Install, configure and run the software

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Contents

Dependencies

- Alma Library Management System and Leganto Reading List Management System to query against

- Ex Libris API keys with read access to Courses and Bibs

- Host machine must have permission to use the Scopus API
  In general, it should be on the wired network of a Scopus-subscribing institution

- PHP

  - Code tested against versions 8.0.7, 8.1.5

  - Needs http wrappers and openssl enabled

  - Needs system function enabled

  - Needs cURL support including support for https and up-to-date cacert file

- Subscription to Scopus, and developer API key

- Subscription to WoS Expanded API, and developer API key

Installation

- Identify a suitable machine, with PHP installed and configured *(see Dependencies above)*

- In a suitable folder, checkout a copy of the project: https://dev.azure.com/uol-support/Reading%20Lists/_git/Citation%20enhancement

- Configure the software as described in **Configuration** (below)

Configuration

- Obtain developer API keys for the following Alma APIs from https://developers.exlibrisgroup.com/alma/apis/ - these need permission to the APIs on the production server, and only need read-only access:

  - Bibs

  - Courses

- Obtain a developer API key for the Scopus API from https://dev.elsevier.com/api_docs.html

- Obtain a developer API key for the WoS API Expanded from https://developer.clarivate.com/

- In your local copy of the project, copy the template file **config.template.ini** to become your configuration file **config.ini**

- Edit this new config.ini to contain your Alma, Scopus and WoS API keys e.g.

```
[Alma-Keys]
bibs    = xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
courses = xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
[Scopus]
apiKey = "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
[WoS]
apiKey = "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
```

- If your institution is an Ex Libris customer outside Europe, modify the values of **apiHost** and **apiURL** in the **Alma** section of config.ini - see the table in **Calling Alma APIs** in https://developers.exlibrisgroup.com/alma/apis/

- *See also 1_2_API_keys.pdf*

Running

There are two ways to do run the scripts -

- Explicitly call the individual scripts step-by-step for particular modules *See 1_3_the_individual_scripts.pdf*

- Use the convenience script **batch.php** which runs the desired steps in sequence for a set of modules *See 1_4_the_batch_script.pdf*

To demonstrate the software is installed and configured correctly, run the batch script against a single module code or a list of module codes e.g.:

```
php batch.php -m PSYC3505
```

This might take some time, particularly if the lists are long, but once complete there should be the following files in the directory **Data/**:

- For each module, a **MODULE.json** file with data from Leganto, Alma, Scopus, WoS and VIAF

- For each reading list, a short report in CSV format **LIST-CODE.CSV**

- For each reading list, a long report in CSV format **LIST-CODE_LONG.CSV**

- A single summary report **Summary.CSV**

For more options with running the script - for example processing a list of modules, or running the steps separately, see 1_4_the_batch_script.pdf.