

BiblioteQ Administrator Guide

Introduction

This document details the installation, configuration, and removal of BiblioteQ.

1. PostgreSQL Database Configuration

1.1 Database Configuration

BiblioteQ prefers the newest PostgreSQL. Please follow the PostgreSQL-provided documentation for installing PostgreSQL. After installing the required PostgreSQL packages, please perform the following operations:

- a) Create the xbook_db database via `createdb xbook_db -E UTF8` or via the PostgreSQL-recommended procedure. Please note that xbook_db is only a suggestion.
- b) Execute `createlang plpgsql -d xbook_db` or the PostgreSQL-recommended procedure for adding a new programming language to the xbook_db database. Please note that createlang may be deprecated.
- c) If desired, replace all instances of the default administrator xbook_admin in `postgresql_create_schema.sql` file.
- d) Log into your PostgreSQL xbook_db database and load the `postgresql_create_schema.sql` file via `\i postgresql_create_schema.sql`. While logged in, please load the unaccent extension via `CREATE EXTENSION IF NOT EXISTS unaccent`. You may remove the extension via the `DROP EXTENSION` command.
- e) Please remember to set a new password for the xbook_admin account.

1.2 Database Updates

It is sometimes necessary to update a database schema after a software update. To do so, please execute the version-specific SQL statements that are located in `postgresql_update_schema.sql`. You may also be required to execute additional steps via BiblioteQ. Please read and follow the version-specific instructions included in the release notes.

2. BiblioteQ Installation

2.1 MacOS Installation

Please copy the contents of the MacOS bundle to the desired folder. You may be required to copy `biblioteq.conf` to `/`.

2.2 Unix Installation

Installing BiblioteQ on platforms that lack prepared bundles involves several operations. First, please resolve the following software prerequisites:

- a) Qt LTS must be installed. Qt 4.7.4 and Qt 4.8.x are not supported. Please download the newest Qt LTS from <https://www.qt.io/download>.
- b) YAZ 4.2.x, or higher, is optional. Please download the software from <http://www.indexdata.com/yaz>.

- c) If you intend to use PostgreSQL, the PostgreSQL database package must be installed. Please download the software from <https://www.postgresql.org/download>.
- d) After the required dependencies have been fulfilled and your environment is properly configured for Qt, build BiblioteQ via `qmake -o Makefile biblioteq.pro && make`. Some systems provide `gmake`, `qmake-qt5`, etc.

2.3 Windows Installation

Windows users are urged to download the appropriate bundle. The bundle contains BiblioteQ.exe as well as an assortment of dependencies.

3. Configuring BiblioteQ

Configuring the runtime environment of BiblioteQ is relatively simple. Bundled with the software is the `biblioteq.conf` file. After BiblioteQ has been installed, please review the `biblioteq.conf` file.

4. Removing BiblioteQ

4.1 MacOS

Remove the BiblioteQ installation directory. You may also wish to remove the configuration directory (`~/biblioteq`).

4.2 Unix

Remove `/opt/biblioteq` or `/usr/local/biblioteq`. You may also wish to remove the configuration directory (`~/biblioteq`).

4.3 Windows

Remove the BiblioteQ folder.

5. PostgreSQL Database Preparation

The `pg_hba.conf` and `postgresql.conf` files must be modified. The location of these files varies. Please restart the database service after modifying the files.

Example `pg_hba.conf`:

```
hostssl xbook_db    all          192.168.178.0/24    scram-sha-256
```

Example `postgresql.conf`:

```
listen_addresses = '192.168.178.1, localhost'
```

6. PostgreSQL Database Removal

The script `postgresql_destroy_schema.sql` may be used to remove the original database

xbook_db and other objects created by the postgresql_create_schema.sql script.

6.1 MacOS and Unix

The dropdb command may be used to remove a PostgreSQL database. The dropuser command may be used to remove PostgreSQL users. If available, pgAdmin may also be used.

6.2 Windows

Please use pgAdmin.

7. SQLite Database Removal

Delete the desired SQLite database file(s).