

APT

????

dpkg

```
# 列出所有已安装的软件包
dpkg -l

# 列出指定软件包的详细信息
dpkg -L <package name>

# 显示指定命令的完整路径
dpkg -S <path to command>

# 显示指定软件包的来源
dpkg -s <package name>
```

apt-get

```
# 更新软件包列表
apt-get update

# 安装软件包
apt-get install <package-name>
apt-get build-dep <package-name> ; 安装构建依赖
apt-get -s install <package-name> ; 显示依赖

# 列出可升级的软件包
apt list --upgradable

# 仅升级指定软件包
apt install --only-upgrade <package-name>

# 列出所有可升级的软件包
```

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

```
# 删除包
```

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

```
# 更新包
```

```
apt-get update
```

```
dpkg -i <package-name>.deb
```

```
NOTE: 强制安装
```

```
apt-get -f install
```

```
# 查看变更日志
```

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

apt-cache

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

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

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

```
# 查看依赖
```

```
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

```
# 添加 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
```

????

```
# □□□□□□/□□  
apt-mark hold glusterfs*
```

?? proxy ????

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```
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/";
```

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```
## Manually adding APT repository  
# Import the GPG key  
wget -q0- 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 -q0- https://cloud.r-project.org/bin/linux/ubuntu/marutter_pubkey.asc | sudo tee -a  
/etc/apt/trusted.gpg.d/cran_ubuntu_key.asc
```

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```
# 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 Client
# 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
curl -fsSL https://free.nchc.org.tw/odfrepo/modaodf.key | sudo gpg --dearmor -o
/etc/apt/keyrings/modaodf.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
-y -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>
```

???????

```
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

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