



Build Environment Update

Version: 2032

Copyright 2007-2010 ImageStream Internet Solutions, Inc., All rights Reserved.

Table of Contents

RichardJune/Build Environment Update.....	1
Installation.....	1
Notes.....	1

RichardJune/Build Environment Update

Installation

1. download ubuntu and make CD
<http://mirrors.us.kernel.org/ubuntu-releases/intrepid/ubuntu-8.10-desktop-i386.iso>
2. Just do the default installation
3. After installation, reboot and login, open a terminal(Applications->Accessories->Terminal) and run the following:

```
sudo apt-get update
sudo apt-get -y upgrade
sudo reboot
sudo apt-get -y install patch gcc-3.4 cvs bison flex
sudo rm /bin/sh
sudo ln -s /bin/bash /bin/sh
export CVSROOT=":pserver:USERNAME@cvs.imagestream.com:/server/usr/local/oem"
cvs login
# This will take a while, it downloads about thirty five MegaBytes
cvs co rbe
cd rbe
# This will take a while, it downloads quite a bit and then builds gcc, glibc, and a few other tools
make crosscomp
cd router-src
./build -b
# your PATH is now set to use the compiler just built, gcc -v should show gcc version 3.2.3
```

The build environment is now setup, you will find gcc, etc in `crosscomp/gcc-3.2.3-glibc-2.2.2/i686-unknown-linux-gnu/i686-unknown-linux-gnu/bin/`. Use those tools to build.

Notes

1. Ubuntu is the distribution most commonly used internally, other distributions should work, but are unknown.
2. Gcc 3.3 and Gcc 3.4 are the only versions known to work. One of them should be `/usr/bin/gcc-3.3` or `/usr/bin/gcc-3.4`
3. `/bin/sh` should be a symlink to `/bin/bash`.
4. You must have a username and password from us to download the build environment.
5. The system must have functional internet access to download and build the router environment.

