

INSTALLING ON CALXEDA

The Calxeda partnership with Inktank brings the Ceph Distributed Storage System to Calxeda hardware. This document describes how to install Ceph development packages on Calxeda hardware.

Ceph on Calxeda uses Debian/Ubuntu Linux. At this time, gitbuilder builds development packages for Calxeda on the Quantal Quetzal (i.e., 12.10) version of Ubuntu. The installation process for Ceph on Calxeda is almost identical to the process for installing Ceph packages on [Debian/Ubuntu](#).

INSTALL KEY

Packages are cryptographically signed with the `autobuild.asc` key. Add the Ceph autobuild key to your system's list of trusted keys to avoid a security warning:

```
wget -q -O- 'https://ceph.com/git/?p=ceph.git;a=blob_plain;f=keys/autobuild.asc' | sudo apt-key add -
```

ADD PACKAGE

Add the Ceph package repository to your system's list of APT sources, but replace `{BRANCH}` with the branch you'd like to use (e.g., `master`, `stable`, `next`, `wip-hack`).

```
echo deb http://gitbuilder.ceph.com/ceph-deb-$(lsb_release -sc)-armv7l-basic/ref/{BRANCH} $(lsb_release -sc) main | sudo tee /etc/apt/sources.list.d/ceph.list
```

PREREQUISITES

Ceph on Calxeda requires Google's memory profiling tools (`google-perftools`). The Ceph repository should have a copy at <http://ceph.com/packages/google-perftools/debian>.

```
echo deb http://ceph.com/packages/google-perftools/debian $(lsb_release -sc) main | sudo tee /etc/apt/sources.list.d/google-perftools.list
sudo apt-get update
sudo apt-get install google-perftools
```

INSTALL CEPH

Once you have added development packages to APT and installed Google memory profiling tools, you should update APT's database and install Ceph:

```
sudo apt-get update
sudo apt-get install ceph
```

You may also use `ceph-deploy` to install Ceph, but you must add the key and packages and install `google-perftools` first.

CEPH OBJECT STORAGE PACKAGES

If you intend to run Ceph Object Storage on Calxeda hardware, you should add the `apache2` and `fastcgi` packages **before** installing Ceph Object Storage components.

```
echo deb http://gitbuilder.ceph.com/libapache-mod-fastcgi-deb-quantal-arm7l-basic | sudo tee /etc/apt/sources.list.d/libapache-mod-fastcgi.list
echo deb http://gitbuilder.ceph.com/apache2-deb-$(lsb_release -sc)-arm7l-basic/ref/ master $(lsb_release -sc) main | sudo tee /etc/apt/sources.list.d/apache2.list
```

Once you have added these packages, you may install Ceph Object Storage on Calxeda hardware.
