

FlutterStick USB

Ubuntu 14.04 LTS Installation Steps

1. Get a USB Stick - I picked up a 64GB USB3 at Best Buy \$27.00
2. Download Ubuntu 14.04 Desktop 64bit to a computer
3. Burn the ISO to a DVD
4. Boot the DVD on system with USB drive
5. Install as "Select Other"
6. Delete any partitions on the USB drive - VERIFY!!!!
7. On the USB drive create a 60000 "ext4" type partition and mount this to /
8. On the USB drive create the remainder as "swap area"
9. On the USB drive choose install
10. Finish the install questions, and it will reboot
11. Boot the USB
12. Apply Updates and Reboot

Configuring your environment

1. Installed Chrome using Ubuntu Software Center
2. Right-click on search at top - Chrome, drag to Start Bar
3. Right-click on search at top - Terminal, drag to Start Bar
4. Launch Terminal - Note: You will use this for most of the steps below
5. `sudo apt-get install git debootstrap ruby apt-cacher-ng python-vm-builder lxc kvm`

Configure Directories for Gitian Builds

1. `mkdir flutterbuild`
2. `cd flutterbuild`
3. `git clone https://github.com/devrandom/gitian-builder gitian`
4. `git clone https://github.com/ofeefee/fluttercoin fluttercoin`
5. `cd gitian`
6. `mkdir inputs`

Download Dependencies

1. Download the following, place them in gitian/inputs
 - a. <https://www.openssl.org/source/openssl-1.0.1g.tar.gz>
 - b. <http://download.oracle.com/otn/berkeley-db/db-6.0.20.NC.tar.gz>
 - c. <http://pkgs.fedoraproject.org/repo/pkgs/miniupnpc/miniupnpc-1.8.tar.gz/065bf20a20ebe605c675b7a5aaef340a/miniupnpc-1.8.tar.gz>
 - d. <http://zlib.net/zlib-1.2.8.tar.gz>
 - e. <http://sourceforge.net/projects/libpng/files/libpng16/older-releases/1.6.8/libpng-1.6.8.tar.gz/download>
 - f. <http://fukuchi.org/works/qrencode/qrencode-3.4.3.tar.bz2>

- g. <http://download.qt-project.org/archive/qt/4.8/4.8.3/qt-everywhere-opensource-src-4.8.3.tar.gz>
 - h. http://sourceforge.net/projects/boost/files/boost/1.55.0/boost_1_55_0.tar.bz2/download
 - i. <https://svn.boost.org/trac/boost/raw-attachment/ticket/7262/boost-mingw.patch>
 - j. <https://protobuf.googlecode.com/files/protobuf-2.5.0.tar.bz2>
2. mv boost-mingw.patch boost-mingw-gas-cross-compile-2013-03-03.patch

Build Gitian VMs

1. flutterbuild/gitian - Note: these take awhile to build
2. KVM
 - a. bin/make-base-vm --suite precise --arch i386
 - b. bin/make-base-vm --suite precise --arch amd64
3. LXC
 - a. bin/make-base-vm --lxc --arch i386
 - b. bin/make-base-vm --lxc --arch amd64
 - c. export USE_LXC=1
 - d. sudo brctl addbr br0
 - e. sudo ifconfig br0 10.0.2.2/24 up

Build Dependencies

1. flutterbuild/gitian - Note: After each step move build/out to the inputs directory
2. bin/gbuild ../fluttercoin/contrib/gitian-descriptors/protobuf-win.yml
3. bin/gbuild ../fluttercoin/contrib/gitian-descriptors/boost-win.yml
4. bin/gbuild ../fluttercoin/contrib/gitian-descriptors/deps-win.yml
5. bin/gbuild ../fluttercoin/contrib/gitian-descriptors/qt4-win.yml
6. bin/gbuild ../fluttercoin/contrib/gitian-descriptors/boost-linux.yml
7. bin/gbuild ../fluttercoin/contrib/gitian-descriptors/deps-linux.yml

Build Windows

- flutterbuild/fluttercoin
- ./build-win.sh Note: Files will be copied to flutterbuild/gitian

Build Linux

- flutterbuild/fluttercoin
- ./build-linux.sh Note: Files will be copied to flutterbuild/gitian