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Debian Repository

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Debian Repository

Can I use APT over Tor?

Yes, deb.torproject.org is also served through via an Onion Service:

<http://apow7mjfryruh65chtdydfmqfpj5btws7nbocgtaovhvezgccyjazpqqd.onion/>

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.

To use Apt over Tor, the apt transport needs to be installed:

```
# apt install apt-transport-tor
```

Then you need to add the following entries to [/etc/apt/sources.list](#) or a new file in [/etc/apt/sources.list.d/](#) :

```
# For the stable version.
deb [signed-by=/usr/share/keyrings/tor-archive-keyring.gpg]
tor://apow7mjfryruh65chtdydfmqfpj5btws7nbocgtaovhvezgccyjazpqd.onion/torproject.
<DISTRIBUTION> main

# For the unstable version.
deb [signed-by=/usr/share/keyrings/tor-archive-keyring.gpg]
tor://apow7mjfryruh65chtdydfmqfpj5btws7nbocgtaovhvezgccyjazpqd.onion/torproject.
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.

Add the gpg key used to sign the packages by running the following command at your command prompt:

```
# wget -qO-
https://deb.torproject.org/torproject.org/A3C4F0F979CAA22CDBA8F512EE8CBC9E886DDD
| gpg --dearmor | tee /usr/share/keyrings/tor-archive-keyring.gpg >/dev/null
```

Install tor and tor debian keyring

Now refresh your sources and try to install tor and tor debian keyring:

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

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Can I use tor from Ubuntu's repository?

No. Do not use the packages in Ubuntu's universe. In the past they have not been reliably updated. That means you could be missing stability and security fixes. Instead, please use [Tor Debian repository](#).

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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 -qO-  
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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