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`
- `cdbs`
- `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 cdbs gcc g++ git libboost-dev libedit-de
```

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

```
aptitude install autotools-dev autoconf automake cdbs gcc g++ git libboost-dev libedit-dev li
```

On Debian/Wheezy, you may also need:

```
keyutils-dev libaio 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 cdbs 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
```