# 前言

在敏捷开发中,需要不断的持续集成,发布,测试。为了减少打包和发布的时间和减少出错率,自动集成发布变得非常重要和高效。以下配置是基于 jenkins的war包的安装配置,项目例子为 svn + maven 的 webapp项目。

# 1. 前期准备

- 1. jdk 1.8
- 2. tomcat 7
- 3. maven 3

# 2. 首先去jenkins的官网下载安装包 https://jenkins.io/

### 点击下载;

LTS为稳定版, Weekly为最新版。

根据需要选择对应的 (.war) 文件下载



# **Jenkins**

#### Build great things at any scale

The leading open source automation server, Jenkins provides hundreds of plugins to support building, deploying and automating any project.

Documentation

Download

# Getting started with Jenkins

The Jenkins project produces two release lines, LTS and weekly. Depending on your organization's needs, one may be preferred over the other.

Both release lines are distributed as \_war files, native packages, installers, and Docker containers. Packages with the & gear icon are maintained by third parties.

### Long-term Support (LTS)

LTS (Long-Term Support) releases are chosen every 12 weeks from the stream of regular releases as the stable release for that time period. Learn more...

#### Changelog | Upgrade Guide | Past Releases

Deploy Jenkins 2.107.2

Complete Deploy to Azure
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Download .	Jenkins 2.	.107.2 for:
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Docker	
FreeBSD	
Gentoo 🕸	
Mac OS X	
OpenBSD 🕸	
openSUSE	
Red Hat/Fedora/CentOS	
Ubuntu/Debian	
Windows	
Generic Java package (.war)	

### Weekly

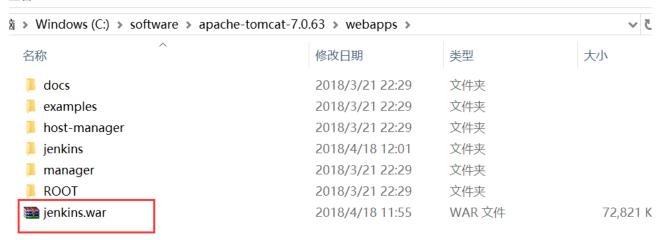
A new release is produced weekly to deliver bug fixes and features to users and plugin developers.

#### Changelog | Past Releases

	Download Jenkins 2.117 for:
	Arch Linux 🕸
	Docker
	FreeBSD 🕸
	Gentoo 🎕
	Mac OS X
	OpenBSD 🕸
	openSUSE
	Red Hat/Fedora/CentOS
	Ubuntu/Debian
	OpenIndiana Hipster 🕸
,	Windows
	Generic Java package (.war)

# 2. 把下载到jenkins.war 放到 tomcat的webapps下

旦有



# 3. 运行 tomcat的bin下 startup.bat

如果端口又冲突,需要修改 tomcat/conf/server.xml 下的 相应的port 口

> Windows (C:) > software > apache-tome	cat-7.0.63 > bin		
名称	修改日期	类型	大
	2015/6/30 11:12	Executable Jar File	
catalina.bat	2015/6/30 11:12	Windows 批处理文件	
catalina.sh	2015/6/30 11:12	Shell Script	
atalina-tasks.xml	2015/6/30 11:12	XML 文档	
<b>≜</b> commons-daemon.jar	2015/6/30 11:12	Executable Jar File	
commons-daemon-native.tar.gz	2015/6/30 11:12	WinRAR 压缩文件	
configtest.bat	2015/6/30 11:12	Windows 批处理文件	
configtest.sh	2015/6/30 11:12	Shell Script	
<b>S</b> daemon.sh	2015/6/30 11:12	Shell Script	
■ digest.bat	2015/6/30 11:12	Windows 批处理文件	
digest.sh	2015/6/30 11:12	Shell Script	
setclasspath.bat	2015/6/30 11:12	Windows 批处理文件	
setclasspath.sh	2015/6/30 11:12	Shell Script	
shutdown.bat	2015/6/30 11:12	Windows 批处理文件	
shutdown.sh	2015/6/30 11:12	Shell Script	
startup.bat	2015/6/30 11:12	Windows 批处理文件	
startup.sh	2015/6/30 11:12	Shell Script	
	2015/6/30 11:12	Executable Jar File	
🗃 tomcat-native.tar.gz	2015/6/30 11:12	WinRAR 压缩文件	
stool-wrapper.bat	2015/6/30 11:12	Windows 批处理文件	
	0045404004440	Ct 11.0 · ·	

# Linux下安装

```
sudo wget -0 /etc/yum.repos.d/jenkins.repo
https://pkg.jenkins.io/redhat-stable/jenkins.repo
sudo rpm --import https://pkg.jenkins.io/redhat-
stable/jenkins.io.key
sudo yum install jenkins
```

### 修改运行用户和端口

```
sudo vi /etc/sysconfig/jenkins

#改成对应运行用户

JENKINS_USER="zero"

#改成相应的端口

JENKINS_PORT="8080"
```

# 特殊设置,一般情况不需要

### 安装完成后,有如下相关目录:

- (1) /usr/lib/jenkins/: jenkins安装目录, WAR包会放在这里。
- (2)/etc/sysconfig/jenkins: jenkins配置文件, "端口", "JENKINS\_HOME"等都可以在这里配置。
  - (3) /var/lib/jenkins/: 默认的JENKINS\_HOME。
  - (4) /var/log/jenkins/jenkins.log: Jenkins日志文件。
  - (5) /var/cache/jenkins/: 启动cache (开始可能没有)。

# 修改一下目录的用户归属,和JENKINS\_USER对应

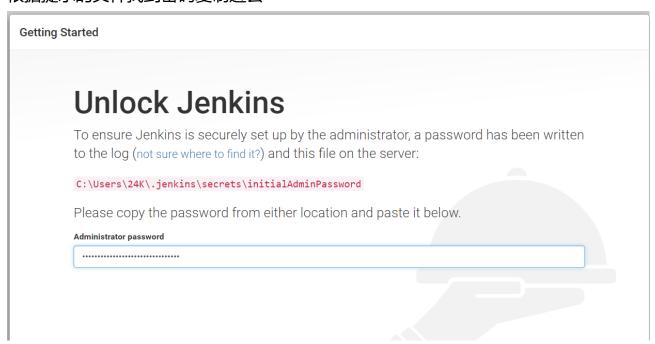
```
chown -R zero /usr/lib/jenkins/
chown -R zero /etc/sysconfig/jenkins
chown -R zero /var/lib/jenkins/
chown -R zero /var/log/jenkins.log
chown -R zero /var/cache/jenkins/
```

### 启动和关闭jenkins

```
sudo service jenkins start
sudo service jenkins stop
```

# 4. 进入jenkins配置页面: http://localhost:8080/jenkins

根据提示的文件找到密码复制进去



linux可以一下命令查找密码:

sudo tail /var/lib/jenkins/secrets/initialAdminPassword

下一步后,根据需要安装插件,基于本例子需要安装

配置管理员账号密码:

# **Create First Admin User**

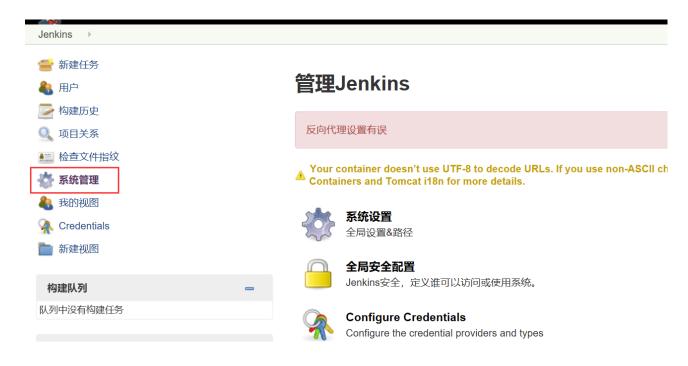
用户名: 密码: 密码: 单子邮件地址:

Jenkins 2.60.1 Continue as admin Save and Finish

# 登陆



# 5. 进行各种配置,进入系统管理



### 安装所需要的插件



### 查找/ 或者选择需要的插件

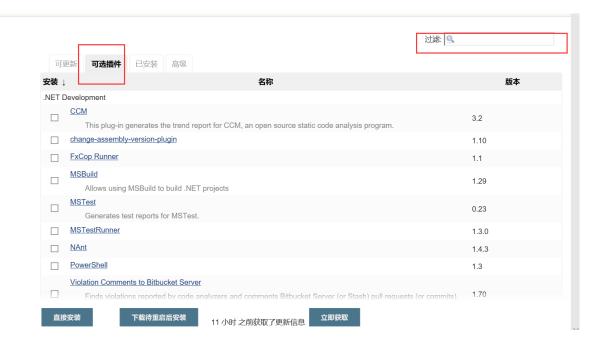
本次教程需要安装如下插件,安装完重启一下tomcat

• svn : Subversion Plug-in

• maven : Maven Integration plugin

• ssh: Publish Over SSH

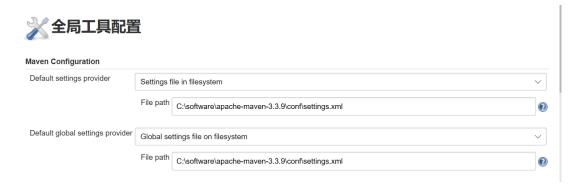
• web : Deploy to container Plugin



# 6. 全局工具配置



• 配置maven setting (可以用默认)



• 配置 JDK, 选择自己安装好的路径



• 配置 maven,选择自己安装好的路径



### 配置完保存

Maven		
Maven 安装	Maven	
	Name	naven
	MAVEN_HOME C	C:\software\apache-maven-3.3.9
	□ 自动安装	
		删除 Mave
	新增 Maven	
	系统下Maven 安装列表	
Docker		
Docker 安装	新增 Docker	
	系统下Docker 安装列表	
_		
Save App	ly	

# 7. 系统设置



### • 配置ssh



# 8. 新建任务



**Jenkins** 



新建任务



用户



构建历史



项目关系



检查文件指纹



系统管理



我的视图



Credentials



新建视图

# 构建队列

\_

• 创建选择maven 项目,然后拉到底下点击确认

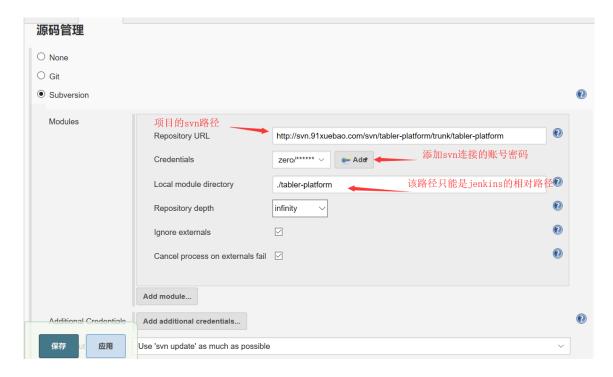




• 每次构建都会产生日志记录,按需要配置这个来清理构建日志



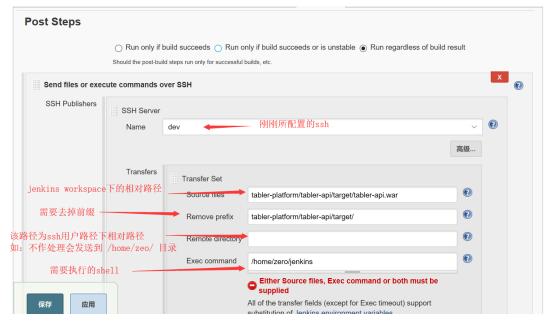
• 配置SVN

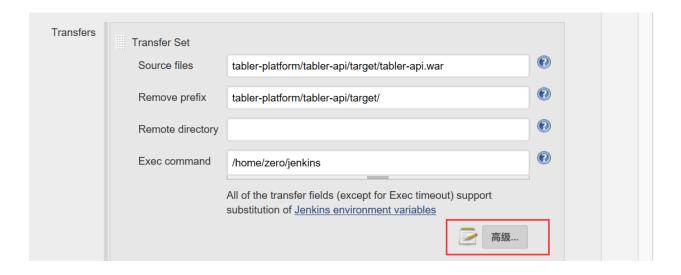


• 配置打包命令: clean install package -Dmaven.test.skip=true -Pdev 清理,装载,打包,跳过junit测试,用dev环境的配置打包

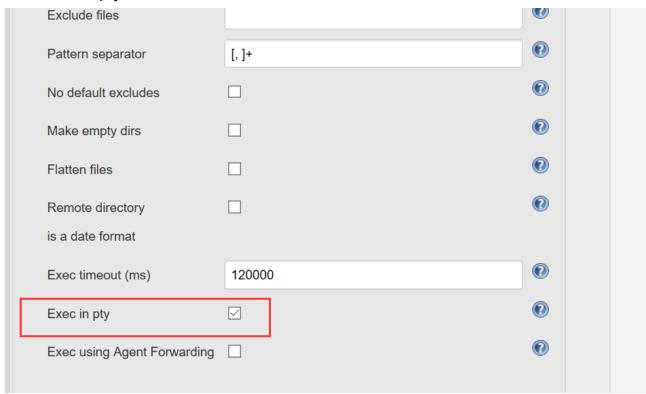


• 配置发送war包到linux系统和执行命令运行发布





### 勾选Exec in pty. 不然可能linux 限制了执行shell的操作



### • shell 例子

```
#!/bin/bash
1
2
   export LANG="en_US.UTF-8"
3
   echo "jenkins deploy start"
4
   CATALINA_BASE=/opt/vhosts/api.91xuebao.com/
5
   WEB_APP_NAME=tabler-api
6
   WAR_FILE=/home/richard/jenkins_transfer/$WEB_APP_NAME.war
   if [ -f $WAR_FILE ] ;then
8
       echo "$WAR_FILE exists"
9
10
   else
```

```
11
       echo "$WAR_FILE not exists"
       exit 1
12
   fi
13
   echo "backup $WEB APP NAME webapp"
14
   sudo rm -rf $CATALINA BASE/webapps/$WEB APP NAME.zip
16 sudo zip $CATALINA BASE/webapps/$WEB_APP_NAME.zip
   $CATALINA BASE/webapps/$WEB APP NAME > /dev/null
17 echo "delete $WEB_APP_NAME webap"
  sudo rm -rf $CATALINA_BASE/webapps/$WEB_APP_NAME/*
19 echo "start unzip $WEB APP NAME.war"
20 | sudo unzip $WAR_FILE -d $CATALINA_BASE/webapps/$WEB_APP_NAME/ >
   /dev/null
21 echo "restart server"
22 sudo $CATALINA_BASE/bin/tomcat restart
23 echo "finished"
```

### 需要赋予执行权限

```
1 chmod u+x deploy_tabler_api.sh
```

# 8. 运行构建

回到主页,将看到刚刚新建的任务



点击进入和点击立即构建,可以选择自动更新,就能看到构建的进度



### 查看构建日志,点击进入



### 查看控制台输出



```
inflating: /opt/vhosts/api, 91xuebao, com/webapps/tabler-api/WEB-INF/web, xml
              creating: /opt/vhosts/api.91xuebao.com/webapps/tabler-api/META-INF/maven/
               creating: \ /opt/vhosts/api.\ 91 xuebao.\ com/webapps/tabler-api/META-INF/maven/com.\ comagic.\ tabler/api/meta-info/maven/com.\ comagic.\ tabler/api/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-i
               creating: \ /opt/vhosts/api. \ 91 xuebao. \ com/webapps/tabler-api/META-INF/maven/com. \ comagic. \ tabler/tabler-api/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-info/meta-i
           inflating: /opt/vhosts/api.91xuebao.com/webapps/tabler-api/META-INF/maven/com.comagic.tabler/tabler-api/pom.xml
          inflating: /opt/vhosts/api.91xuebao.com/webapps/tabler-api/META-INF/maven/com.comagic.tabler/tabler-api/pom.properties
restart server
Restarting @api.xuebao.com comagic@...
Stopping @api.xuebao.com comagic@...
Stopped @api.xuebao.com comagic@.
Starting @api. xuebao.com comagic@...
finished
SSH: EXEC: completed after 3,009 ms
{\tt SSH: Disconnecting \ configuration \ [dev] \ \dots}
SSH: Transferred 1 file(s)
Finished: SUCCESS
```

### 9. 其他问题

• 打包乱码解决

进入 系统管理 -> 系统设置 -> Maven项目配置

全局MAVEN\_OPTS 添加 -Dsun.jnu.encoding=UTF-8 -Dfile.encoding=UTF-8

