

# 使用 yum 安装 jdk

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## 1. 列出可安装的 jdk 软件包

执行命令 `yum list | fgrep jdk --color`

```
[chinahadoop@chinahadoop0 ~]$ yum list | fgrep jdk --color
java-1.6.0-openjdk.x86_64                1:1.6.0.0-11.1.13.4.el6             @anacon
da-CentOS-201410241409.x86_64/6.6
java-1.7.0-openjdk.x86_64                1:1.7.0.65-2.5.1.2.el6_5            @anacon
da-CentOS-201410241409.x86_64/6.6
java-1.6.0-openjdk.x86_64                1:1.6.0.38-1.13.10.0.el6_7          updates
java-1.6.0-openjdk-demo.x86_64          1:1.6.0.38-1.13.10.0.el6_7          updates
java-1.6.0-openjdk-devel.x86_64          1:1.6.0.38-1.13.10.0.el6_7          updates
java-1.6.0-openjdk-javadoc.x86_64        1:1.6.0.38-1.13.10.0.el6_7          updates
java-1.6.0-openjdk-src.x86_64            1:1.6.0.38-1.13.10.0.el6_7          updates
java-1.7.0-openjdk.x86_64                1:1.7.0.95-2.6.4.0.el6_7            updates
java-1.7.0-openjdk-demo.x86_64           1:1.7.0.95-2.6.4.0.el6_7            updates
java-1.7.0-openjdk-devel.x86_64          1:1.7.0.95-2.6.4.0.el6_7            updates
java-1.7.0-openjdk-javadoc.noarch        1:1.7.0.95-2.6.4.0.el6_7            updates
java-1.7.0-openjdk-src.x86_64            1:1.7.0.95-2.6.4.0.el6_7            updates
```

## 2. 安装 java-1.7.0-openjdk-devel.x86\_64

执行命令 `sudo yum install java-1.7.0-openjdk-devel.x86_64`

```
[chinahadoop@chinahadoop0 ~]$ sudo yum install java-1.7.0-openjdk-devel.x86_64
已加载插件: fastestmirror, refresh-packagekit, security
设置安装进程
Loading mirror speeds from cached hostfile
 * base: mirror.bit.edu.cn
 * extras: mirrors.pubyun.com
 * updates: mirror.bit.edu.cn
解决依赖关系
--> 执行事务检查
---> Package java-1.7.0-openjdk-devel.x86_64 1:1.7.0.95-2.6.4.0.el6_7 will be
安装
--> 处理依赖关系 java-1.7.0-openjdk = 1:1.7.0.95-2.6.4.0.el6_7, 它被软件包 1:jav
a-1.7.0-openjdk-devel-1.7.0.95-2.6.4.0.el6_7.x86_64 需要
--> 执行事务检查
---> Package java-1.7.0-openjdk.x86_64 1:1.7.0.65-2.5.1.2.el6_5 will be 升级
---> Package java-1.7.0-openjdk.x86_64 1:1.7.0.95-2.6.4.0.el6_7 will be an updat
e
--> 处理依赖关系 libpcsclite.so.1()(64bit), 它被软件包 1:java-1.7.0-openjdk-1.7.
0.95-2.6.4.0.el6_7.x86_64 需要
--> 执行事务检查
---> Package pcsc-lite-libs.x86_64 0:1.5.2-15.el6 will be 安装
--> 完成依赖关系计算

依赖关系解决
```

软件包	架构	版本	仓库	大小
-----	----	----	----	----



```

正在安装:
  java-1.7.0-openjdk-devel      x86_64      1:1.7.0.95-2.6.4.0.el6_7      updates      9.4 M
为依赖而安装:
  pcsc-lite-libs                x86_64      1.5.2-15.el6                  base         28 k
为依赖而更新:
  java-1.7.0-openjdk            x86_64      1:1.7.0.95-2.6.4.0.el6_7      updates      26 M

事务概要
-----
Install      2 Package(s)
Upgrade      1 Package(s)

总下载量: 35 M
确定吗? [y/N]: y

输入字母 y 然后按下回车键

下载软件包:
http://mirror.bit.edu.cn/centos/6.7/updates/x86_64/Packages/java-1.7.0-openjdk-1
.7.0.95-2.6.4.0.el6_7.x86_64.rpm: [Errno 12] Timeout on http://mirror.bit.edu.cn
/centos/6.7/updates/x86_64/Packages/java-1.7.0-openjdk-1.7.0.95-2.6.4.0.el6_7.x8
6_64.rpm: (28, 'Operation too slow. Less than 1 bytes/sec transferred the last 30
seconds')
尝试其他镜像。
(1/3): java-1.7.0-openjdk-1.7.0.95-2.6.4.0.el6_7.x86_64. | 26 MB      00:06
http://mirrors.pubyun.com/centos/6.7/updates/x86_64/Packages/java-1.7.0-openjdk-
devel-1.7.0.95-2.6.4.0.el6_7.x86_64.rpm: [Errno 12] Timeout on http://mirrors.pu
byun.com/centos/6.7/updates/x86_64/Packages/java-1.7.0-openjdk-devel-1.7.0.95-2.
6.4.0.el6_7.x86_64.rpm: (28, 'Operation too slow. Less than 1 bytes/sec transfer
ed the last 30 seconds')
尝试其他镜像。
(2/3): java-1.7.0-openjdk-devel-1.7.0.95-2.6.4.0.el6_7.x | 9.4 MB      00:02
(3/3): pcsc-lite-libs-1.5.2-15.el6.x86_64.rpm              | 28 kB      00:00
-----
总计                                     378 kB/s | 35 MB      01:36
运行 rpm_check_debug
执行事务测试
事务测试成功
执行事务
  正在安装      : pcsc-lite-libs-1.5.2-15.el6.x86_64                      1/4
  正在升级      : 1:java-1.7.0-openjdk-1.7.0.95-2.6.4.0.el6_7.x86_64      2/4
  正在安装      : 1:java-1.7.0-openjdk-devel-1.7.0.95-2.6.4.0.el6_7.x86_64 3/4
  清理          : 1:java-1.7.0-openjdk-1.7.0.65-2.5.1.2.el6_5.x86_64      4/4
  Verifying     : 1:java-1.7.0-openjdk-devel-1.7.0.95-2.6.4.0.el6_7.x86_64 1/4
  Verifying     : pcsc-lite-libs-1.5.2-15.el6.x86_64                     2/4
  Verifying     : 1:java-1.7.0-openjdk-1.7.0.95-2.6.4.0.el6_7.x86_64      3/4
  Verifying     : 1:java-1.7.0-openjdk-1.7.0.65-2.5.1.2.el6_5.x86_64      4/4

已安装:
  java-1.7.0-openjdk-devel.x86_64 1:1.7.0.95-2.6.4.0.el6_7

作为依赖被安装:
  pcsc-lite-libs.x86_64 0:1.5.2-15.el6

作为依赖被升级:
  java-1.7.0-openjdk.x86_64 1:1.7.0.95-2.6.4.0.el6_7

完毕!

```

### 3. 查看 jdk 的安装路径

执行命令 `rpm -ql java-1.7.0-openjdk-devel.x86_64 | fgrep bin --color`



```
[chinahadoop@chinahadoop0 ~]$ rpm -ql java-1.7.0-openjdk-devel.x86_64 | fgrep bin
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/appletviewer
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/apt
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/extcheck
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/idlj
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jar
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jarsigner
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/java
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/java-rmi.cgi
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/javac
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/javadoc
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/javah
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/javap
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jcmd
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jconsole
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jdb
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jhat
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jinfo
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jmap
/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64/bin/jps
```

## 4. 配置系统环境变量

修改 profile 文件, 执行命令 `sudo vim /etc/profile`

在文件最后加入内容

```
export JAVA_HOME=/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64
```

```
export PATH=.:$JAVA_HOME/bin:$PATH
```

```
export JAVA_HOME=/usr/lib/jvm/java-1.7.0-openjdk-1.7.0.95.x86_64
```

```
export PATH=.:$JAVA_HOME/bin:$PATH
```

```
:wq
```

输入命令:wq 保存并退出。

使环境变量马上生效, 执行命令 `source /etc/profile`

查看 jdk 版本, 使用 `jps` 查看当前运行的 java 进程。

```
[chinahadoop@chinahadoop0 ~]$ sudo vim /etc/profile
[chinahadoop@chinahadoop0 ~]$ source /etc/profile
[chinahadoop@chinahadoop0 ~]$ java -version
java version "1.7.0_95"
OpenJDK Runtime Environment (rhel-2.6.4.0.el6_7-x86_64 u95-b00)
OpenJDK 64-Bit Server VM (build 24.95-b01, mixed mode)
[chinahadoop@chinahadoop0 ~]$ jps
4672 Jps
```

