Jenkins+maven+git部署环境

- 1. 环境准备.
- 1.1需要在liunx环境上安装,部署相应的liunx环境 (jdk,防火墙,等等),自己百度解决哈.
- 1.2 软件准备工作

这里是我用到的相关软件

maven tomcat 和 jenkins的war包及jenkins的扩展插件

附上jenkins的下载插件的地址(有些下载不了只能手动下载后上传了)

http://mirror.xmission.com/jenkins/plugins/

下面我将相关软件上传到我的liunx机器上了.

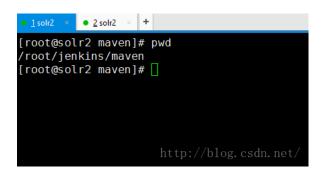
```
[root@solr2 jenkins]# ll
total 80924
-rwxrwxrwx. 1 root root 8850470 Aug 24 2015 apache-tomcat-7.0.63.tar.gz
-rwxrwxrwx. 1 root root 68479320 May 25 06:31 jenkins.tar
-rwxrwxrwx. 1 root root 5529765 May 25 08:24 maven.tar.gz
[root@solr2 jenkins]# pwd
/root/jenkins
[root@solr2 jenkins]# []

http://blog.csdn.net/
```

- 2. 搭建 相关服务
- 2.1 搭建maven环境

解压 文件

tar -zxvf maven.tar.gz 进入文件内部 查看文件路径



编辑maven的环境变量

vim /etc/profile

到文件最底部加入maven环境变量的如下内容:

2.2 搭建jenkins的相关服务

解压tomcat 修改一个不会被占用的端口,设置一下tomcat的url编码格式为UTF-8

将jenkins的包解压,移动到tomcat的webapps中

```
[root@solr2 webapps]# ll
:otal 4
Irwxrwxrwx. 10 root root 4096 May 25 03:16 jenkins
[root@solr2 webapps]# pwd
'root/jenkins/tomcat-9800/webapps
[root@solr2 webapps]# []
http://blog.csdn.net/
```

在 profile中配置 jenkins home

```
unset i
unset -f pathmunge
JAVA_HOME=/usr/local/java/jdk1.8.0_60
export PATH=$JAVA_HOME/bin:$PATH

#maven
export MAVEN_HOME=/root/jenkins/maven
export PATH=$MAVEN_HOME/bin:$PATH

#jenkins
export JENKINS_HOME=/root/jenkins/tomcat-9800/webapps/jenkins.net/
```

重新加载一下配置文件

source /etc/profile

启动tomcat 查看日志输出文件 catalina.out, 复制下来一个密码数字

```
[root@solr2 tomcat-9800]# ll
total 116
drwxr-xr-x. 2 root root
                             4096 May 29 07:54 bin
drwxr-xr-x. 3 root root
                             4096 May 29 08:07 conf
drwxr-xr-x. 2 root root
                             4096 May 29 07:54 lib
-rw-r--r-. 1 root root 56846 Jun 30
drwxr-xr-x. 2 root root 4096 May 29
                                            2015 LICENSE
                             4096 May 29 08:07 logs
-rw-r--r--. 1 root root
                             1239 Jun 30
                                            2015 NOTICE
-rw-r--r-. 1 root root
                             8965 Jun 30
                                             2015 RELEASE-NOTES
                                            2015 RUNNING.txt
-rw-r--r--. 1 root root 16204 Jun 30
drwxr-xr-x. 3 root root 4096 May 29 08:08 temp
drwxr-xr-x. 3 root root 4096 May 29 08:01 webapps
drwxr-xr-x. 3 root root 4096 May 29 08:07 work
 [root@solr2 tomcat-9800]# cat logs/catalina.out 🗌
Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:
727ff0a70781484fb4cedd2e6b73ca24
```

This may also be found at: /root/jenkins/tomcat-9800/webapps/jenkins/secrets/initialA<mark>d</mark>minPassword

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

/root/jenkins/tomcat-9800/webapps/jenkins/secrets/initialAdminPassword

Please copy the password from either location and paste it below.

Administrator password

•••••

刚刚复制下来的粘贴进去 点击继续

http://blog.d



Getting Started

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.

点击这个安装默认的插件

http://blog.csdn.net/

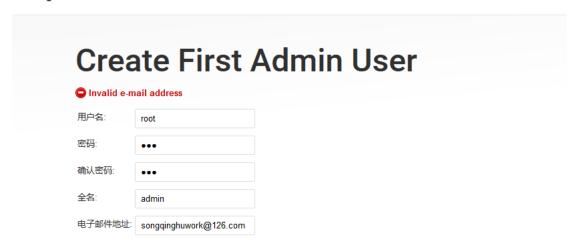
Getting Started Getting Started ✓ Folders Plugin build timeout plugin Credentials Binding Folders Plugin OWASP Markup Formatter Plugin ** JUnit Plugin Plugin Workspace Cleanup Ant Plugin Gradle plugin Timestamper Plugin GitHub Organization O Pipeline: Stage View Pipeline Git plugin Folder Plugin Plugin PAM Authentication Matrix Authorization Subversion Plug-in SSH Slaves plugin Strategy Plugin plugin LDAP Plugin Mailer Plugin Email Extension Plugin

最后进入jenkins, 界面如下, jenkins初步安装成功了:

可能会有很多没有安装成功的插件, 不必担心, 需要的我们再手动安装就行了

还有一个配置登录的帐号密码的界面, 配置一下就行了, 接下来是这个:

Getting Started



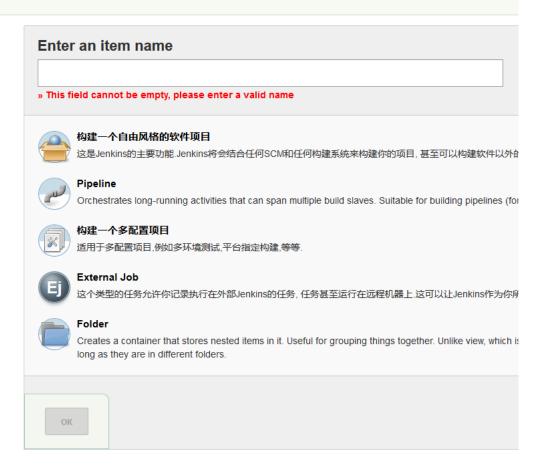


初步成功了!

- 3. 配置 自动化部署
- 3.1插件的安装

我们配置的是 git + maven 方式的 自动化部署 所以git和maven的相关插件是必须的 还有一个ssh用于机器间的文件传送

我新建一个job 人品不好,没有maven工程的项目,我们需要安装一下maven 的插件



下面我们进入插件安装的页面:



管理Jenkins



系统设置

全局设置&路径



Configure Global Security

Secure Jenkins; define who is allowed to access/use the system.



Configure Credentials

Configure the credential providers and types



Global Tool Configuration

Configure tools, their locations and automatic installers.



读取设置

放弃当前内存中所有的设置信息并从配置文件中重新读取 仅用于当您手动修改配置文件



添加、删除、禁用或启用Jenkins功能扩展插件。



系统信息

显示系统环境信息以帮助解决问题。



System Log

系统日志从java.util.logging捕获Jenkins相关的日志信息。



检查您的资源利用情况,看看是否需要更多的计算机来帮助您构建。



Jenkins CLI

从您命令行或脚本访问或管理您的Jenkins。



脚本命令行

执行用于管理或故障探测或诊断的任意脚本命令。



管理节点 添加、删除、控制和监视系统运行任务的节点。



About Jenkins

我们要安装的插件有:

GIT plugin (可能已经默认安装了) Publish Over SSH (远程Shell) Maven Integration plugin

(这一部比较重要)

git我这是安装成功了的. 下载maven的安装时失败了, 我们手动安装

GilHub Branch Source Plugin GilHub Branch Source Plugin (大敗 - 详细 GilHub Organization Folder Plugin Plpeline: Stage View Plugin Git plugin App B API Plugin Sak Subversion Plug-in Stage Stage Stage View Plugin 完成 Subversion Plug-in Stage Stage Stage View Plugin 完成 Subversion Plug-in Stage Stage Stage View Plugin 完成 Matrix Authorization Strategy Plugin PAM Authentication plugin PAM Authentication plugin PAM Authentication plugin 完成 Bail Extension Plug-in 完成 Subversion Plug-in Aven Integration plugin 中元成 Maven Integration plugin (中元成 Hudson. wril. 10Exception2: Failed to download from http://updates. jenkins-ci.org/downloss http://ftp.tsukuba.wide.ad.jp/software/jenkins/plugins/maven-plugin/2. 13/maven-plugin.l at hudson. model. UpdateCenter*SubvaladjateCenter.java:1611/1 at hudson. model. UpdateCenter*SubvaladjateCenter.java:1615/1 at hudson. model. UpdateCenter*SubvaladjateCenter.java:1615/1 at java.util.concurrent.Executors*RumableAdapter.call (Executors.iava:1830) at hudson. model. UpdateCenter.Executors*RumableAdapter.call (Executors.iava:151) at java.util.concurrent.Executors*RumableAdapter.call (Executors.iava:151) at java.util.concurrent.Executors*RumableA			
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	L	Publish Over SSH	△ 完成

3.2 基本配置的部署

插件已经基本准备好了,下面我们还要在做一些基础的配置

要配置的有 jdk maven 和git 其中git需要在机器上安装





系统下Ant 安装列表

Maven		
Maven 安装	Maven	
	Name	maven
	MAVEN HOME	
	MAVEN_HOME	/root/jenkins/maven
	□ 自动安装	
	新增 Maven	
	系统下Maven 安装列表	

我们再机器上执行命令安装git:

yum install git

安装完了 我的git在

/usr/bin/git

```
(3/3): perl-Git-1.7.1-4.el6_7.1.noarch.rpm

Total
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
    Installing: 1:perl-Error-0.17015-4.el6.noarch
    Installing: git-1.7.1-4.el6_7.1.x86_64
    Installing: perl-Git-1.7.1-4.el6_7.1.noarch
    Verifying: perl-Git-1.7.1-4.el6_7.1.noarch
    Verifying: 1:perl-Error-0.17015-4.el6.noarch
    Verifying: git-1.7.1-4.el6_7.1.x86_64

Installed:
    git.x86_64 0:1.7.1-4.el6_7.1

Dependency Installed:
    perl-Error.noarch 1:0.17015-4.el6

Complete!
[root@solr2 maven]# whereis git
git: /usr/bin/git /usr/share/man/man1/git.1.gz
[root@solr2 maven]# []
```

将git配置上去:





公共配置:

Jenkins 与 应 用 服 务 器 关 于 ssh 的 连 接 :

(https://blog.csdn.net/fengzhilin6773/article/details/78246777)

Passphrase:密码(key的密码,如果你设置了)

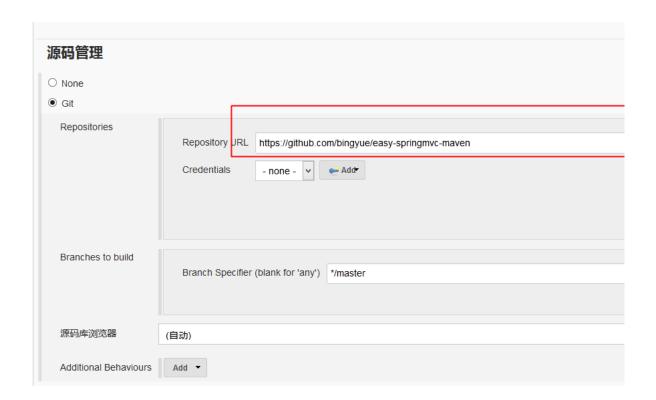
Path to key: key文件(私钥)的路径

Key:将私钥复制到这个框中 Disable exec:禁止运行命令

□ 通过发送测试邮件测试配置

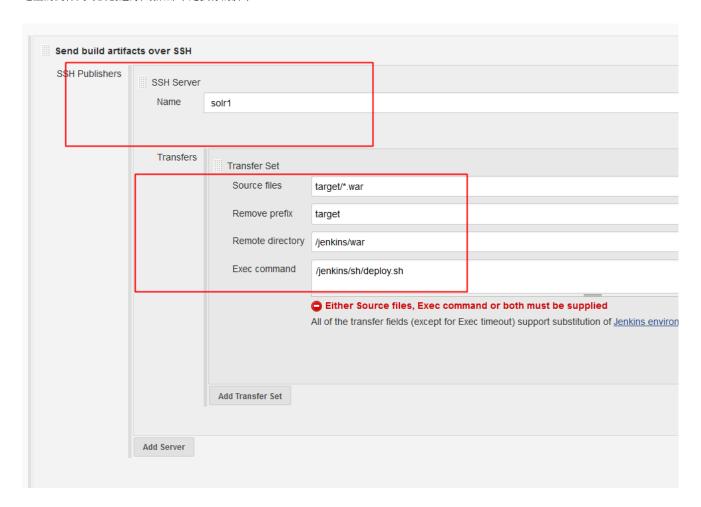
Publish over SSH

Jenkins SSH Key		
Passphrase		
Path to key		
Key		
Disable exec		
SSH Servers	SSH Server	
	Name	solr1
	Un of more	
	Hostname	192.168.31.60
	Username	root
	Remote Directory	1



110 01000	
Add pre-build step 🔻	
Build	
Root POM	pom.xml
Goals and optons	clean package -Dmaven.test.skip=true
Post Steps	
	○ Run only if build succeeds ○ Run only if build succeeds or is unstable ● Run regardless of build re
	Should the post-build steps run only for successful builds, etc.
Add post-build step	

这里的文件夹可要创建好,最后那个是执行的脚本



这是我简单写的一个脚本, 你需要改成相应的操作就行了. 关闭tomcat, 备份, 清理, 自动解压, 启动tomcat 我这里只是演示能将war包传递过来, 并且移动重命名了.

sheel脚本:

```
#!/bin/bash
  WAR_PATH="/home/simm/script/sit_hive_api"
  TOMCAT_PATH="/home/simm/tomcat_sit_hive_api/"
  TOMCATTHREAD=`ps aux | grep 'tomcat_sit_hive_api' | grep -v grep`
  if test -z "$TOMCATTHREAD"
  then
    echo "TOMCAT NOT START"
  else
      THREADLIST= ($ { TOM
     PID=${THREADLIST[1]}
kill -9 $PID
      sleep 2s
  fi
    echo "TOMCAT START"
              CAT_PATH}/webapps
     rm -f ROOT.war
     rm -rf ROOT
    mv ${WAR_PATH}/hive-api.war ROOT.war
cd ${TOMCAT_PATH}/bin
     nohup sh startup.sh
     sleep 5s
看执行结果:
 [JENKINS] Recording test results
 [INFO]
 [INFO] --- maven-war-plugin:2.6:war (default-war) @ hive-api ---
 [INFO] Packaging webapp
 [INFO] Assembling webapp [hive-api] in [/root/.jenkins/jobs/sit-hive-api/workspace/WebContent]
 [INFO] Processing war project
 [INFO] Webapp assembled in [2476 msecs]
 [INFO] Building war: /root/.jenkins/jobs/sit-hive-api/workspace/target/hive-api.war
 [INFO] --
 [INFO] BUILD SUCCESS
 [INFO] ------
 [INFO] Total time: 31.276 s
 [INFO] Finished at: 2018-06-21T13:17:24+08:00
 [INFO] Final Memory: 40M/383M
 [INFO] ----
 [JENKINS] Archiving /root/.jenkins/jobs/sit-hive-api/workspace/pom.xml to com.simm/hive-api/server/hive-api-server.pom
 [JENKINS] Archiving /root/.jenkins/jobs/sit-hive-api/workspace/target/hive-api.war to com.simm/hive-api/server/hive-api-
 server.war
 channel stopped
 SSH: Connecting from host [iZwz999sw02ojy2dlg0v58Z]
 SSH: Connecting with configuration [sit-hive] ...
 SSH: EXEC: STDOUT/STDERR from command [/home/simm/script/sit_hive_api/auto_deploy.sh] ...
 TOMCAT START
 Tomcat started.
 SSH: EXEC: completed after 7,605 ms
 SSH: Disconnecting configuration [sit-hive] ...
 SSH: Transferred 1 file(s)
 Finished: SUCCESS
```

好, 到现在自动化部署就完成了. 祝你成功!