Contents

1. 测试服务器

环境:

名称	版本	下载地址
Docker	Docker version 1.13.1	docker
Rancher	1.5	rancher 1.5
Docker Compose	docker-compose version 1.8.1, build 878cff1	docker-compose

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

2. 启动 `registry server`

registry.yml

```yaml
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

```bash
#!/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

```bash
#!/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
```

2. 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
```

2. **rancher** 管理界面地址

   Rancher UI

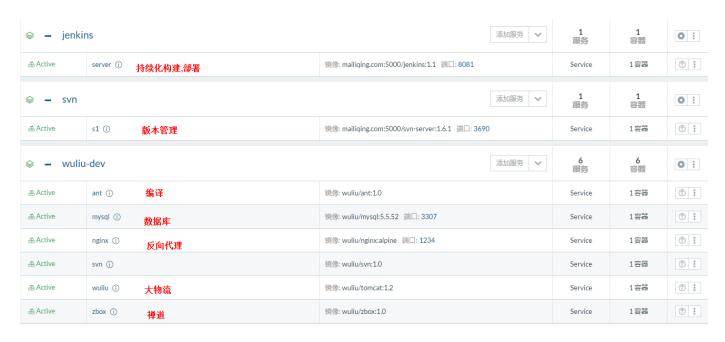3. 添加主机

```
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

				1 服务	1 容器	
⬡ − jenkins			添加服务 ∨			⊙ ⋮
⚑ Active	server ⓘ	**持续化构建,部署**	镜像: mailiqing.com:5000/jenkins:1.1 端口: 8081	Service	1容器	⊕ ⋮
⬡ − svn			添加服务 ∨	1 服务	1 容器	⊙ ⋮
⚑ Active	s1 ⓘ	**版本管理**	镜像: mailiqing.com:5000/svn-server:1.6.1 端口: 3690	Service	1容器	⊕ ⋮
⬡ − wuliu-dev			添加服务 ∨	6 服务	6 容器	⊙ ⋮
⚑ Active	ant ⓘ	**编译**	镜像: wuliu/ant:1.0	Service	1容器	⊕ ⋮
⚑ Active	mysql ⓘ	**数据库**	镜像: wuliu/mysql:5.5.52 端口: 3307	Service	1容器	⊕ ⋮
⚑ Active	nginx ⓘ	**反向代理**	镜像: wuliu/nginx:alpine 端口: 1234	Service	1容器	⊕ ⋮
⚑ Active	svn ⓘ		镜像: wuliu/svn:1.0	Service	1容器	⊕ ⋮
⚑ Active	wuliu ⓘ	**大物流**	镜像: wuliu/tomcat:1.2	Service	1容器	⊕ ⋮
⚑ Active	zbox ⓘ	**禅道**	镜像: wuliu/zbox:1.0	Service	1容器	⊕ ⋮

1.5. 参考

1. 测试服务器 dockerfiles
2. docker store
3. 阿里云 镜像