

在K8s/K3s集群中安装与卸载Dashboard

Z orin 已于 2025-03-13 01:03:50 修改



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1.因为安装dashboard需要helm命令，因此首先安装helm至master节点 [Releases](#) · [helm/helm](#) · [GitHub](#) 这里网上都有教程不做阐述

2.(k8s忽略直接下一步)

helm会使用kubect!默认的KUBECONFIG配置，这里我们需要将KUBECONFIG换成k3s的否则会链接失败。在master主机上输入命令

```
export KUBECONFIG=/etc/rancher/k3s/k3s.yaml
```

3.helm下载完毕后，根据dashboard官网[GitHub - kubernetes/dashboard: General-purpose web UI for Kubernetes clusters](#)

在master主机中添加dashboard源

```
helm repo add kubernetes-dashboard https://kubernetes.github.io/dashboard/
```

之后我们直接进行一个更新

```
helm upgrade --install kubernetes-dashboard kubernetes-dashboard/kubernetes-dashboard --create-namespace --namespace kubernetes-dashboard
```

会出现以下结果

内容来源: csdn.net

作者昵称: Z orin

原文链接: <https://blog.csdn.net/Dandelin/article/details/138296061>

作者主页: <https://blog.csdn.net/Dandelin>

```
NAME: kubernetes-dashboard
LAST DEPLOYED: Sun Apr 28 09:08:59 2024
NAMESPACE: kubernetes-dashboard
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
```

```
*****
*** PLEASE BE PATIENT: Kubernetes Dashboard may need a few minutes to get up and become ready ***
*****
```

Congratulations! You have just installed Kubernetes Dashboard in your cluster.

To access Dashboard run:

```
kubectl -n kubernetes-dashboard port-forward svc/kubernetes-dashboard-kong-proxy 8443:443
```

NOTE: In case port-forward command does not work, make sure that kong service name is correct.

Check the services in Kubernetes Dashboard namespace using:

```
kubectl -n kubernetes-dashboard get svc
```

Dashboard will be available at:

```
https://localhost:8443
```

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但是我们发现外部网站并不能访问

dashboard

4.查看命名空间kubernetes-dashboard下的服务

```
kubectl -n kubernetes-dashboard get svc
```

```
[root@master ~]# kubectl -n kubernetes-dashboard get svc
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes-dashboard-kong-manager	NodePort	10.43.93.102	<none>	8002:31887/TCP, 8445:31020/TCP	109s
kubernetes-dashboard-kong-proxy	ClusterIP	10.43.213.25	<none>	443/TCP	109s
kubernetes-dashboard-api	ClusterIP	10.43.251.93	<none>	8000/TCP	109s
kubernetes-dashboard-auth	ClusterIP	10.43.195.84	<none>	8000/TCP	109s
kubernetes-dashboard-metrics-scraper	ClusterIP	10.43.255.183	<none>	8000/TCP	109s
kubernetes-dashboard-web	ClusterIP	10.43.4.171	<none>	8000/TCP	109s

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与网上常规

的只有一个kubernetes-dashboard服务不同 这里有多kubernetes-dashboard服务

网上并没有详细说明, 经过测试我发现 我们只需对kubernetes-dashboard-kong-proxy的type进行修改

5.将kubernetes-dashboard-kong-proxy的TYPE从ClusterIp修改为NodePort这样dashboard才能提供外部的访问端口

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```
kubectl -n kubernetes-dashboard edit svc kubernetes-dashboard-kong-proxy
```

```
targetPort: 8443
selector:
  app.kubernetes.io/component: app
  app.kubernetes.io/instance: kubernetes-dashboard
  app.kubernetes.io/name: kong
sessionAffinity: None
type: NodePort
status:
  loadBalancer: {}
- /tmp/kubectl-edit-2271682642.yaml 45/45 100% CSDN @Dandelin
```

6.在任何地方新建的一个yaml名称为dashboard-admin.yaml

```
vi dashboard-admin.yaml
```

内容为:

```
1 # vim dashboard.admin-user.yaml
2 # 创建ServiceAccount
3 apiVersion: v1
4 kind: ServiceAccount
5 metadata:
6   name: admin-user
7   namespace: kubernetes-dashboard
8 ---
9 #创建clusterRoleBinding
10 apiVersion: rbac.authorization.k8s.io/v1
11 kind: ClusterRoleBinding
12 metadata:
13   name: admin-user
14 roleRef:
15   apiGroup: rbac.authorization.k8s.io
16   kind: ClusterRole
17   name: cluster-admin #k8s中内置的 ClusterRole, 拥有对集群中所有资源的完全控制权
18 subjects:
```

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```
kubectl apply -f dashboard-admin.yaml
```

1.24之后Kubernetes不再为ServiceAccount自动生成Secret, 因此之后需要token使用如下方式创建:

[illegible]


```
[root@master ~]# kubectl -n kubernetes-dashboard get svc
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes-dashboard-kong-manager	NodePort	10.43.93.102	<none>	8002:31887/TCP,8445:31020/TCP	15m
kubernetes-dashboard-api	ClusterIP	10.43.251.93	<none>	8000/TCP	15m
kubernetes-dashboard-auth	ClusterIP	10.43.195.84	<none>	8000/TCP	15m
kubernetes-dashboard-metrics-scraper	ClusterIP	10.43.255.183	<none>	8000/TCP	15m
kubernetes-dashboard-web	ClusterIP	10.43.4.171	<none>	8000/TCP	15m
kubernetes-dashboard-kong-proxy	NodePort	10.43.213.25	<none>	443:30877/TCP	15m

← → ↺ 🏠 🔍  https://192.168.219.142:30877 CSDN @Dandelin



10.

第一次访问需要点高级 选择继续访问，然后复制之前提供的token粘贴上去 即可登录dashboard

 **kubernetes**

default

Q 搜索

+  

工作负载

工作负载 ^N

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

服务

Ingresses ^N

Ingress 类

Services ^N

配置和存储

Config Maps ^N

Persistent Volume Claims ^N

Secrets ^N

存储类

集群

Cluster Role Bindings

Cluster Roles

事件 ^N

命名空间

此处没有可显示的内容

你可以 [部署一个容器化应用](#) 选择其他命名空间，或者 [阅读 Dashboard 说明](#) [了解](#) 更多。

dashboard-web:1.3.0 © 2024 The Kubernetes Authors

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卸载：

因为是用helm安装的 所以用它来卸载

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```
helm list -n kubernetes-dashboard
```

```
helm uninstall <release-name> -n kubernetes-dashboard
```

将 <release-name> 替换为实际的 Helm Release 名称。（命令helm list -n kubernetes-dashboard查看kubernetes-dashboard命名空间下的Helm Release）

以下框住的内容可以直接通过 `kubectl delete -f admin-user.yaml` 来删除（一键删除admin-user.yaml文件定义的所有资源）

删除当前的 ServiceAccount 和 ClusterRoleBinding

```
kubectl get serviceaccount -n kubernetes-dashboard
```

```
kubectl get clusterrolebinding
```

使用以下命令确认资源已被删除。

```
kubectl delete serviceaccount admin-user -n kubernetes-dashboard
```

```
kubectl delete clusterrolebinding admin-user
```

确保 admin-user 不在列表中

1. 检查 Kubernetes Dashboard 资源是否已删除

```
kubectl get all -n kubernetes-dashboard
```

2. 删除 kubernetes-dashboard 命名空间

```
kubectl delete namespace kubernetes-dashboard
```

3. 验证命名空间删除情况

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`kubectl get namespaces`

4. 验证清理结果

`kubectl get all --all-namespaces | grep dashboard`

如果没有输出，说明所有与 Kubernetes Dashboard 相关的资源都已成功删除

5. 将k8s资源从 helm仓库移除

`helm repo remove kubernetes-dashboard`

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