测试服务器

## 1. 测试服务器

环境:

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| --- | --- | --- |
| 名称 | 版本 | 下载地址 |
| Docker | Docker version 1.13.1 | [docker](https://store.docker.com/editions/community/docker-ce-server-centos?tab=description) |
| Rancher | 1.5 | [rancher 1.5](https://github.com/rancher/rancher/tree/v1.5) |
| Docker Compose | docker-compose version 1.8.1, build 878cff1 | [docker-compose](https://github.com/docker/compose/releases/download/1.8.1/docker-compose-Linux-x86_64) |

### 1.1. Docker 安装

1. 配置 yum 源

cat > /etc/yum.repos.d/docker-main.repo <<\_EOF\_  
[docker-main-repo]  
name=Docker main Repository  
baseurl=http://mirrors.aliyun.com/docker-engine/yum/repo/main/centos/7  
enabled=1  
gpgcheck=1  
gpgkey=http://mirrors.aliyun.com/docker-engine/yum/gpg  
\_EOF\_

1. 安装 docker

* yum install -y docker-engine-1.12.1-1.el7.centos

### 1.2. Rancher 安装

#### 1.2.1. registry server

1. 生成自签名证书

* cd ~/  
    
  mkdir registry && cd registry && mkdir certs && cd certs  
    
  openssl req -x509 -days 3650 -subj '/CN=mailiqing.com/' -nodes -newkey rsa:2048 -keyout registry.key -out registry.crt

|  |  |
| --- | --- |
|  | * CN=mailiqing.com 这里是域名 |

1. 启动 registry server

* registry.yml
* version: '2'  
    
  services:  
   registry-v2:  
   image: registry:2.5  
   container\_name: registry-v2  
   ports:  
   - "5000:5000"  
   environment:  
   REGISTRY\_HTTP\_TLS\_CERTIFICATE: /certs/registry.crt  
   REGISTRY\_HTTP\_TLS\_KEY: /certs/registry.key  
   volumes:  
   - /home/wuliu/registry-data:/var/lib/registry  
   - /home/wuliu/registry/certs:/certs
* docker-compose -f registry.yml up

#### 1.2.2. registry client端

registry-cert.sh

#!/bin/bash  
  
DOMAIN=mailiqing.com:5000  
  
mkdir -p /etc/docker/certs.d/$DOMAIN  
  
cat > /etc/docker/certs.d/$DOMAIN/registry.crt <<\_EOF\_ (1)  
-----BEGIN CERTIFICATE-----  
MIIDAzCCAeugAwIBAgIJAMsKmEFPgZmQMA0GCSqGSIb3DQEBCwUAMBgxFjAUBgNV  
BAMMDW1haWxpcWluZy5jb20wHhcNMTcwNTE1MDMxODU0WhcNMjcwNTEzMDMxODU0  
WjAYMRYwFAYDVQQDDA1tYWlsaXFpbmcuY29tMIIBIjANBgkqhkiG9w0BAQEFAAOC  
AQ8AMIIBCgKCAQEAuurO4pKcIDgjQ3JMojee+JCvXj3pHqT5PLm+YO6UCTayOKqK  
Jh9Ykfs6NOo73VZXzLc0EPH+bNgNUbX6X7y5iYV/iBu+Yt9gxrSYr3UF8/LbtLGk  
mExWEe+JLVkJQna2mqXGsEq4UdUkQa/5de1ts5go5Uhzq79QYKdgduneh0wwmBjX  
rX2UYB36lBobMGDLnC6mVwavJprpxWpsr5t2L4nH02vLg44vJDz9grzm3EHQ1cOn  
pYsKRbFGptNmwX+/f7kt+jItOsIG+Om3CoM614Y2rzAGT0zfv/3jiyDLLyXiwvnc  
ABqrD9+BriEJd3nfkdF5gNtGn3CPHuq0EGOWkwIDAQABo1AwTjAdBgNVHQ4EFgQU  
jr05uLk9epuxBdo7x5gRjT/zfGwwHwYDVR0jBBgwFoAUjr05uLk9epuxBdo7x5gR  
jT/zfGwwDAYDVR0TBAUwAwEB/zANBgkqhkiG9w0BAQsFAAOCAQEArLB0Nbk5153a  
MqWHoLAVnFmVpkKDU4vOr+jw71xKNPlv5/cwppTWO1AagbZoQdyaprspVOvca0E1  
zrNigjuGkVSkb03rE61Kz6v2U0kJ/DTKhDQmvUHf5PqWpfyeZlnu4a+EyHeTPwpI  
U45htOenShJ7QEEfAZ0SxHq0gpu38CeSUIxY2xYXxSDjMSFEmGlekbNKpBO64V/E  
pqBUxAMaTMRczMh9JohN2yFpMcbbUCr87DAIExHJZIeyrYBorBf+sas3DDgbWalv  
CbJ3Q+lRb0nB7tYZerazeshBh3rVmE9eZq5idEVvdmXAIqdV3uZV0mhx0Rw+j2e3  
gHprA9NIog==  
-----END CERTIFICATE-----  
\_EOF\_  
  
echo 196.168.1.33 mailiqing.com >> /etc/hosts

|  |  |
| --- | --- |
| **1** | 内容对应 registry server 的 registry.crt |

#### 1.2.3. 下载 **Rancher** 所需镜像并 **Push** 到 **Docker Registry**

1. 脚本

* push.sh
* #!/bin/bash  
    
  for var in $@  
  do  
   echo "$var"  
   docker pull $var  
   docker tag $var mailiqing.com:5000/$var  
   docker push mailiqing.com:5000/$var  
   docker rmi mailiqing.com:5000/$var  
  done

1. 运行

* sh push.sh rancher/net:v0.11.2 rancher/net:holder rancher/scheduler:v0.7.5 rancher/healthcheck:v0.2.3 rancher/metadata:v0.9.1 rancher/dns:v0.14.2 rancher/network-manager:v0.6.6 rancher/agent:v1.2.2 rancher/server:v1.5.5

### 1.3. Rancher 启动

1. 启动 **rancher/server**

* docker run -d --name rancher-server --restart=unless-stopped -p 8080:8080 rancher/server:v1.5.5

1. **rancher** 管理界面地址

* [Rancher UI](http://196.168.1.33:8080)

1. 添加主机

* 
* docker run --rm --privileged -v /var/run/docker.sock:/var/run/docker.sock -v /var/lib/rancher:/var/lib/rancher rancher/agent:v1.2.2 http://196.168.1.33:8080/v1/scripts/99136B97757188B5A670:1483142400000:TWiSTaoo3CPJZLWtS6NxPGyUU

### 1.4. 应用

