Dear Student,

Kindly see the instructions to complete Lab 1 (INT322) below. Once you complete the set up show it to me or to my trusty Lab Assistant in Lab.

**Instructions for Lab 1**

**Lab 1: Configuring Apache and PHP on Zenit (3 Marks)**

1. Make a directory in tmp : **mkdir /tmp/int322\_999x99**
2. Copy the source of the application into the new directory or directly download to the directory (apache 2.2.29.tar.gz <http://httpd.apache.org/download.cgi#apache22> / php 5.6.8 <http://php.net/get/php-5.6.8.tar.gz/from/a/mirror>)

             Make sure to have both files in /tmp

            /tmp is a temporary invisible directory in zenit

1. Uncompress zipped files : **tar zxvf httpd-2.2.27.tar.gz**  
                                            **tar zxvf php-5.5.16.tar.gz**
2. Make a directory for apache in your zenit account : **mkdir ~/apache**
3. Execute following commands for setting up apache server:

**cd httpd-2.2.27  
./configure --prefix=/home/int322\_999x99/apache –enable-so**

**make**  
**make install**

1. Execute following commands for setting up php :

**cd php-5.5.16  
./configure --with-apxs2=/home/int322\_999x99/apache/bin/apxs –with-mysqli --prefix=/home/int322\_143d25/apache  
make  
make install**

1. Move into apache directory in your zenit account : **cd ~/apache**
2. Change file mode : **chmod 711 cgi-bin**  
                                  **chmod 700 bin build conf include logs modules**
3. Make changes to httpd.conf file : **vi /conf httpd.conf (or use any text editor)**

**(change listen directive to the port number which can be found in ~/ports.txt or on** [**https://zenit.senecac.on.ca/info/portmap.html**](https://zenit.senecac.on.ca/info/portmap.html)**)**

And add :vils  
 **<FilesMatch \.php$>  
 SetHandler application/x-httpd-php  
 </FilesMatch>  
 <FilesMatch "\.phps$">  
 SetHandler application/x-httpd-php-source  
 </FilesMatch>**

And Modify under:

**<Directory "/home/int322\_151a20/apache/htdocs">**

**AllowOverride None → AllowOverride AuthConfig Limit**

1. Start apache : **./bin/apachectl start**
2. Go to: **zenit.senecac.on.ca:[port number]**
3. Test apache server : **create test.php in htdocs directory and add : <?php phpinfo(); ?>**

**zenit.senecac.on.ca:[port number]/test.php**

To connect into mysql from zenit:

* + 1. login to zenit account
    2. enter: **mysql -u int322\_999x99 -p -h db-mysql.zenit**
    3. enter to change database: **use int322\_999x99**

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Best of Luck

Professor James