

## BUILD PREREQUISITES

**Tip:** Check this section to see if there are specific prerequisites for your Linux/Unix distribution.

Before you can build Ceph source code, you need to install several libraries and tools. Ceph provides `autoconf` and `automake` scripts to get you started quickly. Ceph build scripts depend on the following:

- `autotools-dev`
- `autoconf`
- `automake`
- `cdb`s
- `gcc`
- `g++`
- `git`
- `libboost-dev`
- `libedit-dev`
- `libssl-dev`
- `libtool`
- `libfcgi`
- `libfcgi-dev`
- `libfuse-dev`
- `linux-kernel-headers`
- `libcrypto++-dev`
- `libcrypto++`
- `libexpat1-dev`
- `pkg-config`
- `libcurl4-gnutls-dev`

On Ubuntu, execute `sudo apt-get install` for each dependency that isn't installed on your host.

```
sudo apt-get install autotools-dev autoconf automake cdb
```

On Debian/Squeeze, execute `aptitude install` for each dependency that isn't installed on your host.

```
aptitude install autotools-dev autoconf automake cdb
```

On Debian/Wheezy, you may also need:

```
keyutils-dev libaio and libboost-thread-dev
```

**Note:** Some distributions that support Google's memory profiler tool may use a different package name (e.g., `libgoogle-perftools4`).

## UBUNTU

- `uuid-dev`
- `libkeyutils-dev`
- `libgoogle-perftools-dev`
- `libatomic-ops-dev`
- `libaio-dev`
- `libgdata-common`
- `libgdata13`
- `libsnappy-dev`
- `libleveldb-dev`

Execute `sudo apt-get install` for each dependency that isn't installed on your host.

```
sudo apt-get install uuid-dev libkeyutils-dev libgoogle-perftools-dev libatomic-ops-dev libai
```

## DEBIAN

Alternatively, you may also install:

```
aptitude install fakeroot dpkg-dev  
aptitude install debhelper cdb libexpat1-dev libatomic-ops-dev
```

## OPENSUSE 11.2 (AND LATER)

- boost-devel
- gcc-c++
- libedit-devel
- libopenssl-devel
- fuse-devel (optional)

Execute `zypper install` for each dependency that isn't installed on your host.

```
zypper install boost-devel gcc-c++ libedit-devel libopenssl-devel fuse-devel
```