

Dependencies

The following sections list the prerequisite software required for OpenDNSSEC.

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Software versions

The following sections list the prerequisite software required for OpenDNSSEC. For Ubuntu users, the name of the package (where relevant) is listed.

The version of the package available from the Ubuntu download sites may not be compatible with OpenDNSSEC; in that case, the latest version of the package should be obtained (and built if required).

Users of operating systems with different software packaging should consult the appropriate documentation.

Implicit in these sections is the assumption that the operating system has the following languages installed: C, C++. If any are absent, consult the documentation for your operating system.

In all cases, a location from where to get a copy of the package source code and build instructions for the package are given.

As [there](#) are some dependencies between the prerequisite components, they should be installed in the order listed here.

Note, where no version number is specified any fairly recent distribution (e.g. Ubuntu 10.04) will have a new enough version of the software in its standard repositories. Also note that these are minimum version numbers, so they provide API calls that we use; there may be bug fixes in later versions which are useful.

Software	min. version for 1.4.0	min. version for trunk
ldns*	1.6.12	1.6.12
libxml2, libxml2-dev, libxml2-utils	2.6.16	2.6.16
java	not required	
sqlite3, libsqlite3, libsqlite3-dev	3.3.9	3.3.9
(mysql-client, libmysqlclient15, libmysqlclient15-dev)	5.0.3	5.0.3

* Note that due to issues found in ldns version 1.3.11 (and later) of OpenDNSSEC does not support version 1.6.14 or 1.6.15 of ldns

ldns

ldns is a DNS programming library used in the signer component.

Ubuntu Users

Make sure the the packages "libldns-x.z.y" (where "x.y.z" is the ldns version number) and "libldns-dev" are installed on your system.

Installing from Source Distribution

Download a copy of ldns from <http://www.nlnetlabs.nl/downloads/ldns>.

When downloaded and unpacked, "cd" into the directory into which you have unpacked the tar file and issue the following commands:

```
./configure --disable-gost
make
sudo make install
```

This installs the ldns library in `/usr/local/lib`. If you require the software to be installed elsewhere, add the switch `--prefix=<location>` to the `./configure` command.

libxml2

libxml2 is a C-library for handling XML. It is used in all parts of OpenDNSSEC.

Ubuntu Users

Install the packages "libxml2", "libxml2-dev", and "libxml2-utils".

Installing from Source Distribution

Download a copy of libxml2 from <http://xmlsoft.org/downloads.html>.

When downloaded and unpacked, "cd" into the directory into which you have unpacked the tar file and issue the following commands:

```
./configure
make
sudo make install
```

This installs the libxml2 library in */usr/local/lib*. If you require the software to be installed elsewhere, add the switch `--prefix=<location>` to the `./configure` command.

MySQL

MySQL is the recommended database for production environments.

Ubuntu Users

Install the packages "mysql-client", "libmysqlclient15", "libmysqlclient15-dev".

Installing from Source Distribution

Download it from <http://dev.mysql.com/downloads/mysql>

At this site there are links for various different systems, or to the source code if you want to build the code yourself. Full documentation is also available from the download page.

SQLite

SQLite is a cut-down SQL database system, used by the KASP component of OpenDNSSEC.

Ubuntu Users

Install the packages "sqlite3" and "libsqlite3-dev".

Installing from Source Distribution

Download a copy of SQLite from <http://www.sqlite.org/download.html>.

When downloaded and unpacked, "cd" into the directory into which you have unpacked the tar file and issue the following commands:

```
./configure
make
sudo make install
```

This installs sqlite in */usr/local/bin*. If you require the software to be installed elsewhere, add the switch `--prefix=<location>` to the `./configure` command.