

Yum/Dnf & Rpm

yum/dnf

?????

```
# 查看仓库是否启用
dnf repolist enabled

# 查看仓库是否禁用或启用
dnf repolist all
dnf repolist -v

# 查看仓库信息
dnf repoinfo

# 安装 yum-utils
dnf install yum-utils
dnf config-manager --enable <repositoryID>

# 禁用仓库
dnf config-manager --disable <repositoryID>
```

????

```
# 查看更新
yum list updates
yum check-update
yum check-update --security

# 更新
yum update
yum update --disablerepo=epel

# 查看订阅管理器发布
subscription-manager release --list
```

```
yum clean all
yum --releasever=8.6 update

# 更新安全补丁
yum update --security
yum update-minimal --security

# 更新sudo
yum update sudo
yum --security update sudo
yum --security update-minimal sudo

# 清理缓存 (强制清理)
# NOTE: 清理缓存会删除本地缓存
yum update -y --setopt tsflags=test
yum clean packages

# 应用 RHEL 安全补丁
yum update --advisory=RHSA-2019:0997
```

??????

```
dnf list all
dnf list installed
dnf list available

# See more options
dnf help list
```

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```
dnf --showduplicates list <package-name>
dnf list <package-name>-<version>
dnf install <package-name>-<version>
```

??????

```
# To display a list of all the latest yum transactions, use:
dnf history
```

To display a list of all the latest operations for a selected package, use:

```
dnf history list <package-name>
```

To examine a particular transaction, use:

```
dnf history info <transactionID>
```

```
# dnf history list
```

```
Updating Subscription Management repositories.
```

ID	Command line		
Date and time	Action(s)	Altered	

12	update		
2022-03-18 16:57	I, U	328	EE
11	install haproxy		
2021-11-17 15:37	Install	1	
10	install chrony		
2021-11-10 17:44	Install	2	
9	install vim-enhanced		
2021-11-10 17:44	Install	4	
8	install sysstat		
2021-11-10 17:43	Install	1	
7	install yum-utils		
2021-11-10 17:43	Install	1	
6	install net-snmp-utils		
2021-11-10 17:43	Install	1	
5	install bind-utils net-snmp		
2021-11-10 17:42	Install	30	
4	install rsync mailx		
2021-11-10 17:42	Install	1	
3	install tmux		
2021-11-10 17:41	Install	1	
2	install redhat-lsb-core		
2021-11-10 17:38	Install	26	
1			
2021-11-10 17:27	Install	396	EE

Undo/Redo

```
yum history
# Or
yum history list all

# undo the install with ID 63
yum history undo 63

# redo the install with ID 63
yum history redo 63
```

??????

????????????????? yum update ??????????????????????

```
# Install yum plugin: yum-versionlock
# The /etc/yum/pluginconf.d/versionlock.list will be created on the system.
# For RHEL 7.9
yum install yum-plugin-versionlock

# For RHEL 8 and 9
yum install python3-dnf-plugin-versionlock

# To install or lock the version of the gcc group of packages, run
yum versionlock gcc-*

# To display the list of locked packages, use:
yum versionlock list

# To discard the list of locked packages, use:
yum versionlock clear

# To discard the lock on a specific package, use:
yum versionlock delete <package_name>
```

?????? (Release)

```
# To determine which releases are available:
subscription-manager release --list

# Temporary Setting
```

```
yum clean all
yum --releasever=8.6 update

# Permanent Setting
subscription-manager release --set=8.6
yum clean all
subscription-manager repos --list-enabled

# To determine which releases system is set to:
subscription-manager release --show

# To unset a specific release:
subscription-manager release --unset
yum clean all
subscription-manager repos
```

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<http://vault.centos.org/>

????????????????

```
dnf clean all
```

????

???? libstdc++.so.6

```
dnf whatprovides "*/libstdc++.so.6"
dnf provides "*/libstdc++.so.6"
```

????

```
dnf search mypackage
dnf search --all mypackage
```

??????

```
dnf deplist <package-name>
```

```
repoquery --requires <package-name>
```

?? RPM ??

```
yum -y install yum-utils.noarch
```

```
yumdownloader <package-name>
```

```
yumdownloader --destdir /path/to/download <package-name>
```

```
# Includ all dependencies
```

```
yumdownloader --resolve --alldeps <package-name>
```

```
# Extract downloaded RPM
```

```
rpm2cpio dekiwiki-10.0.1-3.1.noarch.rpm | cpio -idmv
```

```
yum -y install --downloadonly --downloadaddir=/tmp/packages NetworkManager
```

???????????

```
dnf --enablerepo=elrepo-kernel install kernel-ml kernel-ml-devel
```

???? ISO?????????

```
# vi /etc/yum.repo.d/CentOS-Media.repo
```

```
[c6-local]
```

```
name=CentOS-$releasever - Media
```

```
baseurl=file:///mnt/disc/
```

```
gpgcheck=0
```

```
enabled=0
```

```
NOTE: enabled=0 1 DVD /mnt/disc
```

```
# yum --disablerepo="*" --enablerepo=c6-local list available
```

```
# yum --disablerepo="*" --enablerepo=c6-local install nfs-utils
```

?????? RPM ??

```
dnf --nogpgcheck install htop-1.0.2-1.el5.rf.x86_64.rpm
```

??????????

```
yum list installed
yum list installed |tail -n +3|cut -d' ' -f1 > installed_packages.lst
# 
rpm -qa > installed_packages.lst

yum -y install $(cat installed_packages.lst)
```

COPR ???

```
# Install the tool
sudo dnf install dnf-plugins-core

# Search the repository
dnf copr search [keyword]

# List the repository
dnf copr list
dnf copr list --enabled
dnf copr list --disabled

# Enable the repository
sudo dnf copr enable [user]/[project]

# Disable the repository
sudo dnf copr disable [user]/[project]

# Remove the repository
sudo dnf copr remove [user]/[project]
```

EPEL ???

- [Extra Packages for Enterprise Linux \(EPEL\) :: Fedora Docs \(fedoraproject.org\)](https://docs.fedoraproject.org/en-US/epel/)

```
# RHEL 8
sudo subscription-manager repos --enable codeready-builder-for-rhel-8-$(arch)-rpms
sudo yum -y install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
```

ELRepo ???

[ELRepo](http://elrepo.org) - The Community Enterprise Linux Repository

```
rpm --import http://elrepo.org/RPM-GPG-KEY-elrepo.org

# for RHEL-5, CENTOS-5
rpm -Uvh http://elrepo.org/elrepo-release-5-2.el5.elrepo.noarch.rpm

# for RHEL-6, CENTOS-6
rpm -Uvh http://elrepo.org/elrepo-release-6-3.el6.elrepo.noarch.rpm
```

RPMforge/RepoForge ???

RPMforge ?? Dag ?????????????????? CentOS ????? 5000 ?????? wine?vlc?mplayer?xmms-mp3 ?????????????????? Red Hat ? CentOS ?????????????????????????

<http://repoforge.org/use/>

?????????

?? GNOME
??

```
# 000000000000
yum grouplist
# 00 GNOME 000000
yum groupinstall "GNOME Desktop Environment"
# 000000
yum groupremove "Office Suite and Productivity" "Dial-up Networking Support"

# 000000000000
yum grouplist hidden
```

Yum ??

?? /etc/yum.conf

```
# Set Proxy
# proxy=http://<username>:<password>@<this.is.proxy.ip>:<port>/
proxy=http://windowsad\username:password@proxy.server:port/

# Set Timeout
```

```
timeout=600
```

?????? RPM

```
yum localinstall my.rpm
```

?? YUM ?????? (with ISO)

- [How to create a local mirror of the latest update for Red Hat Enterprise Linux 5, 6, 7, 8 and 9 without using Satellite server?](#)

???? createrepo

CetOS 5:

```
createrepo /source/path/reas5
createrepo -g /source/path/reas5/repodata/comps.xml
```

CetOS 6/7:

```
# ?????
createrepo /yum-repo-packages/centos_6.4_x86_64

# ?????
# CentOS 6.4
createrepo -g /yum-repo-packages/centos_6.4_x86_64/repodata/2727...cab6f72-c6-x86_64-
comps.xml /yum-repo-packages/centos_6.4_x86_64

# RedHat 7.9
createrepo -g /mnt/yum-
repo/redhat_7.9_x86_64/repodata/3df90817a193baef023d53222cc4ce8f4d15209e593bee361bf72016022008
fb-comps-Server.x86_64.xml /mnt/yum-repo/redhat_7.9_x86_64
```

RHEL 8:

```
# for RHEL 8 only
yum install createrepo_c

cp -r /mnt/iso/* /mnt/yum-repo/redhat_8.3_x86_64
createrepo /mnt/yum-repo/redhat_8.3_x86_64
```

rhel-local.repo:

```
[LocalRepo_BaseOS]
name=LocalRepo_BaseOS
metadata_expire=-1
enabled=1
gpgcheck=1
baseurl=ftp://10.1.115/LINUX_REPO/redhat_8.3_x86_64/BaseOS/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release

[LocalRepo_AppStream]
name=LocalRepo_AppStream
metadata_expire=-1
enabled=1
gpgcheck=1
baseurl=ftp://10.10.1.115/LINUX_REPO/redhat_8.3_x86_64/AppStream/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
```

RPM

????

```
rpm -ivh vim-enhanced-*.x86_64.rpm

# Dry-run only without any changes
rpm -ivh --test vim-enhanced-*.x86_64.rpm
```

????

```
# 查看包信息
rpm -qi <package-name>

# 查看包是否支持 32 或 64 bit
rpm -qa --qf "%{n}-%{v}-%{r}-%{arch}\n" | grep -i <package-name>

# 查看包的依赖关系
rpm -qpi your.rpm
less your.rpm

# 查看包的元数据
```

```
rpm -q --requires <package-name>

# RPM 依赖
rpm -qp --requires your.rpm

# RPM 文件列表
rpm -qlp your.rpm

# RPM 文件安装
rpm -qf /usr/bin/ksh

# RPM 公钥
rpm -q gpg-pubkey | sort | uniq -c | sort -nr
```

??????????????

```
# list the dependencies required for the git rpm
# -q: query the RPM package
# -p: specify the package file
# -R: list the dependencies required for the package

rpm -qpR git-1.8.3.1-20.el7.x86_64.rpm

# the command will output a list of dependencies required for Git. For example:
/bin/bash
/bin/sh
/lib/ld-linux-x86-64.so.2
/lib64/ld-linux-x86-64.so.2
libc.so.6(GLIBC_2.14) (64bit)
libcurl.so.4() (64bit)
libexpat.so.1() (64bit)
libssl.so.10() (64bit)
libz.so.1() (64bit)
perl(:MODULE_COMPAT_5.16.3)
perl(Error)
perl(Exporter)
perl(Fcntl)
... (more dependencies)

# get the RPM package names for these dependencies
```

```
rpm -q --whatprovides "libcurl.so.4()(64bit)"
```

????????????????????????????

```
rpm -qa --queryformat '%{NAME}-%{VERSION}-%{RELEASE}-%{ARCH}\n' | sort &> /tmp/rpm-qa.prod.output.txt
```

???????? Changelog

```
rpm -q --changelog sudo | grep -i cve-2021-3156  
rpm -q --changelog -p sudo-1.8.6p3-29.0.2.el6_10.3.x86_64.rpm | grep -F CVE-2021
```

Rebuild source-rpm

```
yum install rpm-build  
rpmbuild --rebuild something.src.rpm
```

GPG

- [RPM and GPG: How to verify Linux packages before installing them](#)

```
# List all GPG keys  
rpm -q gpg-pubkey | sort | uniq -c  
  
# Get the information of a key  
rpm -qi gpg-pubkey-2f86d6a1-5cf7cefb
```

?? cache

```
yum clean all  
rm /var/cache/yum/* -rf
```

??????????

?? minimal ISO ??????????????????????

RedHat 6

```
yum install setuptool system-config-network* system-config-securitylevel-tui system-config-keyboard \  
    lvm2 lsof nfs-utils sysstat net-snmp net-snmp-utils vim-enhanced rsync mailx bind-utils vim-enhanced \  
    net-tools
```

RedHat 7/8

```
yum install chrony tmux vim-enhanced rsync mailx bind-utils net-snmp net-snmp-utils \  
    yum-utils sysstat nfs-utils redhat-lsb-core lsof net-tools  
  
# for VMware guest OS  
yum install open-vm-tools
```

??????

RHEL 8 & 9

```
yum group install GNOME base-x Fonts  
  
#or  
  
yum groupinstall "Server with GUI"
```

RHEL 7

```
yum groupinstall gnome-desktop x11 fonts  
  
# Or  
  
yum groupinstall "Server with GUI"
```

RHEL 6

```
# Recommended  
yum groupinstall Desktop "General Purpose Desktop" "Desktop Platform" "X Window System"  
"Internet Browser" "Graphical Administration Tools" Fonts  
  
# Minimal
```



```
yum check-update --advisory=RHSA-2024:1249
```

```
yum update --advisory=RHSA-2024:1249
```

FAQ

About EPEL Repository

Important Notice

- The following information has been provided by Red Hat, but is outside the scope of the posted Service Level Agreements and support procedures.
- Installing unsupported packages does not necessarily make a system unsupported by Red Hat Global Support Services
 - However, Red Hat Global Support Services will be unable to support or debug problems with packages not shipped in standard RHEL channels.
- Installing packages from EPEL is done at the user's own risk.
- The EPEL repository is a community supported repository hosted by the Fedora Community project.
- The EPEL repository is not a part of Red Hat Enterprise Linux and does not fall under Red Hat's Production Support Scope of Coverage. The repository is considered an optional repository and is not tested by Red Hat quality engineers.

(<https://access.redhat.com/solutions/3358>)

What is the difference between yum update vs yum update-minimal

<https://access.redhat.com/solutions/3620411>

How to Upgrade RHEL 8 to RHEL 9

- [How to Upgrade from RHEL 8 to RHEL 9 Release](#)

RHEL 4 ?? yum ??

RHEL 4 ????? yum ??????????????

???? zip ?????? *.rpm?

[Yum_rhel4.zip](#)

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