

# BiblioteQ Administrator Guide

## Introduction

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

## 1. PostgreSQL Database Configuration

### 1.1 Database Configuration

BiblioteQ supports PostgreSQL 8.x, 9.x, and newer. 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 OS X Installation

Please copy the contents of the OS X 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 Qt 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) If you intend to use SQLite, the SQLite package must be installed. Please download the software from <https://www.sqlite.org/download.html>.
- e) 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. If necessary, please modify it to suit your preferences.

## 4. Removing BiblioteQ

### 4.1 OS X

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

### 4.2 Unix

Remove the `/usr/local/biblioteq` directory. 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`:

```
host    xbook_db    all          192.168.178.0/24    md5
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 OS X 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).