

Configuring Virtual Hosts

vi /usr/local/etc/apache/httpd.conf

Edit the httpd.conf file and find the line

#include etc/apache22/extra/httpd-vhosts.conf

and UNcomment it:

Include etc/apache22/extra/httpd-vhosts.conf

Now edit /usr/local/etc/apache22/extra/httpd-vhosts.conf to define the virtual hosts.
Here YOURDOMAIN should be replaced with your name as in the DNS exercise.

Find the line:

NameVirtualHost *:80

And REMOVE everything that comes after (From "VirtualHost example:" all the way to the end of the file).

Now, add:

```
<VirtualHost *:80>  
ServerAdmin webmaster@YOURDOMAIN.ws3.conference.sanog.org  
DocumentRoot /home/sanog/www  
ServerName www.YOURDOMAIN.ws3.conference.sanog.org  
</VirtualHost>
```

```
<Directory /home/sanog/www>  
Order deny,allow  
Allow from all  
</Directory>
```

Save the file and exit.

Now create the directory "name" in the "sanog" home directory.

```
$ cd /home/sanog/  
$ mkdir www
```

Note: We need the "Allow from all" permission above, because by default the security permissions in Apache default to denying access to anything not inside the normal document root (/usr/local/www/apache2/data). Therefore we need to allow directory access for apache outside the Document root.

Finally, let's add a very simple web page to test our website:

```
edit /home/sanog/www/index.html
```

<HTML>hello, world!</HTML>

Now, try to access:

<http://www.YOURDOMAIN.ws3.conference.sanog.org/>

You now have 2 different sites on your machine:

<http://www.YOURDOMAIN.ws3.conference.sanog.org/> → /home/sanog/www/

<https://www.YOURDOMAIN.ws3.conference.sanog.org/> → /usr/local/www/apache2/data

Notice that the httpS site is pointing in a different location from your normal http site.

To fix this, edit the file /usr/local/etc/apache22/extra/httpd-ssl.conf, and change "DocumentRoot" from:

DocumentRoot "/usr/local/www/apache22/data"

to

DocumentRoot "/home/sanog/www"

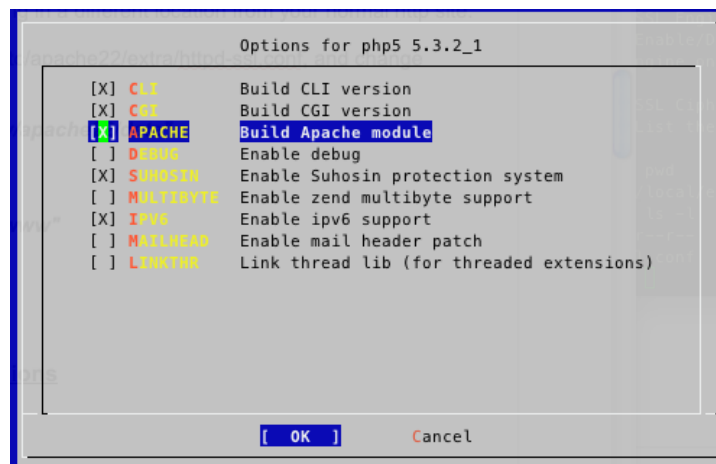
Then restart apache – check your websites

Installing PHP & PHP Extensions

```
$ cd /usr/ports/lang/php5
```

```
$ make install
```

You will be presented with a menu like this:



* Select the option "Build Apache Module option" (move down with arrow, press space)

* Now use the TAB key to select "OK" then press return.

* It will take a little while to compile the PHP package

Let's copy the default configuration file for PHP and change it:

```
# cp /usr/local/etc/php.ini-production /usr/local/etc/php.ini
```

Then edit `/usr/local/etc/php.ini`, and find the section:

```
[Date]
; Defines the default timezone used by the date functions
; http://php.net/date.timezone
```

and add the line:

```
date.timezone = 'Asia/Thimbu';
```

save the file and exist.

Once its completes, proceed to add the following into the apache httpd.conf file to enable PHP in apache

```
# vi /usr/local/etc/apache22/httpd.conf
```

Find directory index as below and add the index.php

DirectoryIndex index.html index.htm [index.php](#)

Also find the Addtype section and add the 2 lines below

```
AddType application/x-httpd-php .php
AddType application/x-httpd-php-source .phps
```

(Just before the `</IfModule>` line)

And now restart the apache.

Test PHP installation

Create PHP test page

```
$ vi /home/sanog/www/test.php
```

```
<?php
$hostname = gethostbyaddr($_SERVER['REMOTE_ADDR']);
echo "Your IP Address is $hostname";
?>
```

Now open `http://www.YOURDOMAIN.ws3.conference.sanog.org/test.php` from browser