

Handout: Setting up a server at your home

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1 Prerequisites

- One PC with Debian Sarge, connected to network
- A (fixed) IP, assume it is 192.168.123.234
- One or more DNS mappings to that IP

2 Apache

- From Debian, install Apache 2.0 with
`apt-get install apache2`
- You may also install PHP, MySQL, ...
 - Helper command: `apt-cache search [keyword]`
- After installing Apache 2.0, go to `/etc/apache2/sites-available/`
 1. You see a file named “`default`”
 2. Edit this file, from the first line, change “`NameVirtualHost *`” into
`NameVirtualHost 192.168.123.234`
 3. Then change `<VirtualHost *>` into `<VirtualHost 192.168.123.234>`
 4. Make sure the following lines are inside the `VirtualHost` block:
`DocumentRoot /var/www/jail/`
`ServerName 192.168.123.234`
 5. Afterwards, add the suitable options into the configuration file. Then it is done.
- From here, you finished your first “virtual host”, the next one is done in the following way:
 1. In `/etc/apache2/sites-available/` create a file, for example, “`site1`”
 2. Edit the file, with at least the following contents:
`<VirtualHost name1.example.com>`
`ServerName name1.example.com`
`DocumentRoot /var/www/webpageA/`
`</VirtualHost>`
 3. Go to `/etc/apache2/sites-enabled/`, you see a symbolic link named `000-default`
 4. Create another link for `site1`:
`ln -s ../sites-available/site1 001-firstweb`
 5. Never forget to put in the web page files in `/var/www/webpageA/` for this web site.
 6. Repeat the above for other (virtual host) web sites
- Once you have finished, reload the configuration by
`/etc/init.d/apache2 restart`

3 FTP

- The recommended system is vsftpd
- FTP is based on system login name, so no virtual hosting is available
- Recommended alternative: SSH (SFTP)
- Recommended Windows clients:
 - winscp (<http://winscp.sourceforge.net/>)
 - FileZilla (<http://filezilla.sourceforge.net/>)