

## **, YUM (YELLOW DOG UPDATER MODIFIED ) COMMAND**

YUM is the primary package management tool for installing , updating, removing , and managing software packages in RED HAT enterprise linux . YUM performs dependency resolution when installing , updating and removing software packages . YUM can manage packages from installed repositories in the system . YUM is used in RED HAT enterprise linux versions five and later.

```
himanshu@foreman:~$ sudo apt update
Hit:1 http://archive.ubuntu.com/ubuntu
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
himanshu@foreman:~$
```

```
himanshu@foreman:~$ sudo apt-get install yum
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

## . RPM (RED HAT PACKAGE MANAGER ) COMMAND

RPM is a package format used by RED HAT based derivatives like CENTOS , RHEL , or FEDORA . The name comes from the RPM package manager (RPM) , a free and open -source package management system for installing , uninstalling and managing software packages in linux.

```
himanshu@foreman:~$ sudo apt install vnc-viewer
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
himanshu@foreman:~$ sudo add-apt-repository universe
Adding component(s) 'universe' to all repositories.
Press [ENTER] to continue or Ctrl-c to cancel.
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease
Reading package lists... Done
himanshu@foreman:~$
```

```
Reading package lists... Done
himanshu@foreman:~$ sudo apt-get update
Hit:1 http://archive.ubuntu.com/ubuntu jammy InRelease
Reading package lists... Done
himanshu@foreman:~$
```

```
Reading package lists... Done
himanshu@foreman:~$ sudo apt-get install alien
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2 libllvm13 linux-image-5.15.0-43-generic
  linux-modules-5.15.0-43-generic linux-modules-extra-5.15.0-43-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  autoconf automake autopoint autotools-dev debhelper debugedit dh-autoreconf
  dh-strip-nondeterminism dwz gettext intltool-debian libarchive-cpio-perl
  libarchive-zip-perl libdebhelper-perl libfile-stripnondeterminism-perl libfsverity0
  libltdl-dev libmail-sendmail-perl librpm9 librpmbuild9 librpmio9 librpsign9
  libsub-override-perl libsys-hostname-long-perl libtool m4 po-debconf rpm rpm-common
  rpm2cpio
Suggested packages:
  lintian autoconf-archive gnu-stardocs autoconf-doc dh-make gettext-doc libasprintf-dev
  libgettextpo-dev libtool-doc gfortran | fortran95-compiler gcj-jdk m4-doc libmail-box-perl
  elfutils rpmlint rpm-i18n
The following NEW packages will be installed:
  alien autoconf automake autopoint autotools-dev debhelper debugedit dh-autoreconf
  dh-strip-nondeterminism dwz gettext intltool-debian libarchive-cpio-perl
  libarchive-zip-perl libdebhelper-perl libfile-stripnondeterminism-perl libfsverity0
  libltdl-dev libmail-sendmail-perl librpm9 librpmbuild9 librpmio9 librpsign9
  libsub-override-perl libsys-hostname-long-perl libtool m4 po-debconf rpm rpm-common
  rpm2cpio
0 upgraded, 31 newly installed, 0 to remove and 0 not upgraded.
4 not fully installed or removed.
Need to get 4,975 kB of archives.
After this operation, 15.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 autotools-dev all 20220109.1 [44.9 kB]
Ign:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 autotools-dev all 20220109.1
Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 m4 amd64 1.4.18-5ubuntu2 [199 kB]
Ign:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 m4 amd64 1.4.18-5ubuntu2
0% [Waiting for headers]
0% [Waiting for headers]
0% [Waiting for headers]
Ign:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 autoconf all 2.71-2
0% [Connecting to archive.ubuntu.com (2001:67c:1562::18)]
```

```

Err:18 http://archive.ubuntu.com/ubuntu jammy/main amd64 debhelper all 13.6ubuntu1
Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
Err:26 http://archive.ubuntu.com/ubuntu jammy/universe amd64 rpm amd64 4.17.0dfsg1-4build1
Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
Ign:27 http://archive.ubuntu.com/ubuntu jammy/universe amd64 alien all 8.95.5
Ign:28 http://archive.ubuntu.com/ubuntu jammy/main amd64 libarchive-cpio-perl all 0.10-1.1
Err:29 http://archive.ubuntu.com/ubuntu jammy/main amd64 libltdl-dev amd64 2.4.6-15build2
Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
Ign:30 http://archive.ubuntu.com/ubuntu jammy/main amd64 libsys-hostname-long-perl all 1.5-2
Err:31 http://archive.ubuntu.com/ubuntu jammy/main amd64 libmail-sendmail-perl all 0.80-1.1
Err:27 http://archive.ubuntu.com/ubuntu jammy/universe amd64 alien all 8.95.5
Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
Err:28 http://archive.ubuntu.com/ubuntu jammy/main amd64 libarchive-cpio-perl all 0.10-1.1
Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
Err:30 http://archive.ubuntu.com/ubuntu jammy/main amd64 libsys-hostname-long-perl all 1.5-2
Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
Err:31 http://archive.ubuntu.com/ubuntu jammy/main amd64 libmail-sendmail-perl all 0.80-1.1
Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/a/autotools-dev/autotools-dev_20220109-1_all.deb Connection timed out [IP: 2001:67c:1562::18 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/n/m4/m4_1.4.18-5ubuntu2_amd64.deb Connection timed out [IP: 2620:2d:4000::1:16 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/a/autoconf/autoconf_2.71-2_all.deb Connection failed [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/a/autonake-1.16/autonake_1.16.5-1.3_all.deb Could not connect to archive.ubuntu.com:80 (185.125.190.36), connection timed out Could not conn
ect to archive.ubuntu.com:80 (2620:2d:4000::1:19), connection timed out Could not connect to archive.ubuntu.com:80 (91.189.91.39), connection timed out Could not connect to archive.ubuntu.com:80 (2620:2d
:4000::1:16), connection timed out Could not connect to archive.ubuntu.com:80 (185.125.190.39), connection timed out Could not connect to archive.ubuntu.com:80 (2001:67c:1562::18), connection timed out [
IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/g/gettext/autopoint_0.21-4ubuntu4_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/d/debhelper/libdebhelper-perl_13.6ubuntu1_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/l/libtool/libtool_2.4.6-15build2_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/d/dh-autoreconf/dh-autoreconf_20_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/l/liba/libarchive-zip-perl/libarchive-zip-perl_1.68-1_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/l/libsub-overrider-perl/libsub-overrider-perl_0.09-2_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/s/strip-nondeterminism/libfile-stripnondeterminism-perl_1.13.0-1_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 8
0]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/s/strip-nondeterminism/dh-strip-nondeterminism_1.13.0-1_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/d/debugedit/debugedit_5.0-4build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/d/dwz/dwz_0.14-1build2_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/g/gettext/gettext_0.21-4ubuntu4_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/t/intltool-debian/intltool-debian_0.35.0%2b20060710.5_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/p/po-debconf/po-debconf_1.0.21%2bmmu1_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/d/debhelper/debhelper_13.6ubuntu1_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/r/rpm/librpmtop_4.17.0%2bdfsg1-4build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/r/rpm/librpm9_4.17.0%2bdfsg1-4build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/r/rpm/librpmbuild9_4.17.0%2bdfsg1-4build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/f/fswrity-utills/libfswrity0_1.4-1%7teexp1build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/r/rpm/librpm9sign9_4.17.0%2bdfsg1-4build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/r/rpm/rpm-common_4.17.0%2bdfsg1-4build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/r/rpm/rpncpio_4.17.0%2bdfsg1-4build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/r/rpm/rpm_4.17.0%2bdfsg1-4build1_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/universe/a/alienv/alienv_9.95.5_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/l/liba/libarchive-cpio-perl/libarchive-cpio-perl_0.10-1.1_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/l/libltdl-dev_2.4.6-15build2_amd64.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/l/libsys-hostname-long-perl/libsys-hostname-long-perl_1.5-2_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/l/libmail-sendmail-perl/libmail-sendmail-perl_0.80-1.1_all.deb Unable to connect to archive.ubuntu.com:http: [IP: 185.125.190.39 80]
E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
himanshu@foreman:~$

```

himanshu@foreman:~\$ sudo alien packagename.rpm

sudo: alien: command not found

himanshu@foreman:~\$ sudo alien nginx

sudo: alien: command not found

himanshu@foreman:~\$ sudo dpkg -i packagename.deb

dpkg: error: need an action option

Type dpkg --help for help about installing and deinstalling packages [\*];

Use 'apt' or 'aptitude' for user-friendly package management;

Type dpkg -Dhelp for a list of dpkg debug flag values;

Type dpkg --force-help for a list of forcing options;

Type dpkg-deb --help for help about manipulating \*.deb files;

Options marked [\*] produce a lot of output - pipe it through 'less' or 'more'.

# . DNF (DENDIFIED YUM ) COMMAND

The DNF command can be used to download the packages from repositories such as those that are available on the oracle linux yum server , but you can also set up your own repositories on systems that do not have internet access .

```
himanshu@foreman:~$ sudo apt install dnf
[sudo] password for himanshu:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Some packages could not be installed. This may mean that you have
requested an impossible situation or if you are using the unstable
distribution that some required packages have not yet been created
or been moved out of Incoming.
The following information may help to resolve the situation:

The following packages have unmet dependencies:
dnf : Depends: sqlite3
python3-distutils : Depends: python3-lib2to3 (= 3.10.4-0ubuntu1) but 3.10.6-1~22.04 is to be installed
E: Unable to correct problems, you have held broken packages.
himanshu@foreman:~$
```

himanshu@foreman: ~\$

himanshu@foreman:~\$ sudo apt install dnf

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

Some packages could not be installed. This may mean that you have requested an impossible situation or if you are using the unstable distribution that some required packages have not yet been created or been moved out of Incoming.

The following information may help to resolve the situation:

The following packages have unmet dependencies:

dnf : Depends: sqlite3

python3-distutils : Depends: python3-lib2to3 (= 3.10.4-0ubuntu1) but 3.10.6-1~22.04 is to be installed

**E:** Unable to correct problems, you have held broken packages.

himanshu@foreman:~\$