

Yum/Dnf & Rpm

yum/dnf

?????

```
# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
dnf repolist enabled

# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] disabled [ ] enabled
dnf repolist all
dnf repolist -v

# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
dnf repoinfo

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

# [ ] [ ] [ ] [ ] [ ] [ ] [ ]
dnf config-manager --disable <repositoryID>
```

????

```
# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
yum list updates
yum check-update
yum check-update --security

# [ ] [ ] [ ] [ ] [ ] [ ] [ ]
yum update
yum update --disablerepo=epel

# [ ] [ ] [ ] [ ] [ ] [ ] [ ]
subscription-manager release --list
```

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

# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
yum update --security
yum update-minimal --security

# [ ] [ ] [ ] [ ]
yum update sudo
yum --security update sudo
yum --security update-minimal sudo

# [ ] [ ] [ ] [ ] ([ ] [ ] [ ] [ ] [ ] [ ])
# NOTE: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] cache [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
yum update -y --setopt tsflags=test
yum clean packages

# [ ] [ ] RHTSA-XXX [ ] [ ] [ ] [ ]
yum update --advisory=RHTSA-2019:0997
```

??????

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

??/????????

```
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

??????

???????????????? 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
```

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

<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>
```

```
# Include 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 http-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)
```

?? EPEL ???

- [Extra Packages for Enterprise Linux \(EPEL\) :: Fedora Docs \(fedoraproject.org\)](http://fedoraproject.org/docs/ELRepo/)

```
rpm -ivh http://mirror01.idc.hinet.net/EPEL/5/i386/epel-release-5-4.noarch.rpm
rpm -ivh http://mirror01.idc.hinet.net/EPEL/6/i386/epel-release-6-8.noarch.rpm
```

TIPs:

“ ???: Error: Cannot retrieve metalink for repository: epel. Please verify its path and try again
?: sed -i "s/mirrorlist=https/mirrorlist=http/" /etc/yum.repos.d/epel.repo

?? 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
??

```
# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
yum grouplist

# [ ] [ ] GNOME [ ] [ ] [ ] [ ]
yum groupinstall "GNOME Desktop Environment"

# [ ] [ ] [ ] [ ]
yum groupremove "Office Suite and Productivity" "Dial-up Networking Support"

# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
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/3df90817a193baef023d53222cc4ce8f4d15209e593bee361bf72016022008fb-  
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
```

????

```
# 检查包信息
rpm -qi <package-name>

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

# 检查包的依赖
rpm -qpi your.rpm
less your.rpm

# 检查包的依赖
rpm -q --requires <package-name>

# 检查包的依赖
rpm -qp --requires your.rpm
```

```
# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] RPM [ ] [ ] [ ] [ ] [ ] [ ]
```

```
rpm -qlp your.rpm
```

```
# [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
```

```
rpm -qf /usr/bin/ksh
```

```
# [ ] [ ] RPM Public Key
```

```
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 \\\nlvm2 lsof nfs-utils sysstat net-snmp net-snmp-utils vim-enhanced rsync mailx bind-utils vim-enhanced \\\nnet-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 groupinstall Desktop "X Window System" Fonts
```

RHEL 5

```
# Recommended
```

```
yum groupinstall gnome-desktop base-x graphical-internet admin-tools
```

```
# Minimal
```

```
yum groupinstall gnome-desktop base-x
```

CVE ????

- [RedHat CVE Checker](#)
- [RedHat CVE Database](#)

????????? CVE ??? (?????????)

```
# [REDACTED] CVE [REDACTED]
yum updateinfo info --cve CVE-2023-48795

# With RHSA
yum updateinfo info --advisory RHSA-2023:7549
```

????????????????????? CVE ??

```
# rpm -q --changelog [package-name] | grep [CVE-NUMBER]
rpm -q --changelog openssl | grep CVE-2021-3450
```

??????????????? (RHSA ????)

```
# [REDACTED]
yum updateinfo list updates security

# [REDACTED]
yum updateinfo list security --installed

# [REDACTED] RHSA [REDACTED]
yum updateinfo info <RHSA ID>
```

????? RHSA-ID

```
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 unsupportable 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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