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



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

```
####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
```

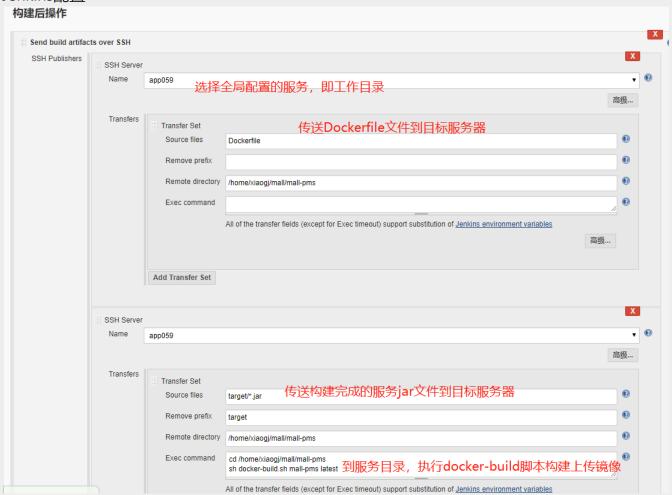
• 当前目标机器登陆到私服仓库,如 http://xdevp.xiaogj.com:8088/

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]\$

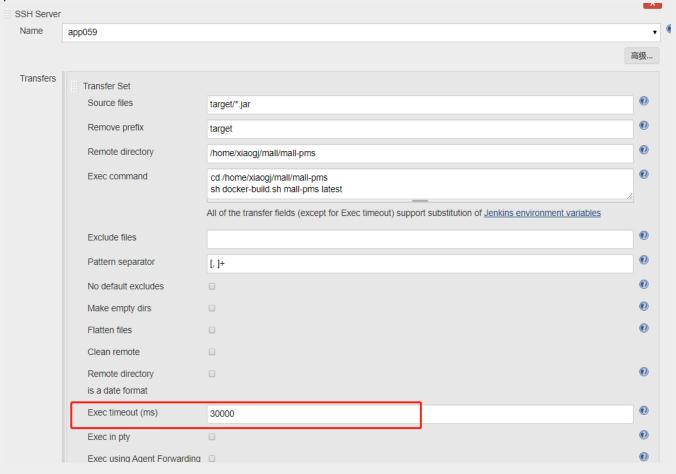
Jenkins配置



• 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] \dots SSH: Disconnecting configuration [app059] ... SSH: Transferred 1 file(s) SSH: Connecting from host [0298a67c5ba4] SSH: Connecting with configuration [app059] \dots SSH: EXEC: STDOUT/STDERR from command [cd /home/xiaogj/mall/mall-pms sh docker-build.sh mall-pms latest] ... 开始执行错像构建... 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] 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



• 查看私服仓库镜像信息

