

jenkis-docker环境构建镜像上传仓库

主要思路：通过SSH将构建成功的Jar包和Dockerfile文件传送到指定的宿主机上，然后通过脚本执行构建镜像和上传镜像到私服仓库

- 目标机器已安装docker环境和登陆docker私服仓库(如harbor)
- Jenkins中配置全局ssh配置，使用账号密码登陆。

注意：非root用户，创建普通用户时需要指定该用户的附属组为docker，安装docker后默认会创建一个docker用户组，用于执行docker操作

Jenkins-->系统管理-->系统配置-->Publish over SSH

SSH Server configuration form:

- Name: app059
- Hostname: [Redacted]
- Username: xiaogj
- Remote Directory: /
- ☒ Use password authentication, or use a different key
- Passphrase / Password: [Redacted]
- Path to key: [Empty]
- Key: [Empty]
- Jump host: [Empty]
- Port: 22
- Timeout (ms): 300000
- Disable exec: ☐
- Proxy type: [Dropdown]
- Proxy host: [Empty]
- Proxy port: 0
- Proxy user: [Empty]
- Proxy password: [Empty]

Buttons: 新增, Test Configuration, 删除

创建用户命令： `useradd -g 主组(groupname) -G 附属组(docker) -d 工作目录(/home/xx) username`

或者使用已有用户添加附属组： `usermod -G 附属组(docker)`

- 目标主机上创建工作目录和新增构建脚本

工作目录如： /home/xiaogj/mall/mall-pms

```
[xiaogj@app059 mall-pms]$ ll
total 4
-rwxr-xr-- 1 xiaogj xiaogj 1512 May 27 21:41 docker-build.sh
[xiaogj@app059 mall-pms]$ pwd
/home/xiaogj/mall/mall-pms
[xiaogj@app059 mall-pms]$
```

脚本内容：

```
#!/bin/bash
```

####docker 构建脚本

##背景: jenkins部署在容器中, 无法利用docker执行操作, 通过ssh将jar包和当前路径下的dockerfile推送到指定服务器目录上, 使用脚本进行构建

#1. 本地已安装docker, docker push的前提需要当前服务器已经登陆到容器私服如harbor (docker login)

#2. 同级目录下必须存在Dockerfile文件和需要打包的springboot服务jar包

#参数说明 \$1服务jar名称,\$2镜像版本号

##执行示例: ./docker-build.sh mall-pms latest

```
service_name=$1
```

```
#镜像私服仓库/项目, 使用harbor作为私服仓库
```

```
registry_name=xdevp.xiaogj.com:8088/mall
```

```
image_tag=$2
```

```
jar_file=$service_name.jar
```

```
image_info=$registry_name/$service_name:$image_tag
```

```
#echo $service_name
```

```
#echo $jar_file
```

```
#echo $image_info
```

```
echo "开始执行镜像构建..."
```

```
#执行docker 构建镜像
```

```
build_result=$(docker build -t $image_info --build-arg JAR_FILE=$jar_file  
.)
```

```
#判断是否构建成功
```

```
#echo $build_result
```

```
if [[ $build_result =~ "Successfully" ]]; then
```

```
    echo "构建成功, 镜像信息如下: "
```

```
    echo `docker images |grep $service_name`
```

```
    echo "开始执行镜像推送到私服仓库..."
```

```
    push_result=$(docker push $image_info)
```

```
    if [[ $push_result =~ "latest: digest" ]]; then
```

```
        echo "推送镜像成功: "$image_info
```

```
        exit 0
```

```
    else
```

```
        echo "推送镜像失败, 失败信息如下: "
```

```
        echo $push_result
```

```
        exit 1
```

```
    fi
```

```
else
```

```
    echo "构建失败, 失败信息如下: "
```

```
echo $build_result
exit 1
fi
```

- 当前目标机器登陆到私服仓库，如 <http://xdevp.xiaogj.com:8088/>

`docker login http://xdevp.xiaogj.com:8088`

需要输入账号密码

```
[xiaogj@app059 mall-pms]$ docker login http://xdevp.xiaogj.com:8088
Authenticating with existing credentials...
WARNING! Your password will be stored unencrypted in /home/xiaogj/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
[xiaogj@app059 mall-pms]$
```

- Jenkins配置

构建后操作

Send build artifacts over SSH

SSH Publishers

SSH Server

Name: app059 选择全局配置的服务，即工作目录

Transfers

Transfer Set

Source files: Dockerfile 传送Dockerfile文件到目标服务器

Remove prefix:

Remote directory: /home/xiaogj/mall/mall-pms

Exec command:

All of the transfer fields (except for Exec timeout) support substitution of [Jenkins environment variables](#)

Add Transfer Set

SSH Server

Name: app059

Transfers

Transfer Set

Source files: target/*.jar 传送构建完成的服务jar文件到目标服务器

Remove prefix: target

Remote directory: /home/xiaogj/mall/mall-pms

Exec command: cd /home/xiaogj/mall/mall-pms
sh docker-build.sh mall-pms latest 到服务目录，执行docker-build脚本构建上传镜像

All of the transfer fields (except for Exec timeout) support substitution of [Jenkins environment variables](#)

配置完成执行构建信息

```
[INFO]
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /var/jenkins_home/workspace/mall-pms-build/pom.xml to com.xiaogj/mall-pms/0.0.1-SNAPSHOT/mall-pms-0.0.1-SNAPSHOT.pom
[JENKINS] Archiving /var/jenkins_home/workspace/mall-pms-build/target/mall-pms.jar to com.xiaogj/mall-pms/0.0.1-SNAPSHOT/mall-pms-0.0.1-SNAPSHOT.jar
channel stopped
SSH: Connecting from host [0298a67c5ba4]
SSH: Connecting with configuration [app059] ...
SSH: Disconnecting configuration [app059] ...
SSH: Transferred 1 file(s)
SSH: Connecting from host [0298a67c5ba4]
SSH: Connecting with configuration [app059] ...
SSH: EXEC: STDOUT/STDERR from command [cd /home/xiaogj/mall/mall-pms
sh docker-build.sh mall-pms latest] ...
开始执行镜像构建...
构建成功, 镜像信息如下:
xdevp.xiaogj.com:8088/mall/mall-pms latest ba8f77a03c34 Less than a second ago 841MB xdevp.xiaogj.com:8088/mall/mall-pms <none> c158a0fbeb9f 30 minutes ago 841MB
开始执行镜像推送到私服仓库...
SSH: Disconnecting configuration [app059] ...
ERROR: Exception when publishing, exception message [Exec timed out or was interrupted after 30,001 ms]
Build step 'Send build artifacts over SSH' changed build result to UNSTABLE
Finished: UNSTABLE
```

push 镜像很慢会出现超时, 可以适当调整超时时间

SSH Server

Name app059

高级...

Transfers

Transfer Set

Source files target/*.jar

Remove prefix target

Remote directory /home/xiaogj/mall/mall-pms

Exec command cd /home/xiaogj/mall/mall-pms
sh docker-build.sh mall-pms latest

All of the transfer fields (except for Exec timeout) support substitution of [Jenkins environment variables](#)

Exclude files

Pattern separator [.]+

No default excludes

Make empty dirs

Flatten files

Clean remote

Remote directory

is a date format

Exec timeout (ms) 30000

Exec in pty

Exec using Agent Forwarding

查看私服仓库镜像信息

项目 < 镜像仓库

mall/mall-pms

描述信息 镜像

扫描

复制摘要

添加标签

TAG 网页

删除

Q | C

<input type="checkbox"/>	Tag	大小	Pull 命令	漏洞	作者	创建时间	Docker 版本	标签	推送时间	拉取时间
<input type="checkbox"/>	latest	405.98MB		未扫描		5/27/20, 10:12 PM	19.03.8		5/27/20, 10:14 PM	

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