

Software requirements

Introduction

This document lists the required set of software components necessary to run Snow Owl Server on the x86_64 platform. Components and the corresponding files to download are listed in the sections below.

Components

Operating system

Snow Owl Server requires a **CentOS** or **Red Hat Enterprise Linux Server (RHEL)** release 6 installation. As of 2015-07-17, the latest available release for CentOS is [version 6.6](#). We recommend starting with a minimal install using the ISO image named `CentOS-6.6-x86_64-minimal.iso` and adding packages later, as required.

Database server software

Terminology contents are persisted using the 5.6 series of **MySQL Community Server**, downloadable from [MySQL's yum repository](#). Select “Red Hat Enterprise Linux / Oracle Linux 6 (Architecture independent), RPM package” with name `mysql-community-release-el6-5.noarch.rpm` for download.

JDK

Snow Owl Server uses version 7 of the **Java SE Development Kit**; note that runtime checks in the core server component prevent it from starting on JDK 8. An installable archive of Critical Patch Update 79 can be downloaded from the [JDK7 download page](#). Select the “Linux x64” edition named `jdk-7u79-linux-x64.rpm`.

LDAP

Authentication and authorization of browsers, terminology editors, reviewers and administrators is performed through an **Apache DS** version 2.0 LDAP server. The package to install can be located by following the download link after `ApacheDS 2.0.0-M12` on the [Download Old Versions](#) page. The file to download is `apacheds-2.0.0-M12-x86_64.rpm`.

Browsing and managing ApacheDS instances can be done through the **Apache Directory Studio** application. We recommend installing the latest release from the corresponding [Downloads Old Versions](#) page on Apache's website. Download `Apache Directory Studio 2.0.0-M7` for a version compatible with the M12 release of the server.

Task tracking

When using Snow Owl's desktop client, terminology editing tasks can be tracked using **Bugzilla** version 3.6. (Recent versions are not guaranteed to work correctly with client integration.) The

archived download of Bugzilla can be found at <https://ftp.mozilla.org/pub/mozilla.org/webtools/archived/bugzilla-3.6.13.tar.gz>.

NOTE

Bugzilla requires Perl modules not included in CentOS repositories. See the [usage instructions](#) for the Extra Packages for Enterprise Linux (**EPEL**) project for adding the required yum repository.

Reasoners

Depending on the complexity of the ontology, you may need to use the FaCT++ reasoner, which relies on a native library component to increase performance. A customized version of FaCT++ exists for Snow Owl, which requires version **2.12** from the **GNU C Library (glibc)** to be present, which is already included in the OS distributions described above.

Note that the downloadable release of the same reasoner is based on a different (newer) glibc version, which makes it unsuitable for use within Snow Owl on CentOS/RHEL 6.