LAMP Installation steps & Configuration steps

Installation:

1. Install Apache

      sudo apt-get install apache2

2. Install MySQL

      sudo apt-get install mysql-server

3. Install PHP

      sudo apt-get install php5 libapache2-mod-php5

4. Restart Server

      sudo /etc/init.d/apache2 restart

5. Check Apache

      http://localhost/

6. Check PHP

      php -r 'echo "\n\nYour PHP installation is working fine.\n\n\n";'

Configuration

Creating the first CGI script in Perl
Create the /var/cgi-bin directory

      mkdir /var/cgi-bin
and create a file called /var/cgi-bin/echo.pl with the following content:

```
#!/usr/bin/perl
use strict;
use warnings;
print qq(Content-type: text/plain\n\n);
print "hi\n";
```
Make the file executable by

      chmod +x /var/cgi-bin/echo.pl
and run it on the command line:
      /var/cgi-bin/echo.pl
It should print:

Content-type: text/plain
hi

Configure Apache to serve CGI files
pen the configuration file of Apache /etc/apache2/sites-enabled/000-default.conf
It has the following in it with a bunch of comments between the lines:

```
<VirtualHost *:80>
     ServerAdmin webmaster@localhost
     DocumentRoot /var/www

     ErrorLog ${APACHE_LOG_DIR}/error.log
     CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

Add the following lines after the DocumentRoot line:

```
ScriptAlias /cgi-bin/ /var/cgi-bin/
     <Directory "/var/cgi-bin">
          AllowOverride None
          Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch
          Require all granted
     </Directory>
```

Now you should have:

```
<VirtualHost *:80>
     ServerAdmin webmaster@localhost
     DocumentRoot /var/www

     ScriptAlias /cgi-bin/ /var/cgi-bin/
     <Directory "/var/cgi-bin">
          AllowOverride None
          Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch
          Require all granted
     </Directory>

     ErrorLog ${APACHE_LOG_DIR}/error.log
     CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```


ls -l /etc/apache2/mods-enabled/ | grep cgi
ls -l /etc/apache2/mods-available/ | grep cgi
ln -s /etc/apache2/mods-available/cgid.load /etc/apache2/mods-enabled/
ln -s /etc/apache2/mods-available/cgid.conf /etc/apache2/mods-enabled/
ls -l /etc/apache2/mods-enabled/ | grep cgi
service apache2 reload