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Menu

# Why and how I can enable Tor Package Repository in Debian?



## Topics



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## Why and how I can enable Tor Package Repository in Debian?

The Tor Project maintains its own [Debian package repository](#). Since Debian provides the LTS version of Tor, this might not always give you the latest stable Tor version. Therefore, it's recommended to install `tor` from our repository.

Here's how you can enable Tor Package Repository in Debian based distributions:

**Note:** The symbol `#` refers to running the code as root. This means you should have access to a user account with system administration privileges, i.e. your user should be in the sudo group.

Prerequisite: Verify the CPU architecture

The package repository offers `amd64` , `arm64` , and `i386` binaries. Verify your operating system is capable of running the binary by inspecting the output of the following command:

```
# dpkg --print-architecture
```

It should output either `amd64` , `arm64` , or `i386` . The repository does not support other CPU architectures.

**Note:** The package repository does not offer 32-bit ARM architecture ( `armhf` ) images (yet). You should either install the version Debian offers (make sure to check out Debian backports, too, as that one has often a more up-to-date Tor package), or [build Tor from source](#).

## 1. Install `apt-transport-https`

To enable all package managers using the libapt-pkg library to access metadata and packages available in sources accessible over https (Hypertext Transfer Protocol Secure).

```
# apt install apt-transport-https
```

## 2. Create a new file in `/etc/apt/sources.list.d/` named `tor.list` . Add the following entries:

```
deb [signed-by=/usr/share/keyrings/tor-archive-keyring.gpg]  
https://deb.torproject.org/torproject.org <DISTRIBUTION> main  
deb-src [signed-by=/usr/share/keyrings/tor-archive-keyring.gpg]  
https://deb.torproject.org/torproject.org <DISTRIBUTION> main
```

If you want to try experimental packages, add these **in addition** to the lines from above:

```
deb [signed-by=/usr/share/keyrings/tor-archive-keyring.gpg]  
https://deb.torproject.org/torproject.org tor-experimental-<DISTRIBUTION> main  
deb-src [signed-by=/usr/share/keyrings/tor-archive-keyring.gpg]  
https://deb.torproject.org/torproject.org tor-experimental-<DISTRIBUTION> main
```

Or nightly builds:

```
deb [signed-by=/usr/share/keyrings/tor-archive-keyring.gpg]
https://deb.torproject.org/torproject.org tor-nightly-main-<DISTRIBUTION> main
deb-src [signed-by=/usr/share/keyrings/tor-archive-keyring.gpg]
https://deb.torproject.org/torproject.org tor-nightly-main-<DISTRIBUTION> main
```

Replace **<DISTRIBUTION>** with your Operating System codename. Run **lsb\_release -c** or **cat /etc/debian\_version** to check the Operating System version.

**Note:** Ubuntu Focal dropped support for 32-bit, so instead use:

```
deb [arch=<ARCHITECTURE> signed-by=/usr/share/keyrings/tor-archive-
keyring.gpg] https://deb.torproject.org/torproject.org focal main
deb-src [arch=<ARCHITECTURE> signed-by=/usr/share/keyrings/tor-archive-
keyring.gpg] https://deb.torproject.org/torproject.org focal main
```

Replace **<ARCHITECTURE>** with your system architecture (you found it earlier by writing **dpkg --print-architecture**).

Warning symptom, when running **sudo apt update**:

```
Skipping acquire of configured file 'main/binary-i386/Packages' as
repository 'http://deb.torproject.org/torproject.org focal InRelease' doesn't
support architecture 'i386'
```

3. Then add the gpg key used to sign the packages by running the following command at your command prompt:

```
# wget -q0-
https://deb.torproject.org/torproject.org/A3C4F0F979CAA22CDBA8F512EE8CBC9E886DD
| gpg --dearmor | tee /usr/share/keyrings/tor-archive-keyring.gpg >/dev/null
```

## 4. Install tor and tor debian keyring

We provide a Debian package to help you keep our signing key current. It is recommended you use it. Install it with the following commands:

```
# apt update
# apt install tor deb.torproject.org-keyring
```

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