

Linux - yum安装

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目录

[1. 前言 3](#_Toc25595367)

[2. yum简介 3](#_Toc25595368)

[2.1 简介 3](#_Toc25595371)

[2.2 语法 3](#_Toc25595372)

[3. yum常用命令 6](#_Toc25595373)

[4. yum源管理 6](#_Toc25595374)

[4.1 查看yum的默认配置文件 6](#_Toc25595377)

[4.2 查看默认源 6](#_Toc25595378)

[4.3 更换源 7](#_Toc25595379)

# 前言

必须具备起码的命令知识

# yum简介



## 简介

* yum（ Yellow dog Updater, Modified）是一个在Fedora和RedHat以及SUSE中的Shell前端软件包管理器。
* 基於RPM包管理，能够从指定的服务器自动下载RPM包并且安装，可以**自动处理依赖性关系**，并且**一次安装所有依赖的软体包**，无须繁琐地一次次下载、安装。
* yum提供了查找、安装、删除某一个、一组甚至全部软件包的命令，而且命令简洁而又好记。

## 语法

|  |
| --- |
| yum [options] [command] [package ...] |

* **options：**可选，选项包括-h（帮助），-y（当安装过程提示选择全部为"yes"），-q（不显示安装的过程）等等
* **command：**要进行的操作
* **package**操作的对象

|  |
| --- |
| Loaded plugins: fastestmirror, refresh-packagekit, security  You need to give some command  Usage: yum [options] COMMAND  List of Commands:  check Check for problems in the rpmdb  check-update Check for available package updates  clean Remove cached data 清除缓存  deplist List a package's dependencies 列出包依赖  distribution-synchronization Synchronize installed packages to the latest available versions 将已安装的软件包同步到最新的可用版本  downgrade downgrade a package 降级包内容  erase Remove a package or packages from your system 从系统中删除一个或多个包  groupinfo Display details about a package group  groupinstall Install the packages in a group on your system  grouplist List available package groups  groupremove Remove the packages in a group from your system  help Display a helpful usage message  history Display, or use, the transaction history  info Display details about a package or group of packages  install Install a package or packages on your system  list List a package or groups of packages  load-transaction load a saved transaction from filename 从文件名加载保存的事务  makecache Generate the metadata cache 生成元数据缓存  provides Find what package provides the given value 查找提供给定值的包  reinstall reinstall a package  repolist Display the configured software repositories 显示配置的软件存储库  resolvedep Determine which package provides the given dependency 确定哪个包提供给定的依赖项  search Search package details for the given string 搜索给定字符串的包详细信息  shell Run an interactive yum shell 运行交互式yum shell  update Update a package or packages on your system  update-minimal Works like update, but goes to the 'newest' package match which fixes a problem that affects your system 工作方式类似于更新，但转到“最新”包匹配，它修复了一个问题  updateinfo Acts on repository update information 对存储库更新信息执行操作  upgrade Update packages taking obsoletes into account 考虑到过时的更新包  version Display a version for the machine and/or available repos. 显示机器 和/或 可用回购的版本。  Options:  -h, --help show this help message and exit  -t, --tolerant be tolerant of errors  -C, --cacheonly run entirely from system cache, don't update cache  -c [config file], --config=[config file]  config file location  -R [minutes], --randomwait=[minutes]  maximum command wait time  -d [debug level], --debuglevel=[debug level]  debugging output level  --showduplicates show duplicates, in repos, in list/search commands  -e [error level], --errorlevel=[error level]  error output level  --rpmverbosity=[debug level name]  debugging output level for rpm  -q, --quiet quiet operation  -v, --verbose verbose operation  -y, --assumeyes answer yes for all questions  --assumeno answer no for all questions  --version show Yum version and exit  --installroot=[path] set install root  --enablerepo=[repo] enable one or more repositories (wildcards allowed)  --disablerepo=[repo] disable one or more repositories (wildcards allowed)  -x [package], --exclude=[package]  exclude package(s) by name or glob  --disableexcludes=[repo]  disable exclude from main, for a repo or for  everything  --obsoletes enable obsoletes processing during updates  --noplugins disable Yum plugins  --nogpgcheck disable gpg signature checking  --disableplugin=[plugin]  disable plugins by name  --enableplugin=[plugin]  enable plugins by name  --skip-broken skip packages with depsolving problems  --color=COLOR control whether color is used  --releasever=RELEASEVER  set value of $releasever in yum config and repo files  --downloadonly don't update, just download  --downloaddir=DLDIR specifies an alternate directory to store packages  --setopt=SETOPTS set arbitrary config and repo options  Plugin Options:  --security Include security relevant packages  --bugfixes Include bugfix relevant packages  --cve=CVE Include packages needed to fix the given CVE  --bz=BZ Include packages needed to fix the given BZ  --sec-severity=SEVERITY  Include security relevant packages, of this severity  --advisory=ADVISORY  Include packages needed to fix the given advisory |

# yum常用命令

1. 列出所有可更新的软件清单命令：yum check-update
2. 更新所有软件命令：yum update
3. 仅安装指定的软件命令：yum install <package\_name>
4. 仅更新指定的软件命令：yum update <package\_name>
5. 列出所有可安裝的软件清单命令：yum list
6. 删除软件包命令：yum remove <package\_name>
7. 查找软件包 命令：yum search <keyword>
8. 清除缓存命令：

清除缓存目录下的软件包：yum clean packages

清除缓存目录下的 headers：yum clean headers

清除缓存目录下旧的 headers: yum clean oldheaders

清除缓存目录下的软件包及旧的headers：yum clean, yum clean all

# yum源管理



## 查看yum的默认配置文件

|  |
| --- |
| [root@192 tmp]# ll /etc/yum.repos.d  total 24  -rw-r--r--. 1 root root 1991 Mar 28 2017 CentOS-Base.repo  -rw-r--r--. 1 root root 647 Mar 28 2017 CentOS-Debuginfo.repo  -rw-r--r--. 1 root root 289 Mar 28 2017 CentOS-fasttrack.repo  -rw-r--r--. 1 root root 630 Mar 28 2017 CentOS-Media.repo  -rw-r--r--. 1 root root 7989 Mar 28 2017 CentOS-Vault.repo |

分别解释为：

|  |
| --- |
| CentOS-Media 这个是使用光盘挂载后调用的文件 CentOS-Base 这个是联网后基础的源，一般都用这个 CentOS-Vault  这个是最近新版本的加入的老版本的yum源配置 CentOS-Debuginfo  debug包尤其和内核相关的更新和软件安装 |

## 查看默认源

|  |
| --- |
| [root@192 tmp]# yum repolist  Loaded plugins: fastestmirror, refresh-packagekit, security  Loading mirror speeds from cached hostfile  \* base: mirrors.aliyun.com  \* extras: mirrors.aliyun.com  \* updates: mirrors.aliyun.com  repo id repo name status  base CentOS-6 - Base 5,075  extras CentOS-6 - Extras 21  updates CentOS-6 - Updates 618  repolist: 5,714 |

## 更换源

1、备份原来仓库的镜像文件

|  |
| --- |
| [root@localhost ~]#mv /etc/yum.repos.d/CentOS-Base.repo /etc/yum.repos.d/CentOS-Base.repo.backup |

2、下载163镜像文件的配置文件（和原名会一样，所以先备份一个）

Aliyun：http://mirrors.aliyun.com/repo/Centos-6.repo

|  |
| --- |
| wget -O /etc/yum.repos.d/CentOS-Base.repo http://mirrors.163.com/.help/CentOS7-Base-163.repo  或  curl -o /etc/yum.repos.d/CentOS-Base.repo http://mirrors.163.com/.help/CentOS7-Base-163.repo |

3、清理原来的yum信息

|  |
| --- |
| yum clean all |

4、生成新的yum仓库信息

|  |
| --- |
| yum makecache |

5、查看切换

|  |
| --- |
| yum repolist |