Public SPARQL Endpoint (versions 3.0.4 and older only)

⊘ These installation instructions are only applicable for SPARQL versions 3.0.4 and older. Current sparqler instructions can be found here.

Overview

A publicly-accessible SPARQL endpoint needs to be installed. It takes the form of an additional repository which contains everything in the main repository which is public (i.e. not email-addresses, phone-numbers, etc.; not un-published resources). It is affectionately known as the "sparqler" associated with this main repository. It is synchronized with its main repository on a regular basis - typically every night.

Installation

The installation of a sparqler follows very much the same procedure as for the main repository, with one or two changes because it doesn't live at the same location. The quick-start installation procedure is as follows - additional details are the same as for the main repository.

ⓘ These instructions assume that a repository has already been installed and that `${REPO_HOME}` has been defined as an environment variable.

1. In the existing eagle-i home directory, create a directory named `sparqler`. For example, if your eagle-i home directory is `/opt/eaglei`, you should be creating `/opt/eaglei/sparqler`.

   create sparqler home directory

   ```
   hms-mbp:eaglei user$ mkdir /sparqler
   ```

2. Create an environment variable for the sparqler home directory, `${SPARQLER_HOME}`. For example:

   define environment variable for sparqler home directory

   ```
   SPARQLER_HOME=/opt/eaglei/sparqler
   ```

3. Copy the file `${REPO_HOME}/webapps/sparqler.war` to Tomcat's webapps directory.

   copy sparqler.war

   ```
   hms-mbp:eaglei user$ cp ${REPO_HOME}/webapps/sparqler.war /opt/tomcat7/webapps
   ```

4. Add an additional system property to `catalina.properties`:

   catalina.properties

   ```
   org.eaglei.sparqler.home=/opt/eaglei/sparqler
   ```

5. Run the script `${REPO_HOME}/etc/prepare-install.sh` with an additional argument: "sparqler-users.derby" (note that the username and password for the user you create here - who administers the sparqler - these should be different from the main repository's admin-user credentials):

   run prepare-install.sh

   ```
   hms-mbp:eaglei user$ bash ${REPO_HOME}/etc/prepare-install.sh SPARQLER_USERNAME SPARQLER_PASSWORD
   ${REPO_HOME} sparqler-users.derby
   ```

6. Copy the repository configuration file to `${SPARQLER_HOME}`.

copy configuration file

```
hms-mbp:eaglei user$ cp ${REPO_HOME}/configuration.properties ${SPARQLER_HOME}/configuration.properties
```

7. Edit the newly created SPARQLER configuration file by changing the following two properties:

${SPARQLER_HOME}/configuration.properties

```
eaglei.repository.sesame.dir=${sys:org.eaglei.sparqler.home}/sesame
eaglei.repository.log.dir=${sys:org.eaglei.sparqler.home}/logs
```

8. Add two properties to your `eagle-i-apps.properties` file to define the source and target repositories:

${EAGLEI_HOME}/conf/eagle-i-apps.properties

```
eaglei.sparqler.source.URL=https://localhost:8443/
eaglei.sparqler.target.URL=https://localhost:8443/sparqler/
```

9. Add credentials to the `eagle-i-apps-credentials.properties` file for access to the source and target repositories:

${EAGLEI_HOME}/.config/eagle-i-apps-credentials.properties

```
eaglei.sparqler.lastSynchronizedDateFile=/eagle-i/home/sparqlerSyncDate.properties

# The credentials for the source repository
eaglei.sparqler.source.user=myRepositoryUser
eaglei.sparqler.source.password=myRepositoryPassword

# The credentials used by the prepare-install.sh above
eaglei.sparqler.target.user=mySparqlerUser
eaglei.sparqler.target.password=mySparqlerPassword
```

10. Start up tomcat
11. Run the script `${REPO_HOME}/etc/finish-install.sh`, using the same sparqler-admin username and password that you set up in step 5, above, when you ran the "`prepare-install.sh`":

run finish-install.sh

```
hms-mbp:eaglei user$ bash ${REPO_HOME}/etc/finish-install.sh SPARQLER_USERNAME SPARQLER_PASSWORD
https://localhost:8443/sparqler
```

Synchronization

The sparqler repository keeps itself up-to-date with its source-repository by running a periodic synchronization process. This is run automatically so long as the sparlqer and its source-repository are running - no intervention is required.

However, if for some reason the synchronization fails (look in sparqler/logs/repository.log), you can run the synchronizer manually by invoking the script ${REPO_HOME}/etc/synchronize-sparqler.sh as follows:

```
cd /opt/eaglei
bash repo/etc/synchronize-sparqler.sh
```

If you run on Windows (warning: this is explicitly unsupported), you should set up a Unix-like environment (e.g. Cygwin) in which to perform the installation and run the shell-scripts.