

title: Android持续集成之Jenkins

date: 2018-05-03 15:17:21

tags: [CI,jenkins]

Jenkins是一个独立的开源软件项目，是基于Java开发的一种持续集成工具，用于监控持续重复的工作，旨在提供一个开放易用的软件平台，使软件的持续集成变成可能。前身是Hudson是一个可扩展的持续集成引擎。可用于自动化各种任务，如构建，测试和部署软件。

安装

```
$ wget -q -O - https://pkg.jenkins.io/debian/jenkins-ci.org.key | sudo apt-key add -  
$ sudo sh -c 'echo deb http://pkg.jenkins-ci.org/debian binary/ > /etc/apt/sources.list.d/jenkins.list'  
$ sudo apt-get update -y  
$ sudo apt-get install jenkins -y  
$ sudo /etc/init.d/jenkins start
```

完成以上步骤后，通过浏览器打开 <http://localhost:8080>，如果无法启动jenkins，可在/var/log/jenkins/jenkins.log下查看Jenkins log

```
550 May 03, 2018 4:18:10 PM winstone.Logger logInternal  
551 SEVERE: Container startup failed  
552 java.io.IOException: Failed to start Jetty  
553   at winstone.Launcher.<init>(Launcher.java:156)  
554   at winstone.Launcher.main(Launcher.java:354)  
555   at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)  
556   at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)  
557   at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)  
558   at java.lang.reflect.Method.invoke(Method.java:498)  
559   at Main._main(Main.java:312)  
560   at Main.main(Main.java:136)  
561 Caused by: java.net.BindException: Address already in use  
562   at sun.nio.ch.Net.bind0(Native Method)  
563   at sun.nio.ch.Net.bind(Net.java:433)  
564   at sun.nio.ch.Net.bind(Net.java:425)  
565   at sun.nio.ch.ServerSocketChannelImpl.bind(ServerSocketChannelImpl.java:223)  
566   at sun.nio.ch.ServerSocketAdaptor.bind(ServerSocketAdaptor.java:74)  
567   at org.eclipse.jetty.server.ServerConnector.openAcceptChannel(ServerConnector.java:334)  
568   at org.eclipse.jetty.server.ServerConnector.open(ServerConnector.java:302)  
569   at org.eclipse.jetty.server.AbstractNetworkConnector.doStart(AbstractNetworkConnector.java:80)  
570   at org.eclipse.jetty.server.ServerConnector.doStart(ServerConnector.java:238)  
571   at org.eclipse.jetty.util.component.AbstractLifecycle.start(AbstractLifecycle.java:68)  
572   at org.eclipse.jetty.server.Server.doStart(Server.java:397)  
573   at org.eclipse.jetty.util.component.AbstractLifecycle.start(AbstractLifecycle.java:68)  
574   at winstone.Launcher.<init>(Launcher.java:154)
```

如上图示，出现上面的报错信息，即端口号被占用，需按以下步骤修改Jenkins端口号

1.修改/etc/init.d/jenkins中do_start函数check_tcp_port命令，将端口号从8080换成8081

```
$ sudo vi /etc/init.d/jenkins

#
# Function that starts the daemon/service
#
do_start()
{
    .....

    # Verify that the jenkins port is not already in use, winstone does not
    exit
    # even for BindException
    check_tcp_port "http" "$HTTP_PORT" "8081" "$HTTP_HOST" "0.0.0.0" || ret
    urn 2

    .....
}
```

2.修改/etc/default/jenkins文件，将端口8080改成8081

```
$ sudo vi /etc/default/jenkins

# port for HTTP connector (default 8080; disable with -1)
HTTP_PORT=8081
```

3.重新启动jenkins

```
$ sudo /etc/init.d/jenkins start
$ ps -ef | grep jenkins
```

配置

浏览器打开gerrit url，即出现如下界面，admin初始密码保存在/var/lib/jenkins/secrets

解锁jenkins

为了确保管理员安全地安装jenkins，密码已写入到日志中（[不知道在哪里？](#)）该文件在服务器上：

```
/var/lib/jenkins/secrets/initialAdminPassword
```

请从本地复制密码并粘贴到下面。

管理员密码



继续

首次进入账户，根据提示安装推介的插件

自定义Jenkins

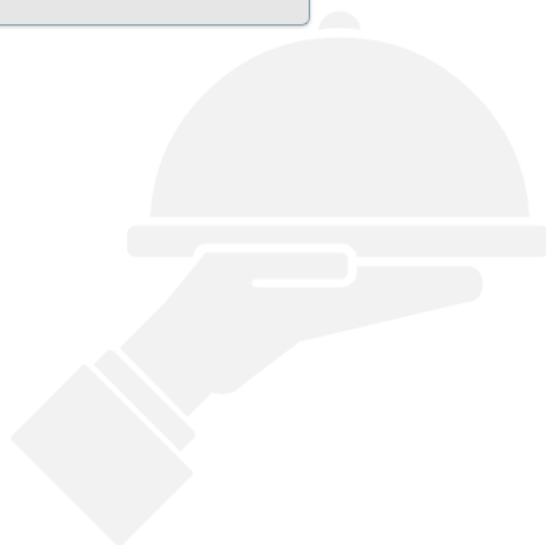
插件通过附加特性来扩展Jenkins以满足不同的需求。

安装推荐的插件

安装Jenkins社区推荐的插件。

选择插件来安装

选择并安装最适合的插件。



推介安装包括如下插件

新手入门

✓ Folders	OWASP Markup Formatter	Build Timeout	Credentials Binding	** JDK Tool ** Script Security ** Command Agent Launcher Folders ** bouncycastle API ** Struts ** Pipeline: Step API
Timestampers	Workspace Cleanup	Ant	Gradle	
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View	
Git	Subversion	SSH Slaves	Matrix Authorization Strategy	
PAM Authentication	LDAP	Email Extension	Mailer	
				** - 需要依赖

进入jenkins后，界面如下显示

-  新建任务
-  用户
-  构建历史
-  系统管理
-  我的视图
-  Credentials
-  新建视图

欢迎使用Jenkins!

开始 [创建一个新任务](#)

构建队列

队列中没有构建任务

构建执行状态

1 空闲

2 空闲