BUILD CEPH PACKAGES

To build packages, you must clone the Ceph repository. You can create installation packages from the latest code using `dpkg-buildpackage` for Debian/Ubuntu or `rpmbuild` for the RPM Package Manager.

Tip: When building on a multi-core CPU, use the `-j` and the number of cores * 2. For example, use `-j4` for a dual-core processor to accelerate the build.

ADVANCED PACKAGE TOOL (APT)

To create `.deb` packages for Debian/Ubuntu, ensure that you have cloned the Ceph repository, installed the build prerequisites and installed `debhelper`:

```
sudo apt-get install debhelper
```

Once you have installed debhelper, you can build the packages:

```
sudo dpkg-buildpackage
```

For multi-processor CPUs use the `-j` option to accelerate the build.

RPM PACKAGE MANAGER

To create `.rpm` packages, ensure that you have cloned the Ceph repository, installed the build prerequisites and installed `rpm-build` and `rpmdevtools`:

```
yum install rpm-build rpmdevtools
```

Once you have installed the tools, setup an RPM compilation environment:

```
rpmdev-setuptree
```

Fetch the source tarball for the RPM compilation environment:

```
wget -P ~/rpmbuild/SOURCES/ http://ceph.com/download/ceph-<version>.tar.gz
```

Or from the EU mirror:

```
wget -P ~/rpmbuild/SOURCES/ http://eu.ceph.com/download/ceph-<version>.tar.gz
```

Build the RPM packages:

```
rpmbuild -tb ~/rpmbuild/SOURCES/ceph-<version>.tar.gz
```

For multi-processor CPUs use the `-j` option to accelerate the build.