Apache 2.3 and 2.4 from Source

Disclaimer: No warranties are made or implied.

This recipe was developed on Ubuntu 11.04 with Apache httpd 2.3.14, beta for 2.4.

If these are no longer current, adjust for the newest versions.

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(http://httpd.apache.org/docs/2.2/license.html).

Install System Dependencies:

build-essential libpcre3 libpcre3-dev openssl zlib1g-dev zlib1g libssl-dev ssl-cert libssl0.9.8

Obtain the Source:

Get the source from http://httpd.apache.org/download.cgi, you'll want to get both the source and dependencies files.

```
wget http://apache.mirrors.tds.net//httpd/httpd-2.3.14-beta.tar.bz2
wget http://apache.mirrors.tds.net//httpd/httpd-2.3.14-beta-deps.tar.bz2
tar -xf httpd-2.3.14-beta.tar.bz2
tar -xf httpd-2.3.14-beta
```

Build It:

cd into the source folder.

```
./configure --enable-mods-shared="all ssl" --with-included-apr
```
The switches tell the compiler to build all modules as dynamically loadable modules, and to meet Apache Portable Runtime dependencies from the dependencies we downloaded with httpd.

```
make
make install
cd /usr/local/apache2/bin
./apachectl start
```
browse your server, expect to see the "It works" page.

```
./apachectl stop
```

Make shortcuts in /usr/bin for the utilities you use most often. I link apachectl as apache2ctl because most distributions do it this way to avoid a conflict with an instance of Apache 1.x, so I'm used to needing to type it that way.

```
ln  htpasswd /usr/bin/htpasswd
ln  htdigest /usr/bin/htdigest
ln  rotatelogs /usr/bin/rotatelogs
ln  apachectl /usr/bin/apachectl
ln  apachectl /usr/bin/apache2ctl
```

Link the apache directory `ln -s /usr/local/apache2/conf apache2`

Create the apache user: `adduser --system apache`

Make a safety copy of httpd.conf

Edit httpd.conf

```
User daemon User apache
Group daemon Group nogroup
```

Create a startup job for Apache:

```
cp /usr/local/apache2/bin/apachectl /etc/init.d/apache ctl
chmod +x /etc/init.d/apachectl
sudo /usr/sbin/update-rc.d apachectl defaults
service apachectl start
```

Confirm apache running under new user:

```
ps -aux grep httpd
```

Final Word

You have a stock Apache configuration with a monolithic httpd.conf file. I recommend creating a vhosts directory immediately, include any vhosts you create manually. You will be enabling and disabling modules directly through your httpd.conf. You can use the convention of calling your new apache2 or just call it apache, adjust per your decision. If you plan to also run another apache on this server make sure your names don't conflict.

Credits

A lot of this article was cribbed from : http://trickslicksharmonix.blogspot.com/2007/12/installing-apache-22-from-source-on.html, you may also find the official documentation helpful http://httpd.apache.org/docs/trunk/install.html.