Setup self hosted Chocolatey Repository/Proxy on Linux

To host a local repository for Chocolatey either as server for self-hosted packages or as proxy server for any NuGet server/the official chocolatey repository server we use Solartype Nexus3: sonatype.com - Nexus3. Nexus3 is also useable for hosting a simple, easy-to-manage repository for the APT-package manager.

Installation

1. Download Debian 12 Server from here: 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 systemservice 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!

Setup Repository

NuGet Proxy

To add a new NuGet (Chocolatey) repository proxy add a new `nuget (proxy)`. To proxy the official Chocolatey repository add the following URL as URL:

```
https://community.chocolatey.org/api/v2/
```

Finally save the proxy repository.

NuGet Hosted

If the repository should also host packages locally add a new `nuget (hosted)`.

This section will be extended later.

NuGet Group

To make the proxy-repository and all local hosted packages available through one URL, add a `nuget-group` on the repository tab. Then add both `nuget-proxy` and `nuget-hosted` to the group.

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!

Sourced from:

- *github.com/sonatype-nexus-community*
- *howtoforge.com - install Nexus3 on Ubuntu22*
- *stackoverflow.com - Nexus serve up chocolatey*

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

Permanent link:
http://fixes.brecht-schule.hamburg/windows/chocolatey/setup-self-hosted-choco-repo

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