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:
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