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Installing Apache2, PHP4 and MySQL

Installing Apache, PHP and MySQL is very simple - if the following steps are adhered to.

1. Install MySQL:

```
apt-get install mysql-server mysql-client libmysqlclient12-dev
Not sure about requiring libmysqlclient12-dev, but will check out.
```

2. Install Apache2 (see <http://www.debianhelp.co.uk/apache2.htm>):

```
apt-get install apache2
apt-get install libapache2-mod-php4 php4-cli php4-common php4-cgi
apt-get install php4-mysql
```

You will also have to symlink mods_available/php.* to /mods_enabled/php.*

```
cd /etc/apache2/mods_enabled
ln -s /etc/apache2/mods_available/php4.conf php4.conf
```

Apache2 SSL & Virtual Hosting

Apache SSL should be installed already with Previous Packages

Look and see if ssl.conf and ssl.load are in /etc/apache2/mods-available

Symlink them into mods-enabled:

```
chdir /etc/apache2/mods-enabled
ln -s /etc/apache2/mods-available/ssl.conf ssl.conf
```

Edit /etc/apache2/ports.conf and Add in:

```
Listen 443
```

Restart Apache and that Should be it working. To use SSL - it must be added into the Vhosts in sites-enabled
Two main lines to add for SSL Engine:

```
SSLEngine On
SSLCertificateFile /etc/apache2/ssl/apache.pem
```

To make the SSL Cert - Apache has a built-in tool :-)

```
chdir to /etc/apache2/ssl and run
```

Apache_2_&_SSL_-_PHP4_-_MySQL_4.1

```
apache2-ssl-certificate
apache2-ssl-certificate -days 365 //generate for 365 days
```

This tool is no longer in Debian Etch ;-(Here is how instead:

```
openssl req -x509 -days 365 -newkey rsa:1024 -keyout hostkey.pem -nodes -out hostcert.pem
cat hostkey.pem >> hostcert.pem
mv hostcert.pem apache.pem
```

Onto Configing Vhosts

1. Default Apache:

```
NameVirtualHost kartbuilding.net:80
<VirtualHost kartbuilding.net:80>
//insert code as Normal
</VirtualHost>

NameVirtualHost kartbuilding.net:443
<VirtualHost kartbuilding.net:443>
//insert code as Normal; same as above
SSLEngine On
SSLCertificateFile /etc/apache2/ssl/apache.pem
</VirtualHost>
```

2. Vhost #1 - www.kartbuilding.net

```
<VirtualHost www.kartbuilding.net:80>
//same as normal
</VirtualHost>

<VirtualHost www.kartbuilding.net:443>
//as Normal same as above
SSLEngine On
SSLCertificateFile /etc/apache2/ssl/apache.pem
</VirtualHost>
```

3. Vhost #2 - misc.kartbuilding.net

```
<VirtualHost misc.kartbuilding.net:80>
//same as normal
</VirtualHost>
<VirtualHost misc.kartbuilding.net:443>
//as Normal same as above
SSLEngine On
SSLCertificateFile /etc/apache2/ssl/apache.pem
</VirtualHost>
```

Main Config got from HAL!

Info on Apache + SSL: <http://mattl.co.uk/apache2subversiondebianhowto.html>

Apache2 SSL Cert Generation

To make the SSL Cert - Apache has a built-in tool :-)

```
chdir to /etc/apache2/ssl and run
apache2-ssl-certificate --force -days x
```

More Info about Vhosts and Multiple Domain Names at:
<http://mathforum.org/~sasha/tech/apachevhosts.html>

Server Side Includes (ssi)

```
a2enmod include
//thats it. No htaccess file should be needed.
```

Quick Test Example:

```
index.shtml:
Main Page
<!--#include virtual="navbar.shtml" -->
```

```
navbar.shtml:
nav
```

Files called .shtml are by default parsed. A htaccess file can be used if you want the server to parse html files.

<http://httpd.apache.org/docs/2.2/howto/ssi.html>