jenkins

```
version: '3'
services:
   docker_jenkins:
    restart: always
   image: jenkins/jenkins:lts
   container_name: docker_jenkins
   ports:
        - '8080:8080'
        - '50000:50000'
   volumes:
        - ./data/:/var/jenkins_home
        - /var/run/docker.sock:/var/run/docker.sock
        - /usr/bin/docker:/usr/bin/docker
```

创建 data 目录并设置权限

mkdir ./data sudo chown -R 1000 ./data //把当前目录的拥有者赋值给uid 1000 若已启动则需要重建下服务

构建Jenkins服务

docker-compose up -d

...访问 http://ip:8080 进行初始化...

jenkins在docker中安装后查看登录令牌

使用命令 docker logs 容器名称/容器ID 查看访问日志,即可查看到登录令牌

若未设置账户,如何查看admin的密码

一不小心,未创建新的账户,可通过查看挂载目录下的 /secrets/initialAdminPassword 中的 Key 作为密码登录 账户:admin 密码:cat ./data/secrets/initialAdminPassword

在页面输入密码,点击Continue,进入插件安装页面。我们点击左边的Install suggested plugins,安装推荐插件就好。



Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.60.3

Getting Started

Getting Started

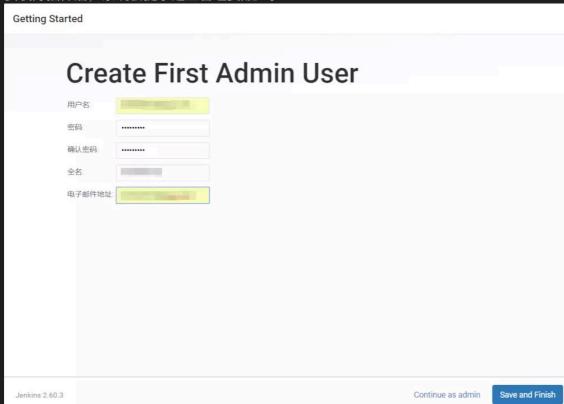


~	Folders	OWASP Markup Formatter	Build Timeout	Credentials Binding	Folders ** bouncycastle API ** Structs
2	Timestamper	Workspace Cleanup	Ø Ant		** Structs
S	Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View	
2	Git	Subversion	SSH Slaves	Matrix Authorization Strategy	
2	PAM Authentication	C LDAP	C Email Extension		

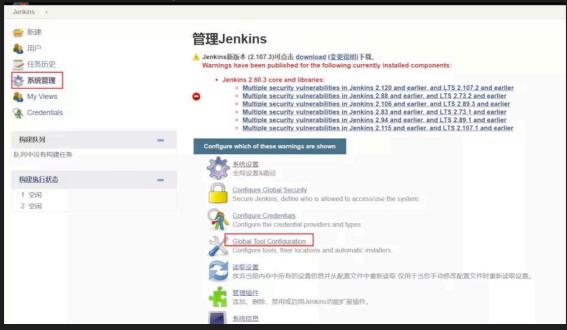
** - required dependency

Jenkins 2.60.3

安装好插件后,系统会提示建立管理员账户。



创建管理员账户后进入系统,我们先来配置常用工具。



进入工具配置页,首先看到的就是idk配置,这里我们先使用自动安装的java8。

JDK 別名 java ■ 自动安装 ■ 从 java.sun.com 版本 Java SE Devel ■ 我同意 Jav ■ Installing J

注意,自动安装jdk需要你填入oracle的账号密码,这样Jenkins才能自动帮你到oracle安装。如果没有oracle账号,建议先去Oracle官网注册一下。 配置好jdk自动安装后,我们继续配置git。git的字段安装更简单,起个别名,勾上自动安装。

ons		git		
	Path to Git executable	git	0	
	☑ 自动安装		0	2
	新唱安装 ▼			
			Delete Git	
	Add Git 🕶			

配置好git我们继续配置Gradle,一样简单,起个别名,勾上自动安装,选择Gradle的版本。

Gradie name gradie ● 自动安装 Install from Gradie.org 版本 Gradie 4.7 新曜安装 ▼

生成SSHKey

容器从github上面下载代码的时候需要用到。因为咱们这个Jenkins是基于docker的,不是直接安装在服务器上,这里有很大的不同。

要生成容器的SSHKey,首先要先进入容器

```
docker exec -it jenkins /bin/bash
# 进入容器后生成sshkey
ssh-keygen -t rsa -C "123@qq.com"
```

```
[root@ip-10-0-0-154 ~]# docker exec -it jenkins /bin/bash
jenkins@873812bdfc5b:/$ ssh-keygen -t rsa -C "1
Generating public/private rsa key pair.
Enter file in which to save the key (/var/jenkins home/.ssh/id rsa):
Created directory '/var/jenkins home/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /var/jenkins_home/.ssh/id_rsa.
Your public key has been saved in /var/jenkins home/.ssh/id rsa.pub.
The key fingerprint is:
SHA256:pV+rQxBziecLN0v4nbZ10S3twxJvw5/E8z+hN9zg4KA @qq.com
The key's randomart image is:
+---[RSA 2048]----+
        . 0.
        +0.
               0.
        oSo ...o +
       . ..+...B=
        . +.+0++%+
        E = 0.0 = 0
         .oo ..B|
+----[SHA256]----+
jenkins@873812bdfc5b:/$
```

在容器内输入exit离开容器,使用如下命令获取公钥

tail /var/lib/docker/volumes/jenkins/_data/.ssh/id_rsa.pub



jenkins构建时支持git选择分支

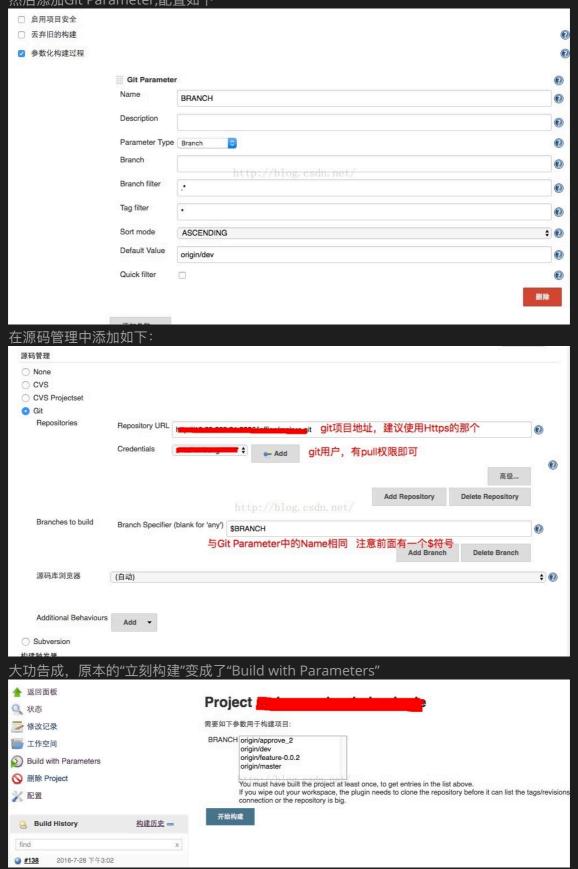
安装Git Parameter插件

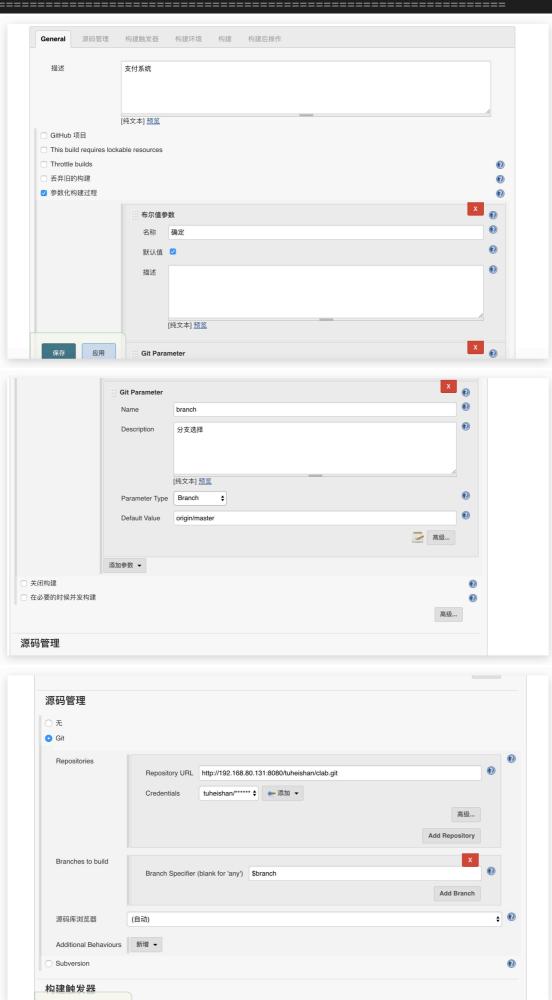


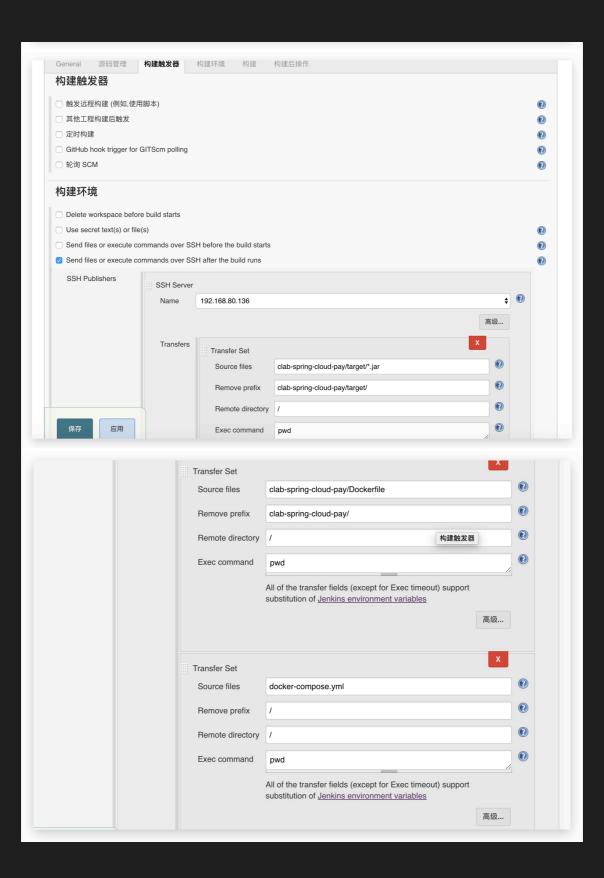
然后点击选插件,在右上角输入Git Parameter,找到Git Parameter后点击左下方的的直接 安装

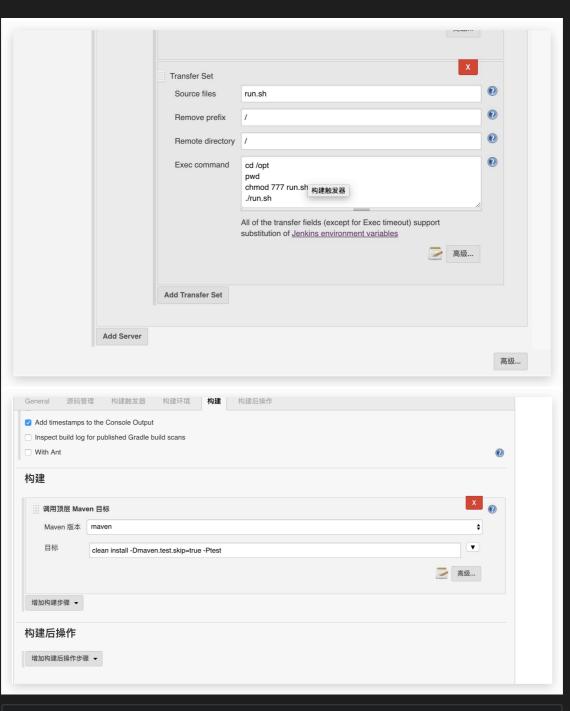


插件安装成功后,在项目配置中后看到多了一个"参数化构建过程" 勾选"参数化构建过程", 然后添加Git Parameter,配置如下









```
#!/bin/bash
echo '==开始docker'
pwd
echo '==删除旧镜像'
docker rmi -f 192.168.80.134:5000/pay:1.0.0
echo '==打包镜像'
sudo docker build --rm -t pay:1.0.0 .
echo '==tag==========='
docker tag pay:1.0.0 192.168.80.134:5000/pay:1.0.0
echo '==推送到镜像仓库==========='
docker push 192.168.80.134:5000/pay:1.0.0
echo '==启动镜像=========='
docker-compose up -d
```

```
version: '2'
services:
  hive-auth2-server:
    image: pay:1.0.0
    restart: always
    ports:
    - 9090:9090
    volumes:
    - /data/logs/pay/:/logs/pay/
```

```
FROM java:8-jre

EXPOSE 9090

VOLUME /tmp

ADD target/clab-spring-cloud-pay-1.0.0.RELEASE.jar /app.jar

RUN bash -c 'touch /app.jar'

ENV JAVA_OPTS="-Xmx512m -Xms512m"

ENV CONFIG_PROFILE=dev

ENTRYPOINT ["sh", "-c", "java $JAVA_OPTS \
-Dfile.encoding=UTF8 -Duser.timezone=GMT+08 \
-Djava.security.egd=file:/dev/./urandom \
-jar /app.jar \
--spring.profiles.active=$CONFIG_PROFILE"]
```

#####思路

jenkins是docker安装的,所以内部命令较少,可以手动进入docker安装所需命令,这样,就可以在jenkins中执行大部分shell脚本,从而打包后,可以在jenkins配置执行脚本,将制作镜像和上传镜像仓库步骤放到jenkins中,ssh远程服务器只需要拉取镜像,运行就行。