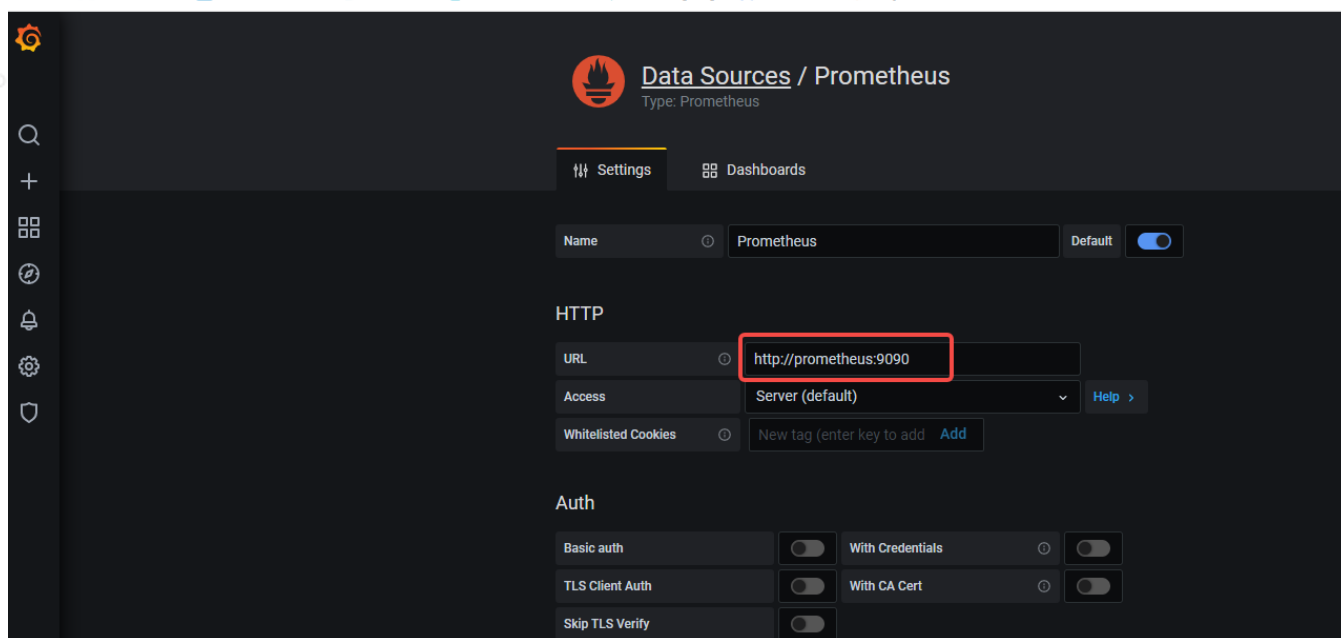
6. 设置dashboard

登录grafana地址: <http://集群任意节点IP:31680> 首次登入需要修改密码, 初始化账号密码: admin/admin

设置datasource

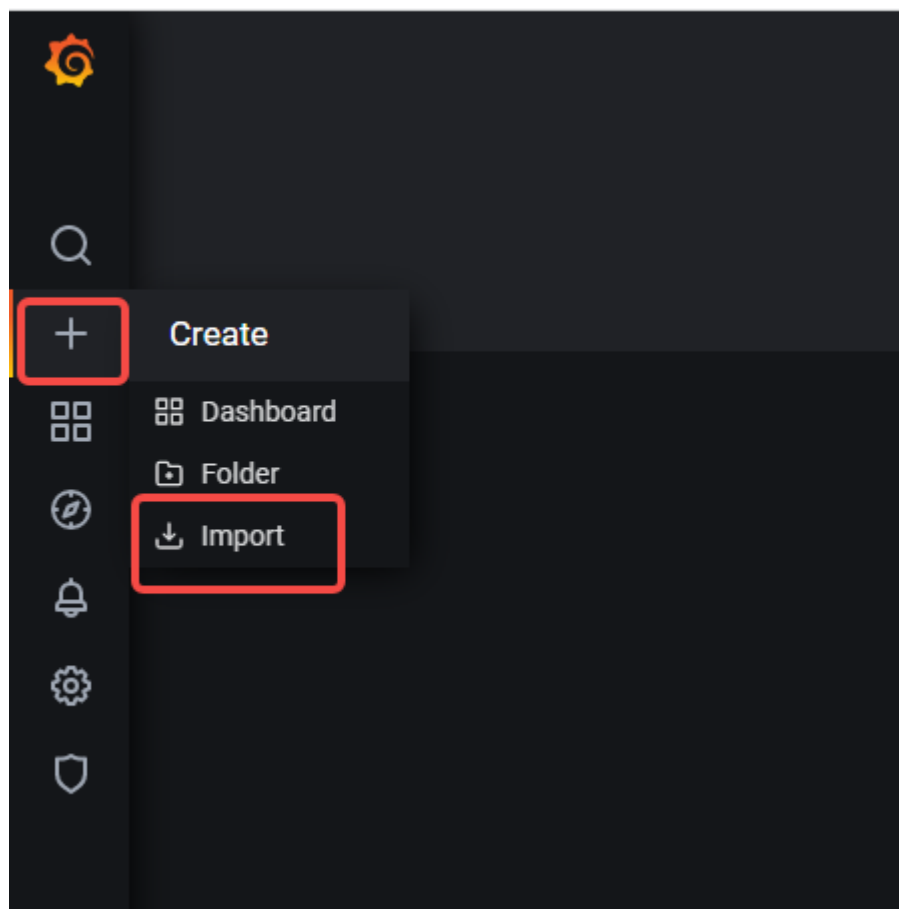


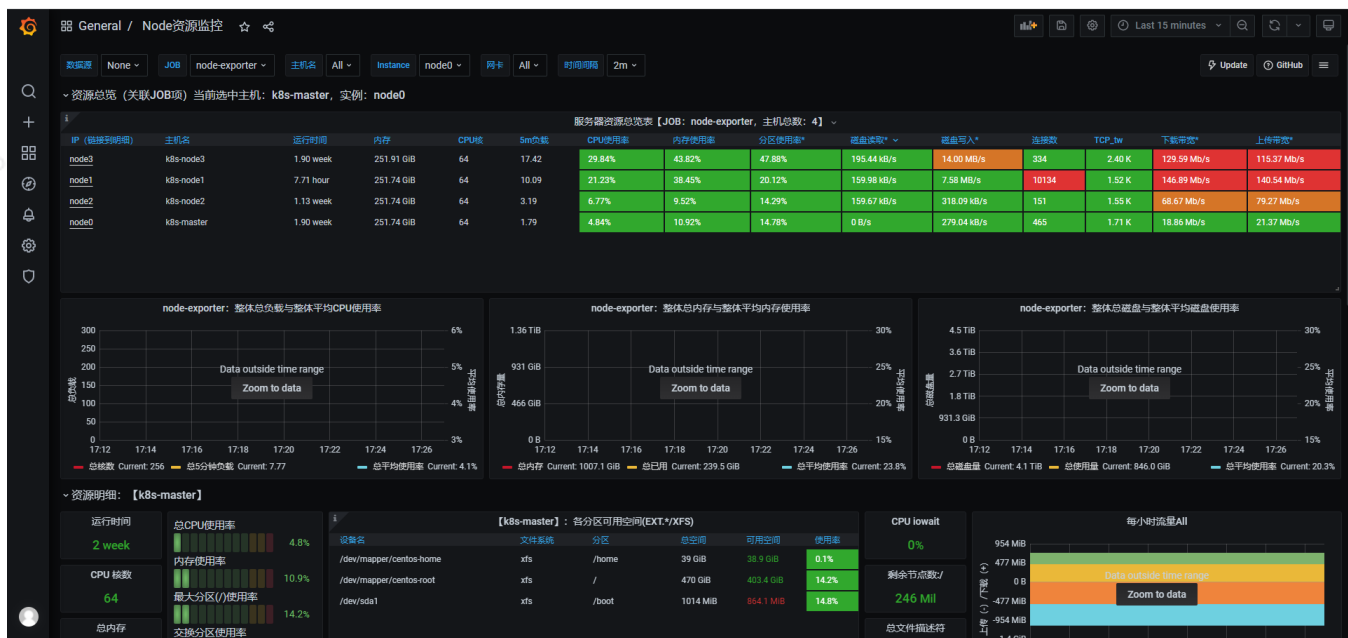
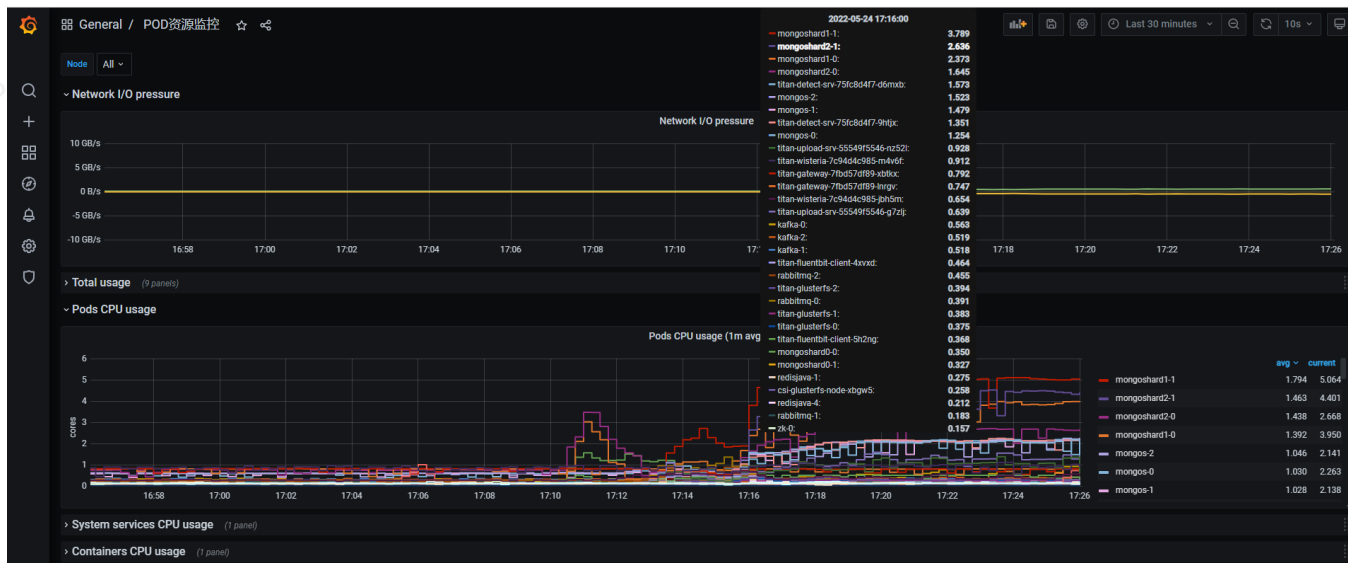
选择Data Source为Promethues，将HTTP-URL设置成K8S内Prometheus的svc地址，默认http://prometheus:9090即可



点击 Save& Test 提示Data source is working 后点击Back

导入dashboard, 现在dashboard里面的json文件





部署文件下载地址



monitor.rar

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创建者: chengbiao fu

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