DebianPackaging

Official Package To Install On Debian(tm) (not a product of Debian(tm))

Add the following lines to /etc/apt/sources.list:

```
deb http://www.apache.org/dist/cassandra/debian 30x main deb-src http://www.apache.org/dist/cassandra/debian 30x main
```

You will want to replace 30x by the series you want to use: 22x for the 2.2x series, 21x for the 2.1x series, etc... You will not automatically get major version updates unless you change the series, but that is a feature.

Adding Repository Keys

If you run apt-get update and see an error similar to this:

```
GPG error: http://www.apache.org unstable Release: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY F758CE318D77295D
```

This simply means you need to add a PUBLIC_KEY for Apache Cassandra deb releases. The Apache Cassandra committer's public keys are available at https://www.apache.org/dist/cassandra/KEYS

To add the KEYS file to apt in one command (may be repeated on existing installs, if you see an error similar to above, and the new Release Manager keys will be fetched):

```
curl https://www.apache.org/dist/cassandra/KEYS | sudo apt-key add -
```

sudo apt-key list should show the following keys added, along with the base OS keys:

```
1024D/F2833C93 2004-01-18
pub
uid
                     Eric Evans <eevans@sym-link.com>
uid
                     Eric Evans <eevans@debian.org>
uid
                     Eric Evans <eevans@opennms.org>
sub
      2048g/98CB5BA4 2004-01-18
      4096R/8D77295D 2009-07-12
pub
uid
                     Eric Evans <eevans@sym-link.com>
uid
                     Eric Evans <eevans@apache.org>
                     Eric Evans <eevans@debian.org>
uid
uid
                     Eric Evans <eevans@opennms.com>
uid
                     Eric Evans <eevans@opennms.org>
sub
      4096R/C47D63C0 2009-07-12
      2048R/2B5C1B00 2011-04-13
pub
uid
                     Sylvain Lebresne (pcmanus) <sylvain@datastax.com>
      2048R/9CB2AA80 2011-04-13
sub
      4096R/0353B12C 2014-09-05
pub
uid
                     T Jake Luciani < jake@apache.org>
      4096R/D35F8215 2014-09-05
sub
pub
      4096R/FE4B2BDA 2009-07-15
                     Michael Shuler <michael@pbandjelly.org>
uid
uid
                     Michael Shuler <mshuler@gmail.com>
      4096R/25A883ED 2009-07-15
sub
```

Alternative Key Fetching

If you wish to manually add an individual committer's key, apt-key can fetch from a keyserver, as follows, using the long key ID: (Michael Shuler's key was added to KEYS on 2016-09-23, so releases after this date may be signed with FE4B2BDA)

Eric Evans:

```
sudo apt-key adv --keyserver pool.sks-keyservers.net --recv-key 0xF8358FA2F2833C93 sudo apt-key adv --keyserver pool.sks-keyservers.net --recv-key 0xF758CE318D77295D
```

Sylvain Lebresne:

```
sudo apt-key adv --keyserver pool.sks-keyservers.net --recv-key 0x4BD736A82B5C1B00
```

Jake Luciani:

```
sudo apt-key adv --keyserver pool.sks-keyservers.net --recv-key 0x749D6EEC0353B12C
```

Michael Shuler:

```
sudo apt-key adv --keyserver pool.sks-keyservers.net --recv-key 0xA278B781FE4B2BDA
```

Install Apache Cassandra

```
sudo apt-get update
sudo apt-get install cassandra
sudo apt-get install cassandra-tools # optional utilities
```

Some things to be aware of:

- The configuration files are located in /etc/cassandra
- Start-up options (heap size, etc) can be configured in /etc/default/cassandra

Building Packages on Debian

Once all the build dependencies are set up, all you need to do is run

```
dpkg-buildpackage -uc -us
```

Troubleshooting:

Make sure you are building with the Oracle JDK, not OpenJDK, and not gcj. You want to see something like this:

```
$ java -version
java version "1.8.0_102"
Java(TM) SE Runtime Environment (build 1.8.0_102-b14)
Java HotSpot(TM) 64-Bit Server VM (build 25.102-b14, mixed mode)
```

By default, installing the Cassandra Debian package or its build dependencies will pull in OpenJDK. For runtime purposes this will work fine, but you may wish to install Oracle JRE, which is outside the scope of this document.

https://c.statcounter.com/9397521/0/fe557aad/1/|stats