

第2章 Jenkins Server的安装部署方式

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1.1 安装依赖

Jenkins是基于Java开发的一种持续集成工具，可以在安装Java Runtime Environment的任何机器独立运行。部署前需要安装Java开发环境。要求是JDK8+，目前已经支持JDK11。关于JDK的安装可以通过yum或者源码包方式。

rpm方式

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```
rpm -ivh jdk-xxxxxx.rpm
yum -y install java-1.8.0-openjdk java-1.8.0-openjdk-devel
```

源码包方式

```
tar xzf jdk-xxxx.tar.gz -C /usr/local
vim /etc/profile
export JAVA_HOME=/usr/local/jdkxxx
export PATH=$PATH:$JAVA_HOME/bin
source /etc/profile
```

1.2 安装部署

1.2.1 使用Tomcat部署

如果使用war包部署建议采用tomcat，当然Jenkins的war包可以直接通过 `java -jar jenkins.war` 启动。我们可以部署一个tomcat服务然后将jenkins.war包放到tomcat的webapps目录下。最后通过浏览器 `http://tomcatserver/jenkins` 访问。

```
wget http://mirror.bit.edu.cn/apache/tomcat/tomcat-9/v9.0.24/bin/apache-tomcat-9.0.24.tar.gz
tar xf apache-tomcat-9.0.24.tar.gz -C /usr/local/
cp jenkins.war apache-tomcat-9.0.24/webapps/
# 启动/usr/local/tomcat/bin/catalina.sh start
# 停止/usr/local/tomcat/bin/shutdown.sh
```

1.2.2 CentOS环境部署

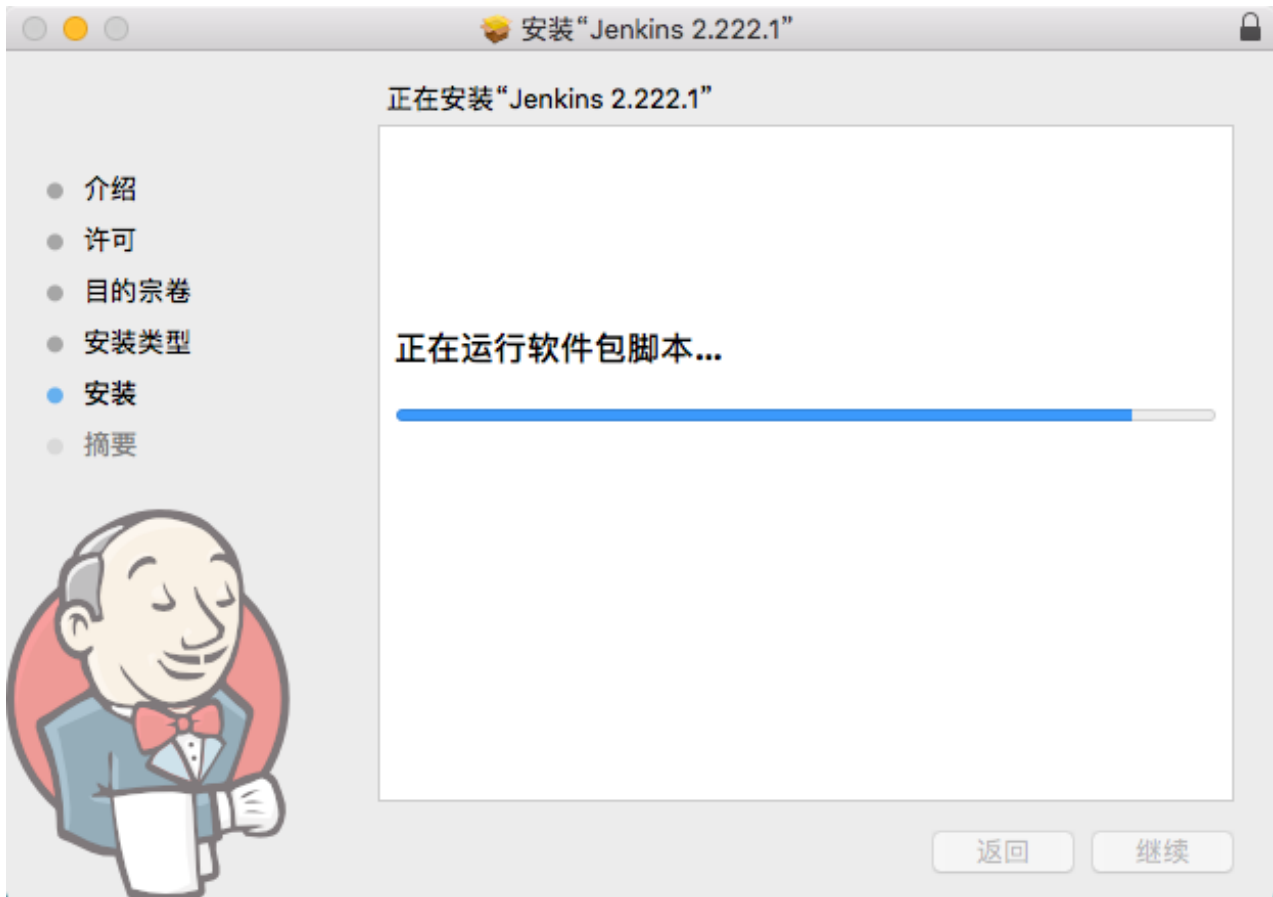
普遍在centos系统部署Jenkins，可以下载jenkins的最新rpm包部署。

```
wget https://mirrors.tuna.tsinghua.edu.cn/jenkins/redhat-stable/jenkins-2.235.2-1.1.noarch.rpm
rpm -ivh jenkins-2.235.2-1.1.noarch.rpm
systemctl start jenkins
systemctl enable jenkins
```

1.2.3 MacOS环境部署

在Mac OS X机器上安装Jenkins CI服务器，可以手动下载pkg包安装或者通过brew自动安装。

手动下载pkg包安装，根据向导进一步安装。



使用brew部署

```
brew install jenkins-lts
```

```
#####
100.0%=> Downloading http://mirrors.jenkins.io/war-
stable/2.235.2/jenkins.war=> Downloading from
http://mirror.serverion.com/jenkins/war-
stable/2.235.2/jenki#####
##### 100.0%=> Installing dependencies for jenkins-lts: openjdk@11=>
Installing jenkins-lts dependency: openjdk@11=> Pouring openjdk@11-
11.0.7+10.high_sierra.bottle.tar.gz=> CaveatsFor the system Java wrappers to
find this JDK, symlink it with  sudo ln -sfn
/usr/local/opt/openjdk@11/libexec/openjdk.jdk
/Library/Java/JavaVirtualMachines/openjdk-11.jdk
openjdk@11 is keg-only, which means it was not symlinked into
/usr/local,because this is an alternate version of another formula.
If you need to have openjdk@11 first in your PATH run:  echo 'export
PATH="/usr/local/opt/openjdk@11/bin:$PATH"' >> /Users/zeyang/.bash_profile
For compilers to find openjdk@11 you may need to set:  export CPPFLAGS="-
I/usr/local/opt/openjdk@11/include"
==> Summary🍺 /usr/local/Cellar/openjdk@11/11.0.7+10: 650 files, 295.7MB==>
Installing jenkins-lts=> /usr/local/opt/openjdk@11/bin/jar xvf jenkins.war==>
CaveatsNote: When using launchctl the port will be 8080.
```

```
To have launchd start jenkins-lts now and restart at login: brew services
start jenkins-ltsOr, if you don't want/need a background service you can just
run: jenkins-lts==> Summary🍺 /usr/local/Cellar/jenkins-lts/2.235.2: 7 files,
66.4MB, built in 11 seconds==> Caveats==> openjdk@11For the system Java
wrappers to find this JDK, symlink it with sudo ln -sfn
/usr/local/opt/openjdk@11/libexec/openjdk.jdk
/Library/Java/JavaVirtualMachines/openjdk-11.jdk
openjdk@11 is keg-only, which means it was not symlinked into
/usr/local,because this is an alternate version of another formula.
If you need to have openjdk@11 first in your PATH run: echo 'export
PATH="/usr/local/opt/openjdk@11/bin:$PATH"' >> /Users/zeyang/.bash_profile
For compilers to find openjdk@11 you may need to set: export CPPFLAGS="-
I/usr/local/opt/openjdk@11/include"
==> jenkins-ltsNote: When using launchctl the port will be 8080.
To have launchd start jenkins-lts now and restart at login: brew services
start jenkins-ltsOr, if you don't want/need a background service you can just
run: jenkins-lts      # Start.brew services start jenkins-lts
# Stop.brew services stop jenkins-lts
```

1.2.4 基于Docker部署

```
docker pull jenkins/jenkins:lts
docker run -d -v jenkins_home:/var/jenkins_home -p 8080:8080 -p 50000:50000
jenkins/jenkins:lts

## 参数解释-d 后台运行-v 持久化jenkins数据目录-p 端口绑定  server:8080  agent:50000
```

1.3 配置

解锁：当您第一次访问Jenkins的时候，系统会要求您使用自动生成的密码对其进行解锁。解锁秘钥可以通过\$JENKINS_HOME/secrets/initialAdminPassword文件获取。还可以通过在启动日志中获取。

安装插件：分别是安装默认的插件和自定义选择要安装的插件，推荐还是使用默认的插件安装。

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.

创建用户：在这里创建一个管理员账号，到此jenkins的初始化配置已完成。

Create First Admin User

Username:

Password:

Confirm password:

Full name:

配置更新站点：由于使用官方的站点速度相对很慢，这里采用清华大学的jenkins更新站点。

这块经常出现问题：当改完后其实还是很慢，因为清华源代理的json文件的内容中还是指向的外网地址。推荐几种方法：

方法1：使用jenkins中文社区的插件源。安装中文社区插件（插件搜索关键字chinese），然后点击页面最下方超链接。最后会有提示使用插件源。

方法2: 配置代理域名转发

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```
location /download {    proxy_pass
http://mirrors.tuna.tsinghua.edu.cn/jenkins/;}
```

方法3:进入 jenkins 工作目录, 目录下面有一个 updates 的目录, 下面有一个 default.json 文件, 我们执行下面的命令替换插件地址: 替换完成后, 需要重启 Jenkins。

●

```
$ sed -i 's/http:\\\\updates.jenkins-ci.org\\/download/https:\\\\mirrors.tuna.tsinghua.edu.cn\\/jenkins/g' default.json && sed -i 's/http:\\\\www.google.com/https:\\\\www.baidu.com/g' default.json
```

我们一般应用最多的应该是在linux或者docker中使用。在linux环境中jenkins默认的配置文件中在/etc/sysconfig/jenkins中, 默认的启动用户为jenkins, 默认端口为8080。后期都是可以基于配置文件进行修改的。