

APT

????

dpkg

```
# [root@localhost ~]#
```

```
dpkg -l
```

```
# [root@localhost ~]#
```

```
dpkg -L <package name>
```

```
# [root@localhost ~]#
```

```
dpkg -S <path to command>
```

```
# [root@localhost ~]#
```

```
dpkg -s <package name>
```

apt-get

```
# [root@localhost ~]#
```

```
apt-get update
```

```
# [root@localhost ~]#
```

```
apt-get install <package-name>
```

```
apt-get build-dep <package-name> ;[root@localhost ~]#
```

```
apt-get -s install <package-name> ; [root@localhost ~]#
```

```
# [root@localhost ~]#
```

```
apt-get autoremove <package-name>
```

```
# [root@localhost ~]#
```

```
apt-get purge <package-name>
```

```
# [root@localhost ~]#
```

```
apt-get update
dpkg -i <package-name>.deb
NOTE: [REDACTED]
apt-get -f install

# [REDACTED] Changelog
apt-get changelog <package-name>
```

apt-cache

```
apt-cache search <package-name>
apt-cache show <package-name>
apt-cache showpkg <package-name>

# [REDACTED]
apt-cache depends <package-name>
```

apt-file

```
sudo apt install apt-file
apt-file search <file-name>
```

apt-offline

- [How To Fully Update And Upgrade Offline Debian-based Systems Using Apt-offline](#)

apt-key

```
# [REDACTED] GPG Key
apt-key list
apt-key --keyring /etc/apt/trusted.gpg list

# Delete a Key
sudo apt-key del 4C70D8B5 #specify last 8 characters
```

????

```
# [REDACTED]/[REDACTED]
apt-mark hold glusterfs*
```

?? proxy ????

????

```
export http_proxy=http://username:password@proxy.server.net:port/
; [] Windows AD [], []
export http_proxy=http://addomain\\username:password@proxy.server.net:port/
```

?????? /etc/apt/apt.conf???????

```
Acquire::http::proxy "http://192.168.1.1:3128/";
Acquire::https::proxy "https://192.168.1.1:3128/";
Acquire::ftp::proxy "ftp://192.168.1.1:3128/";
Acquire::socks::proxy "socks://192.168.1.1:3128/";
```

???????

```
## Manually adding APT repository
# Import the GPG key
wget -qO- https://cloud.r-project.org/bin/linux/ubuntu/marutter_pubkey.asc | sudo tee -a
/etc/apt/trusted.gpg.d/cran_ubuntu_key.asc
# Add the repository
echo "deb https://cloud.r-project.org/bin/linux/ubuntu focal-cran40/" | sudo tee /etc/apt/sources.list.d/r-
packages.list

## Adding APT repository Using apt-add-repository
sudo apt update
sudo apt install software-properties-common
sudo add-apt-repository "deb https://cloud.r-project.org/bin/linux/ubuntu $(lsb_release -cs)-cran40/"
wget -qO- https://cloud.r-project.org/bin/linux/ubuntu/marutter_pubkey.asc | sudo tee -a
/etc/apt/trusted.gpg.d/cran_ubuntu_key.asc
```

???????

```
# Debian
deb http://ftp.isu.edu.tw/pub/Linux/Debian/debian/ lenny main contrib non-free
deb-src http://ftp.isu.edu.tw/pub/Linux/Debian/debian/ lenny main contrib non-free

# Ubuntu
deb http://tw.archive.ubuntu.com/ubuntu/ saucy main restricted
```

```
deb-src http://tw.archive.ubuntu.com/ubuntu/ saucy main restricted
```

?? Repository ?????????????????????old-releases.ubuntu.com

```
deb http://old-releases.ubuntu.com/ubuntu/ karmic main restricted
```

??????

```
# Search for the older version of the Firefox
```

```
apt-cache showpkg firefox
```

```
# Downgrade to the specified version
```

```
apt-get install firefox=59.0.2+build1-0ubuntu1
```

Packages size installed

```
sudo apt update
```

```
sudo apt install debian-goodies
```

```
dpigs
```

```
dpigs -n 20
```

```
dpigs -H -n 20
```

CVE ??

??????? CVE-XXXX-XXXX ??

With Pro Client

```
# With Pro Cleint
```

```
# Install Pro Client
```

```
sudo apt install ubnutu-advantage-tools
```

```
# Fix for CVE
```

```
pro fix CVE-2023-32629
```

With debsecan

“ NOTE: ???????? Debian ?????

```
# Install
apt install debsecan

# Check
debsecan | grep -i openvpn
debsecan | grep -i CVE-2017-1000364
```

FAQ

- [How To Handle apt-key and add-apt-repository Deprecation Using gpg to Add External Repositories on Ubuntu 22.04](#)

Q: The following signatures were invalid: KEYEXPIRED 1473479811

Solution:

```
$> apt-key list | grep expired

pub 2048R/ACCAF35C 2012-09-10 [expired: 2016-09-10]

$> sudo apt-key adv --recv-keys --keyserver keys.gnupg.net ACCAF35C

# [ ] GPG Key
$> sudo apt-key del ACCAF35C
```

Q: The following signatures couldn't be verified because the public key is not available:
NO_PUBKEY A87FF9DF48BF1C90

Solution:

```
# Case 1: Download from the Keyserver
gpg --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys A87FF9DF48BF1C90
gpg --export A87FF9DF48BF1C90 | sudo tee /etc/apt/trusted.gpg.d/spotify.gpg

# Case 2: Download from the specified URL
curl -fsSL https://update.qortal.online/qortal.gpg | sudo gpg --dearmor -o /etc/apt/trusted.gpg.d/qortal.gpg
```

```
# For old Ubuntu distro only
```

```
sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys A87FF9DF48BF1C90
```

Q: The Key of OpenSUSE is expired

“ GPG error:

```
http://download.opensuse.org/repositories/graphics:/darktable:/stable/xUbuntu_18.04 InRelease: ??????? EXPKEYSIG 040524A84C70D8B5
```

```
graphics:darktable OBS Project <graphics:darktable@build.opensuse.org>  
W: ?????
```

```
http://download.opensuse.org/repositories/graphics:/darktable:/stable/xUbuntu_18.04/InRelease????????? EXPKEYSIG 040524A84C70D8B5
```

```
graphics:darktable OBS Project <graphics:darktable@build.opensuse.org>
```

Solution:

```
$> apt-key list | grep -A 1 expired
```

```
$> apt-key list | grep -A 1 []
```

Warning: apt-key output should not be parsed (stdout is not a terminal)

```
pub rsa4096 2018-01-05 [SC] [{}: 2020-01-25]
```

```
68AE AE71 F9FA 1587 03C1 CBBC 8D04 CE49 EFB2 0B23
```

```
uid [{} ] Vivaldi Package Composer KEY04 <packager@vivaldi.com>
```

```
--
```

```
pub rsa2048 2017-12-26 [SC] [{}: 2020-03-05]
```

```
3247 B751 9EDB EAB4 22E9 00A3 0405 24A8 4C70 D8B5
```

```
uid [{} ] graphics:darktable OBS Project <graphics:darktable@build.opensuse.org>
```

```
$> sudo apt-key del 4C70D8B5 #specify last 8 characters
```

```
$> wget -nv http://download.opensuse.org/repositories/graphics:/darktable:/stable/xUbuntu_18.04/Release.key -  
O Release.key
```

```
$> apt-key --keyring Release.key finger
```

```
$> sudo apt-key add - < Release.key
```

Q:

W: An error occurred during the signature verification. The repository is not updated and the previous index files will be used. GPG error:
https://packages.riot.im/debian default InRelease: ??????? EXPKEYSIG
C2850B265AC085BD riot.im packages <packages@riot.im>

Solution:

```
sudo rm /usr/share/keyrings/riot-im-archive-keyring.gpg
sudo wget -O /usr/share/keyrings/riot-im-archive-keyring.gpg https://packages.riot.im/debian/riot-im-archive-keyring.gpg
sudo apt update
```

Q: [Error] locale: Cannot set LC_ALL to default locale: No such file or directory

Solution:

```
#> locale
locale: Cannot set LC_ALL to default locale: No such file or directory

#> export LC_ALL="en_US.UTF-8"

#> vi ~/.profile

export LC_ALL="en_US.UTF-8"
```

“ ??????-bash: warning: setlocale: LC_ALL: cannot change locale
(zh_TW.UTF-8)
???????? locale -a