## 环境介绍

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| 操作系统 | 服务器 | 软件版本 |
| Centos 7 | 172.16.1.152 | 17.03.1-ce |
| Centos 7 | 172.16.1.153 | 17.03.1-ce |
| Centos 7 | 172.16.1.154 | 17.03.1-ce |

## 三台机器上Docker17.03.1-ce安装

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| --- |
| [root@yw-docker-03] systemctl stop firewalld.service  [root@yw-docker-03] systemctl disable firewalld.service  [root@yw-docker-03] vi /etc/selinux/config（修改为disabled）  [root@yw-docker-03] cd /etc/yum.repos.d/  [root@yw-docker-03] wget https://download.docker.com/linux/centos/docker-ce.repo  [root@yw-docker-03] yum install -y --setopt=obsoletes=0 docker-ce-17.03.1.ce-1.el7.centos docker-ce-selinux-17.03.1.ce-1.el7.centos  [root@yw-docker-03] systemctl enable docker && systemctl restart docker |

## 三台机器环境准备

升级openssh到6.7以上

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| --- |
| [root@yw-docker-03] yum install openssh\* |

安装RKE，下载地址：<https://github.com/rancher/rke/releases>，上传到172.16.1.152

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| --- |
| [root@yw-docker-03] mv rke\_linux-amd64 rke  [root@yw-docker-03]chmod +x rke  [root@yw-docker-03]./rke –version |

由于centos**可能**不允许root搭建集群，所以建立docker\_user用户，设置密码后重启服务器

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| --- |
| [root@yw-docker-03] useradd docker\_user  [root@yw-docker-03] usermod -aG docker docker\_user |

172.16.1.152服务器，docker\_user配置免密登陆

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| --- |
| [docker\_user@yw-docker-03] ssh-keygen  [root@yw-docker-03] ssh-copy-id docker\_user@172.16.1.152  [root@yw-docker-03] ssh-copy-id docker\_user @172.16.1.153  [root@yw-docker-03] ssh-copy-id docker\_user @172.16.1.154 |

rancher-cluster.yml文件

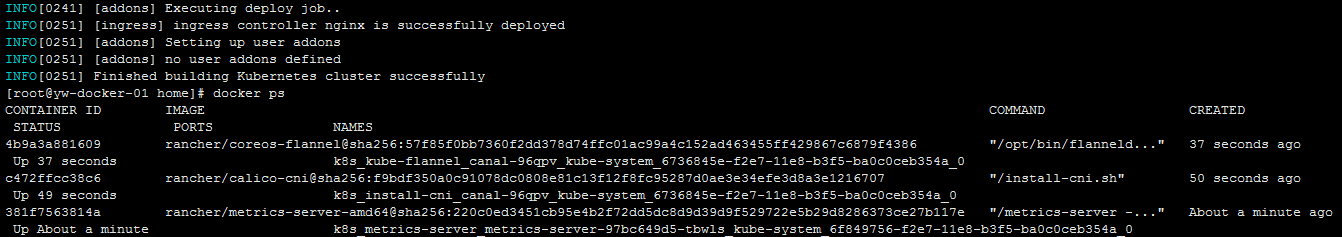
|  |
| --- |
| nodes:  - address: 172.16.1.152  internal\_address: 172.16.1.152  user: docker\_user  role: [controlplane,worker,etcd]  - address: 172.16.1.153  internal\_address: 172.16.1.153  user: docker\_user  ssh\_key\_path: /home/docker\_user/.ssh/id\_rsa  role: [controlplane,worker,etcd]  - address: 172.16.1.154  internal\_address: 172.16.1.154  user: docker\_user  ssh\_key\_path: /home/docker\_user/.ssh/id\_rsa  role: [controlplane,worker,etcd]  services:  etcd:  snapshot: true  creation: 6h  retention: 24h |

## 安装kubernetes(root用户执行，否则可能安装失败)

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| [root@yw-docker-03]chwon docker\_user:docker\_user rancher-cluster.yml  [root@yw-docker-03]./rke up --config ./rancher-cluster.yml |

## 验证

**INFO[0251] Finished building Kubernetes cluster successfully，显示以上信息表示安装成功**



## 安装kubectl

下载地址：https://www.cnrancher.com/docs/rancher/v2.x/cn/installation/download/

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| --- |
| [root@yw-docker-03] mv kubectl\_linux-amd64 kubectl  [root@yw-docker-03] cp kubectl /usr/local/bin/kubectl  [root@yw-docker-03] export KUBECONFIG=$(pwd)/kube\_config\_rancher-cluster.yml  [root@yw-docker-03] kubectl proxy --port=8080 &  [root@yw-docker-01 home]# kubectl get nodes  NAME STATUS ROLES AGE VERSION  172.16.1.152 Ready controlplane,etcd,worker 1h v1.11.3  172.16.1.153 Ready controlplane,etcd,worker 1h v1.11.3  172.16.1.154 Ready controlplane,etcd,worker 1h v1.11.3 |

## 安装helm

下载地址：https://github.com/helm/helm/releases

|  |
| --- |
| [root@yw-docker-03] tar –zxvf helm-v2.11.0-linux-amd64.tar.gz  [root@yw-docker-03] cp helm/usr/local/bin/helm  [root@yw-docker-03]helm help  [root@yw-docker-03]helm init --service-account tiller --tiller-image registry.cn-hangzhou.aliyuncs.com/google\_containers/tiller:v2.11.0 --stable-repo-url https://kubernetes.oss-cn-hangzhou.aliyuncs.com/charts |

## 安装RancherHA

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| --- |
| [root@yw-docker-03] helm repo add rancher-stable https://releases.rancher.com/server-charts/stable  [root@yw-docker-03] helm repo update  [root@yw-docker-03] helm install rancher-stable/rancher --name rancher --namespace cattle-system --set hostname=rancher.bsb.com  [root@yw-docker-03] |

## 验证登陆rancher.bsb.com

