*By Jacob* Published: 2007-12-23 18:44

# **Build A HylaFax Server With AvantFax Frontend Using Debian Etch**

Install Debian. I used the basic barebones install option. I didsome things that were done because of preference, and not necessary. Ihave marked them approriately. I encourage contributions from anyonewho would like to add or correct something in this HowTo to contact meso I can fix it. I have installed this setup twice following these instructions and used Avantfax 2.3.0. Thanks to all the resources whohelped me figure this out. Especially Razametal, who submitted afantastic Spanish language <u>walkthrough on ecualug.org.</u>

Remove cdrom source:

# nano /etc/apt/sources.list

Throw a *#* in front of the cdrom source.

Bring your box up to date:

# apt-get update

# apt-get upgrade

Reboot:

# shutdown â€"r now

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\*\*\*\*\*\*\*\*\*\*\*end of optional section\*\*\*\*\*\*\*\*\*\*

Log in as root.

Give the machine a static IP:

# nano /etc/network/interfaces

Replace the œinet dhcp• with something similar to this:

iface eth0 inet static		
	ddress 192.168.1.51	
	netmask 255.255.255.0	
	network 192.168.1.0	
	proadcast 192.168.1.255	
	gateway 192.168.1.1	

## Reset the connection:

# ifdown eth0 && ifup eth0

#### Install ssh server:

# apt-get install openssh-server

Log in as root via PuTTY (or continue on the terminal).

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Atthis point, you need to know what port your modem is at. It should beat one of the /dev/ttyS\*'s. If you don't know this, start googleing.

Install hylafax:

# apt-get install hylafax-server

# faxsetup

Allow it to run faxmodem to connect the modem. Use defaults except for:

# Area code [415]? <your area code>
# Phone number of fax modem [+1.999.555.1212]? <your phone number>
# Local identification string (for TSI/CIG) ["NothingSetup"]? <a name for your fax server>
# Protection mode for received facsimile [0600]? 0644
# Protection mode for session logs [0600]? 0644
# Protection mode for ttyS0 [0600]? 0666

Use class 1 modem unless you know better.

Allow users from your subnet access to the fax service:

# nano /etc/hylafax/hosts.hfaxd

Add to the end of the file:

192\.168\.:::

#### Reboot:

# shutdown -r now

Test the server:

# faxstat -a -s

## You should get something like this:

- # HylaFAX scheduler on <your server name>: Running
- # Modem ttyS2 (<your phone number>): Running and idle

Add a fax user. This will create a user named "user" with userID 101 and no password.

# faxadduser -u 100 user

Add an administrator. This will create a user named admin with admin password cpassword>:

# faxadduser -a <password> -p <password> -u 100 admin

Atthis point, hylafax works. You can test it by connecting a client likeWHFC to try it out. If you need to switch up the config later, usethese files:

/etc/hylafax/config
/etc/hylafax/config.ttyS\*

Now, lets get messy and install a cute web front end on it.

Install the prerequisites:

# apt-get install apache2-mpm-prefork apache2-utils apache2.2-common \

libapache2-mod-php5 libapr1 libaprutil1 libpq4 libsqlite3-0 php5-cli php5-common \

 $mysql-server\ image magick\ libtiff 4-dev\ netpbm\ libnetpbml0-dev\ libung if-bin\ \backslash$ 

libungif4-dev sudo postfix php-mail php-mail-mime php-file php-db php5-mysql \

ap2 psutils wdiff

# cd /usr/src

# wget http://easynews.dl.sourceforge.net/sourceforge/avantfax/avantfax-2.3.0.tgz

# tar zvxf avantfax-2.3.0.tgz

# cd avantfax-2.3.0

You can edit avantfax/includes/config.php if you need to, but I didn't have to change anything.

#### Move avant to web folder and set permissions:

# mv /usr/src/avantfax-2.3.0/avantfax /var/www/

# chmod -R 777 /var/www/avantfax/tmp /var/www/avantfax/faxes

Rename original *faxrcvd* and notify scripts. Replace with avantfax ones:

# ln -s /var/www/avantfax/includes/faxcover.php /usr/bin/faxcover

# cd /var/spool/hylafax/bin
# mv faxrcvd faxrcvd.old
# mv notify notify.old
# ln -s /var/www/avantfax/includes/faxrcvd.php /var/spool/hylafax/bin/faxrcvd
# ln -s /var/www/avantfax/includes/notify.php /var/spool/hylafax/bin/notify
# mv /usr/bin/faxcover /usr/bin/faxcover.old

Edit create\_tables.sql to use avantfax database:

# nano create\_tables.sql

Add "USE avantfax;" to top.

Edit setup.sh to chown to "root.root":

# nano setup.sh

Change apache.apache to "root.root".

Run the setup script:

# ./setup.sh

#### Add two scripts to root's crontab:

# crontab -e

# runs once an hour to update the phone book
0 \* \* \* \* /var/www/avantfax/includes/phb.php

# runs once a day to remove old files

0 0 \* \* \* /var/www/avantfax/includes/remold.php

#### Switch up your Apache settings:

# nano /etc/apache2/sites-enabled/000-default

### Change it to this:

NameVirtualHost *		
VirtualHost *>		
ServerAdmin webmaster@localhost		
DocumentRoot /var/www/avantfax		
<directory></directory>		
Options FollowSymLinks		
AllowOverride None		
<directory avantfax="" var="" www=""></directory>		
Options Indexes FollowSymLinks MultiViews		
AllowOverride None		

Order allow, deny

allow from all

# This directive allows us to have apache2's default start page

# in /apache2-default/, but still have / go to the right place

#RedirectMatch ^/\$ /apache2-default/

</Directory>

ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/

<Directory "/usr/lib/cgi-bin">

AllowOverride None

Options ExecCGI -MultiViews +SymLinksIfOwnerMatch

Order allow, deny

Allow from all

</Directory>

# Possible values include: debug, info, notice, warn, error, crit, # alert, emerg.

LogLevel warn

CustomLog /var/log/apache2/access.log combined

ServerSignature On

Alias /phpmyadmin "/usr/share/phpmyadmin/"

<Directory "/usr/share/phpmyadmin/">

Options Indexes MultiViews FollowSymLinks

</Directory>

Alias /doc/ "/usr/share/doc/"

<Directory "/usr/share/doc/">

Options Indexes MultiViews FollowSymLinks

AllowOverride None

Order deny,allow

Deny from all

Allow from 127.0.0.0/255.0.0.0 ::1/128

</Directory>

</VirtualHost>

Restart Apache:

# /etc/init.d/apache2 restart

Go to http://<yourIP>/admin. Log in using u/n: afadmin, p/w: password.

Configure your modems. For /dev/ttyS2, use ttyS2. Mind the caps... as always.

Add a user.

Reboot:

# shutdown -r now

Try to start hylafax:

# /etc/init.d/hylafax start

You will get some errors about one file being newer than the other. my the newer file over the older one. Repeat 3 times.

Once you can start it successfully, reboot:

# shutdown -r now

Now you users can access the fax server login at http://<faxhostname>.