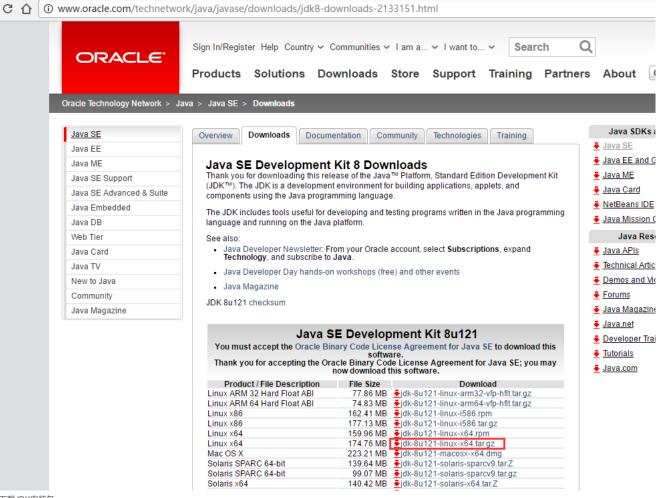
安装JDK

本节介绍如何安装 java jdk。软件包中包含的软件及版本:Tomcat: 1.8.0_121

说明:这是写文档时参考的软件版本。您下载的版本可能与此不同。

• 准备工作

下载 JDK 安装包,地址: http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html



下载JDK安装包

将下载好的 JDK 包上传到 Linux 上面:

```
[root@localhost mnt]# ls
[root@localhost mnt]#
```

上传到Linux

- 操作步骤
- 1. 新建一个目录。
 - [root@localhost ~]# cd /usr/
 - [root@localhost usr]# mkdir java
 - [root@localhost usr]# cd java/ c.
 - [root@localhost java]# mkdir jdk d.
 - [root@localhost java]# cd jdk e.
 - f. [root@localhost jdk]#

```
root@lócalhost ~]#
root@localhost ~]# cd /usr/
root@localhost usr]# mkdir java
root@localhost usr]# cd java/
root@localhost java]# mkdir jdk
root@localhost java]# ls
[root@localhost java]#
```

新建目录

- 2. 解压 jdk-8u121-linux-x64.tar.gz 到 jdk 目录下:
 - [root@localhost mnt]# tar -xvf jdk-8u121-linux-x64.tar.gz -C /usr/java/jdk/

```
[root@localhost ~]# cd /usr/java/jdk;
[root@localhost jdk]# ls
解压
      3. 配置环境变量。
                   [root@localhost mnt]# vi /etc/profile
[root@localhost mnt]# vi /etc/profile
      4. 在底部添加以下内容。
#set java environment
export JAVA_HOME=/usr/java/jdk/jdk1.8.0_121
export JRE_HOME=/usr/java/jdk/jdk1.8.0_121/jre
export CLASSPATH=.: $JAVA_HOME/lib$: JRE_HOME/lib: $CLASSPATH
export PATH=$JAVA HOME/bin:$JRE HOME/bin/$JAVA HOME:$PATH
#set java environment
export JAVA_HOME=/usr/java/jdk/jdk1.8.0_121
export JRE_HOME=/usr/java/jdk/jdk1.8.0_121/jre
export CLASSPATH=.:$JAVA_HOME/lib$:JRE_HOME/lib:$CLASSPATH
 export PATH=$JAVA_HOME/bin:$JRE_HOME/bin/$JAVA_HOME:$PATH
添加内容
      5. 保存后执行以下命令:
              a. [root@localhost mnt]# source /etc/profile
[root@localhost mnt]# source /etc/profile
执行命令
      6. 验证安装。
                   [root@localhost ~]# java -version
[root@localhost mnt]# java -version
java version "1.8.0_121"
Java(TM) SE Runtime Environment (build 1.8.0_121-b13)
Java HotSpot(TM) 64-Bit Server vM (build 25.121-b13, mixed mode)
[root@localhost mnt]#
验证安装
我们可以看到 JDK 已经成功安装了。
步骤 3 安装 Tomcat8.0
```

本节介绍如何部署Tomcat环境。软件包中包含的软件及版本:Tomcat: 8.5.11。

说明:这是写文档时参考的软件版本。您下载的版本可能与此不同。

准备工作

下载 tomcat linux 的包,地址: http://tomcat.apache.org/download-80.cgi

Download Which version? Tomcat 9 Tomcat 8 Tomcat 7 Tomcat 6 **Tomcat Connectors** Tomcat Native Taglibs Archives

Documentation Tomcat 9.0

Tomcat 8.5 Tomcat 8.0 Tomcat 7.0 Tomcat 6.0 **Tomcat Connectors** Tomcat Native Wiki Migration Guide Presentations

Problems?

Security Reports Find help FAO Mailing Lists **Bug Database** IRC

Release Integrity

You must verify the integrity of the downloaded files. We provide OpenPGP signat file which contains the OpenPGP keys of Tomcat's Release Managers. We also prov file, you should calculate a checksum for your download, and make sure it is the sa

You are currently using http://apache.mirrors.ionfish.org/. If you encounter a pr there are backup mirrors (at the end of the mirrors list) that should be available.

Other mirrors: http://apache.claz.org/

▼ Change

8.5.11

Please see the **README** file for packaging information. It explains what every distri

Binary Distributions

- · Core:
 - o zip (pgp, md5, sha1) tar.gz (pgp, md5, sha1)
 - 32-bit Windows zip (pgp, md5, sha1)
 - o 64-bit Windows zip (pgp, md5, sha1)
 - o 32-bit/64-bit Windows Service Installer (pgp, md5, sha1)
- Full documentation:
- o tar.gz (pgp, md5, sha1)

将下载好的 Tomcat 包上传到 Linux 上面:

```
[root@localhost mnt]# ls 
apache-tomcat-8.5.11.tar.gz 
[root@localhost mnt]#
jdk-8u121-linux-x64.tar.gz
```

上传

- 操作步骤
- 1. 解压 apache-tomcat-8.5.11.tar.gz
 - a. # tar -xvf apache-tomcat-8.5.11.tar.gz -C /usr/java/tomcat/

```
tar -xvf apache-tomcat-8.5.11.tar.gz -C /usr/java/tomcat/
```

解压

- 2. 解压之后, 我们进入解压的文件:
 - a. [root@localhost mnt]# cd /usr/java/tomcat/apache-tomcat-8.5.11/

```
[root@localhost mnt]# cd /usr/java/tomcat/apache-tomcat-8.5.11/
[root@localhost apache-tomcat-8.5.11]# ls
bin conf lib LICENSE logs NOTICE RELEASE-NOTES RUNNING.txt temp webapps work
[root@localhost apache-tomcat-8.5.11]#
```

进入解压的文件

- o bin 目录中存放 Tomcat 的一些脚本文件,最重要的也是用的最多就是启动和关系 tomcat 服务脚本。
- o conf: 存放 Tomcat 服务器的各种全局配置文件, 其中最重要的是 server.xml 和 web.xml。
- 。 webapps: Tomcat 的主要 Web 发布目录,默认情况下把 Web 应用文件放于此目录。
- o logs: 存放 Tomcat 执行时的日志文件
- 3. 进入到 tomcat 的 bin 目录:
 - a. [root@localhost apache-tomcat-8.5.11]# cd bin/

```
[root@localhost apache-tomcat-8.5.11]# cd bin/
[root@localhost bin]# ls
bootstrap.jar configtest.bat catalina.bat configtest.sh daemon.sh digest.bat catalina-tasks.xml digest.bat commons-daemon.jar commons-daemon-native.tar.gz setclasspath.bat tool-wrapper.sh version.bat version.sh tomcat-juli.jar
```

bin目录

- 4. 编辑 setclasspath.sh 脚本,添加以下内容:
 - a. export JAVA_HOME=/usr/java/jdk/jdk1.8.0_121
 - b. export JRE_HOME=/usr/java/jdk/jdk1.8.0_121/jre

```
export JAVA_HOME=/usr/java/jdk/jdk1.8.0_121
export JRE_HOME=/usr/java/jdk/jdk1.8.0_121/jre
```

添加内容

- 5. 保存后输入以下命令启动 tomcat。
 - a. [root@localhost bin]# ./startup.sh

```
[root@localhost bin]# ./startup.sh
Using CATALINA_BASE: /usr/java/tomcat/apache-tomcat-8.5.11
Using CATALINA_HOME: /usr/java/tomcat/apache-tomcat-8.5.11
Using CATALINA_TMPDIR: /usr/java/tomcat/apache-tomcat-8.5.11/temp
Using JRE_HOME: /usr/java/jdk/jdk1.8.0_121/jre
Using CLASSPATH: /usr/java/tomcat/apache-tomcat-8.5.11/bin/bootstrap.jar:/usr/java/tomcat/apache-tomcat-8.5.11/bin/bootstrap.jar:/usr/java/tomcat/apache-tomcat-started.
```

启动

6. 从浏览器访问,输入http://ip:8080 即可访问,如果外部无法访问,但是 Linux 内部却可以访问,这种情况一般是防火墙的问题, 关闭防火墙就可以了。 Documentation Configuration Examples Wiki Mailing Lists

Apache Tomcat/8.5.11



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

Security Considerations HOW-TO Manager Application HOW-TO

Clustering/Session Replication HOW-TO

M Н

Developer Quick Start

Tomcat Setup First Web Application Realms & AAA JDBC DataSources Examples

Servlet Specification **Tomcat Versions**

Managing Tomcat

For security, access to the manager webapp is restricted. Users are defined in

\$CATALINA HOME/conf/tomcat-users.xml

In Tomcat 8.5 access to the manager application is split between different users. Read more...

Release Notes

Changelog

Migration Guide

Security Notices

Documentation

Tomcat 8.5 Documentation

Tomcat 8.5 Configuration

Tomcat Wiki

Find additional important configuration information in:

\$CATALINA HOME/RUNNING. txt

Developers may be interested in:

Tomcat 8.5 Bug Database

Tomcat 8.5 JavaDocs

Tomcat 8.5 SVN Repository

Getting Help

FAQ and Mailing Lists

The following mailing lists are

tomcat-announce

nportant announcements, rele vulnerability notifications. (Low

tomcat-users

User support and discussion

taglibs-user

User support and discussion for

Development mailing list, includi messages

访问

7. 安装好 Tomcat 后,在 webapps 下面自带一个 demo,通过浏览器访问即可看到已经部署好的 web 项目。

a. [root@localhost apache-tomcat-8.5.11]# cd webapps/

[root@localhost apache-tomcat-8.5.11]# cd webapps/ [root@localhost webapps]# ls [root@localhost webapps]#

访问

← → C ↑ ① 192.168.56.102:8080/examples/

Apache Tomcat Examples

- Servlets examples
- JSP Examples
- WebSocket Examples

访问

8. 部署项目只需要把项目复制到 Tomcat 的 Webapps 下即可。这也是最简单的一种方式。如果您想更改您的 tomcat 服务接口,那 么可以到 tomcat 下的 conf 目录, 里面有个 server.xml 文件。重要的配置信息在这里:

port="8080" protocol="HTTP/1.1'
connectionTimeout="20000"
redirectPort="8443" /> 配置 name="localhost" unpackWARs="true" appBase="webapps" autoDeploy="true"> <Host

配置

- 9. 在配置文件中有一个 unpackWARs 参数,如果设置为 true 即可以部署 war 包项目, tomcat 会自动解压文件。还可以在 server.xml 中使用 Context 标签指定项目在任何位置。
 - a. <Context path="定web应用的虚拟路径名" docBase="要部署的Web应用的源路径(实际位置)" reloadable="true" />

安装nginx

Nginx是一个小巧而高效的Linux下的Web服务器软件,是由 Igor Sysoev 为俄罗斯访问量第二的 Rambler.ru 站点开发的,已经在一些俄罗斯的大型网站上运行多年,目前很多国内外的门户网站、行业网站也都在是使用Nginx,相当稳定。

```
1、添加运行nginx服务进程的用户
```

```
1. # groupadd -r nginx
     2. # useradd -r -g nginx nginx
2、下载源码包解压编译。
     1. # wget http://nginx.org/download/nginx-1.10.2.tar.gz
     2. # tar xvf nginx-1.10.2.tar.gz -C /usr/local/src
     3. # yum groupinstall "Development tools"
     4. # yum -y install gcc wget gcc-c++ automake autoconf libtool libxml2-devel libxslt-devel perl-devel perl-
     ExtUtils-Embed pcre-devel openssl-devel
     5. # cd /usr/local/src/nginx-1.10.2
     6. # ./configure \
     7. --prefix=/usr/local/nginx \
     8. --sbin-path=/usr/sbin/nginx \setminus
     9. --conf-path=/etc/nginx/nginx.conf \
     10. --error-log-path=/var/log/nginx/error.log \
     11. --http-log-path=/var/log/nginx/access.log \
     12. --pid-path=/var/run/nginx.pid \
     13. --lock-path=/var/run/nginx.lock \
     14. --http-client-body-temp-path=/var/tmp/nginx/client \
     15. --http-proxy-temp-path=/var/tmp/nginx/proxy \
     16. --http-fastcgi-temp-path=/var/tmp/nginx/fcgi \
     17. --http-uwsgi-temp-path=/var/tmp/nginx/uwsgi \
     18. --http-scgi-temp-path=/var/tmp/nginx/scgi \
     19. --user=nginx \
     20. --group=nginx \
     21. --with-pcre \
     22. --with-http_v2_module \
     23. --with-http_ssl_module \
     24. --with-http_realip_module \
     25. --with-http_addition_module \
     26. --with-http_sub_module \
     27. --with-http dav module \
     28. --with-http_flv_module \
     29. --with-http mp4 module \
     30. --with-http_gunzip_module \
     31. --with-http_gzip_static_module \
     32. --with-http_random_index_module \setminus
     33. --with-http secure link module \
     34. --with-http_stub_status_module \
     35. --with-http_auth_request_module \
     36. --with-mail \
     37. --with-mail_ssl_module \
     38. --with-file-aio \
     39. --with-ipv6 \
     40. --with-http v2 module \
     41. --with-threads \
     42. --with-stream \
     43. --with-stream_ssl_module
     44. # make && make install
     45. # mkdir -pv /var/tmp/nginx/client
```

3、添加SysV启动脚本。

- 1. # vim /etc/init.d/nginx
- 2. #!/bin/sh
- 3. #

```
4. # nginx - this script starts and stops the nginx daemon
5. #
6. # chkconfig: - 85 15
7. # description: Nginx is an HTTP(S) server, HTTP(S) reverse \
                  proxy and IMAP/POP3 proxy server
9. # processname: nginx
10. # config:
                 /etc/nginx/nginx.conf
11. # config:
                  /etc/sysconfig/nginx
12. # pidfile:
                  /var/run/nginx.pid
13. # Source function library.
14. . /etc/rc.d/init.d/functions
15. # Source networking configuration.
16. . /etc/sysconfig/network
17. # Check that networking is up.
18. [ "$NETWORKING" = "no" ] && exit 0
19. nginx="/usr/sbin/nginx"
20. prog=$(basename $nginx)
21. NGINX_CONF_FILE="/etc/nginx/nginx.conf"
22. [ -f /etc/sysconfig/nginx ] && . /etc/sysconfig/nginx
23. lockfile=/var/lock/subsys/nginx
24. start() {
        [ -x $nginx ] || exit 5
25.
        [ -f $NGINX_CONF_FILE ] || exit 6
26.
        echo -n $"Starting $prog: "
28.
        daemon $nginx -c $NGINX_CONF_FILE
29.
        retval=$?
30.
31.
        [ $retval -eq 0 ] && touch $lockfile
32.
        return $retval
33. }
34. stop() {
35.
        echo -n $"Stopping $prog: "
36.
        killproc $prog -QUIT
        retval=$?
37.
        echo
38.
        [ $retval -eq 0 ] && rm -f $lockfile
40.
        return $retval
41. killall -9 nginx
42. }
43. restart() {
44.
        configtest | return $?
45.
        stop
46.
        sleep 1
47.
        start
48. }
49. reload() {
        configtest | return $?
51.
        echo -n $"Reloading $prog: "
        killproc $nginx -HUP
53. RETVAL=$?
54.
        echo
55. }
56. force_reload() {
57.
        restart
58. }
59. configtest() {
60. $nginx -t -c $NGINX_CONF_FILE
61. }
62. rh_status() {
```

```
63.
        status $prog
64. }
65. rh_status_q() {
66.
        rh_status >/dev/null 2>&1
67.
68. case "$1" in
69.
        start)
70.
            rh_status_q && exit 0
71.
        $1
72.
73.
        stop)
74.
             rh_status_q || exit 0
75.
             $1
76.
        \verb|restart|| \verb|configtest||
77.
78.
             $1
79.
80.
        reload)
81.
             rh_status_q || exit 7
82.
             $1
83.
84.
        force-reload)
85.
             {\tt force\_reload}
86.
87.
        status)
88.
             rh_status
89.
        condrestart \,|\, try\text{--restart)}
90.
91.
             rh_status_q || exit 0
92.
93.
94.
           echo $"Usage: $0 {start|stop|status|restart|condrestart|try-restart|reload|force-reload|configtest}"
95.
96. esac
```

4、赋予脚本执行权限。

chmod +x /etc/init.d/nginx

5、添加至服务管理列表,设置开机自启。

- 1. # chkconfig --add nginx
- 2. # chkconfig nginx on

6、启动服务。

service nginx start