

# Handling "apt-key is deprecated. Manage keyring files in trusted.gpg.d instead"

## You have already added the key in /etc/apt/trusted.gpg file

In this case, list the keys with this command: `sudo apt-key list` There should be a way to identify the repository. You should have its name or developers name.

In my case, I am handling the Spotify repository:

```
abhishek@itsfoss:~$ sudo apt-key list
[sudo] password for abhishek:
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d
instead (see apt-key%(8)%%).
/etc/apt/trusted.gpg
-----
pub   rsa4096 2021-10-27 [SC] [expires: 2023-01-20]
      F9A2 1197 6ED6 62F0 0E59 361E 5E3C 45D7 B312 C643
uid           [ unknown] Spotify Public Repository Signing Key
<tux@spotify.com>
```

Copy the last 8 characters of the second line under pub. In my case, it is B312 C643. You'll have to remove the space between the numbers and use it like this:

```
sudo apt-key export B312C643 | sudo gpg --dearmour -o
/etc/apt/trusted.gpg.d/spotify.gpg
```

The output file could be named anything but it is better to use a name that is associated with the package or repository.

The gpg --dearmour part is important because the mechanism expects you to have the keys in binary format.

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