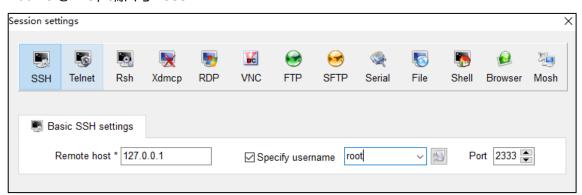


1.1 Kubernetes 架构介绍实验

步骤 1 登陆环境

在 SSH 工具中输入登陆环境信息,主机地址为 127.0.0.1,用户名为 root,密码 Huawei@123,端口号 2333



步骤 2 查看节点状态:

[root@k8s-master /]# kubectl get node

NAME	STATUS	ROLES	AGE	VERSION
k8s-master	Ready	master	9d	v1.14.3
k8s-node1	Ready	<none></none>	9d	v1.14.3
k8s-node2	Ready	<none></none>	9d	v1.14.3

步骤 3 查看 Docker 运行状态

登录 k8s-master 节点和 node 节点,使用如下命令查看 docker 状态:

[root@k8s-node1]# systemctl status docker

如 docker 运行状态正常, 回显如下:

```
Odocker.service - Docker Application Container Engine
Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor
preset: disabled)
Active: active (running) since Sun 2019-04-28 18:00:36 CST; 2 weeks 3
days ago
```

步骤 4 在所有节点查看 kubelet 运行状态

使用如下命令:

[root@k8s-node1]# systemctl status kubelet

```
wubelet.service - kubelet: The Kubernetes Node Agent
Loaded: loaded (/usr/lib/systemd/system/kubelet.service; enabled; vendor
preset: disabled)
```



Drop-In: /usr/lib/systemd/system/kubelet.service.d

└-10-kubeadm.conf

Active: active (running) since Sun 2019-04-28 17:15:03 CST; 2 weeks 3

days ago

步骤 5 在 Master 节点查看封装到 Pod 中的组件的状态。

[root@k8s-master]# kubectl get pods --field-selector spec.nodeName=k8s-master -namespace=kube-system

回显可以看到:

NAME	READY	STATUS	RESTARTS	AGE
coredns-fb8b8dccf-j4kn5	1/1	Running	3	18d
coredns-fb8b8dccf-mx6pw	1/1	Running	3	18d
etcd-k8s-master	1/1	Running	2	18d
kube-apiserver-k8s-master	1/1	Running	3	18d
kube-controller-manager-k8s-master	1/1	Running	2	18d
kube-flannel-ds-amd64-lfslh	1/1	Running	3	18d
kube-proxy-dt69s	1/1	Running	2	18d
kube-scheduler-k8s-master	1/1	Running	2	18d
kubernetes-dashboard-5f798cc594	1/1	Running	3	18d

步骤 6 在 Node 节点查看封装到 Pod 中的系统组件:

[root@k8s-node1]# kubectl get pods --field-selector spec.nodeName=k8s-node2 -namespace=kube-system

回显如下

NAME	READY	STATUS	RESTARTS	AGE
kube-flannel-ds-amd64-7tn6g	1/1	Running	2	18d
kube-proxy-q8xmm	1/1	Running	2	18d

步骤 7 查看现有 namespace

 $[\verb|root@k8s-master|| | kubectl | | get | namespace||$

或者简写命令

[root@k8s-master]kubectl get ns

或查看完整信息

[root@k8s-master]# kubectl get namespace -o wide

NAME	STATUS	AGE
default	Active	9d
kube-node-lease	Active	9d
kube-public	Active	9d
kube-system	Active	9d



步骤 8 创建 namespace

[root@k8s-master /]# kubectl create namespace new-namespace

namespace/new-namespace created

步骤 9 再次查看 namespace 清单

[root@k8s-master]kubectl get namespace

可以看到 namespace 中的可以看到已创建的 namespace

NAME	STATUS	AGE
default	Active	9d
kube-node-lease	Active	9d
kube-public	Active	9d
kube-system	Active	9d
new-namespace	Active	21m

步骤 10 删除刚刚创建的 namespace

[root@k8s-master]kubectl delete namespace new-namespace