

# Setup APT Repository (Sonatype Nexus3)

An alternative solution to host a repository for APT which is more easy to maintain is using Sonatype's Nexus3 Repository Manager. Firstly install Sonatype's Nexus3:

## Installation

1. Download Debian 12 Server from here: [debian.org/distrib](https://www.debian.org/distrib) and install your machine.
2. Install Java 17:

```
sudo apt install openjdk-17-jdk
```

3. Add user nexus to run Nexus3:

```
adduser nexus
```

4. Download the latest Nexus3 from <https://help.sonatype.com/en/download.html>
5. Unpack it to /opt/:

```
tar xzvf <downloaded-tar-package>.tar.gz -C /opt
```

6. Change owner of unpacked files:

```
chown nexus -R /opt/nexus-<version>
```

7. Make binary executeable:

```
chmod +x /opt/nexus-<version>/bin/nexus
```

8. Create systemd service with the name `nexus.service` and copy it to `/etc/systemd/system` (keep in mind to add the nexus version):

### **nexus.service**

```
[Unit]
Description=nexus service
After=network.target

[Service]
Type=forking
Environment="NEXUS_SECRETS_KEY_FILE=/opt/sonatype-work/nexus3/keystores/nexus.secrets.json"
LimitNPROC=65536
LimitNOFILE=65536
ExecStart=/opt/nexus-<version>/bin/nexus start
ExecStop=/opt/nexus-<version>/bin/nexus stop
User=nexus
Restart=on-abort
TimeoutSec=600
```

```
[Install]
WantedBy=multi-user.target
```

```
cp nexus.service /etc/systemd/system
```

```
systemctl start nexus.service
```

```
systemctl enable nexus.service
```

9. When everything was successful, enter the webservice with `http://<ip>:8081/`
10. The password for admin is located under `/opt/sonatype/sonatype-work/nexus3/admin.password` after entering the password, it's forced to be changed.

```
cat /opt/sonatype/sonatype-work/nexus3/admin.password
```

The installation of Nexus is now finished!

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Then add the repository:

## APT Repository (hosted)

1. Firstly create a GPG-Key for signing the release file:
2. Therefore install gpg and generate a key with

```
gpg --gen-key
```

. Then export the key with to paste it under APT Settings:

```
gpg --export-secret-key --armor <KEY-ID> > Key.gpg
```

3. If your key is password-secured enter the passphrase in the field below.
4. Then add the name above e.g. apt, and set the distribution e.g. to stable
5. It's then recommended to upload the public-release-key to a RAW storage to make it easy to download. Therefore export the public key with:

```
gpg --armor --export <KEY-ID> > Key.gpg
```

6. Finally add the repo to APT:

```
echo "deb [signed-by=/usr/share/keyrings/your-repo.gpg]
https://<your-repo>/repository/apt/ stable main" | sudo tee
/etc/apt/sources.list.d/<your-repo>.list
```

7. And add the key:

```
curl -sS https://<your-repo>/repository/storage/ReleaseKey.gpg | gpg --
dearmor | sudo tee /usr/share/keyrings/<your-repo>.gpg > /dev/null
```

## 8. Finished!

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Sourced from:

- [github.com/sonatype-nexus-community](https://github.com/sonatype-nexus-community)
- [howtoforge.com - install Nexus3 on Ubuntu22](https://howtoforge.com/install-Nexus3-on-Ubuntu22)
- [stackoverflow.com - Nexus serve up chocolatey](https://stackoverflow.com/questions/40111827/nexus-serve-up-chocolatey)

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<http://fixes.brecht-schule.hamburg/> - **Fixes | Public BIT Wiki**

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