How to Install Apache Web Server on FreeBSD9.x with SSL and php support

This tutorial uses version 2.2.21.

Hope your station is updated with the latest portsnap
if not please fetch the latest snap, extract and install
follow this guide to update your freeBSD box

After updating the ports Change to the apache22 port directory and install it
*# **cd /usr/ports/www/apache22/***
*# **make install clean***

*If everything went on successfully great, if not try **make reinstall clean** to reinstall the package*

*Edit **ee /usr/local/etc/apache22/httpd.conf***
*Find and edit the **BOLD TEXT**.*
`ServerAdmin` **`postmaster@training.co.tz`**

`ServerName` **`www.training.co.tz`**`:80`

`# Various default settings uncomment the line like below`

`Include etc/apache22/extra/httpd-default.conf`

`# Secure (SSL/TLS) connections uncoment the line like below`

`Include etc/apache22/extra/httpd-ssl.conf`

Create SSL certificate for Apache:
*# **mkdir -p /etc/ssl/apache***
*# **cd /etc/ssl/apache***
*# **openssl genrsa -des3 -out server.key 1024***
*# **openssl req -new -key server.key -out server.csr***
*# **openssl x509 -req -days 365 -in server.csr -signkey server.key -out server.crt***

Remove SSL passphrase so that you're not asked to enter a password whenever you start apache
*# **cd /etc/ssl/apache***
*# **cp server.key server.key.original***
*# **openssl rsa -in server.key.original -out server.key***

Optionally we can Protect our Apache key/crt files, but for a production machine its strongly recommended to restrict access to the directory by issuing the following command
*# **chmod 400 /etc/ssl/apache/*****

*Edit */usr/local/etc/apache22/extra/httpd-default.conf* file:*
*Find and edit the **BOLD TEXT.***

`ServerTokens ` **`Prod`**

`ServerSignature ` **`Off`**

*Edit */usr/local/etc/apache22/extra/httpd-ssl.conf* file:*
`ServerName ` **`www.training.co.tz`**`:443`

`ServerAdmin ` **`postmaster@training.co.tz`**

`SSLCertificateFile "/etc/ssl/apache/server.crt"`

`SSLCertificateKeyFile "/etc/ssl/apache/server.key"`

*Edit */etc/rc.conf* file, add startup script to make apache start up automatically on reboot*
apache22_enable="YES"

Start apache22
 # /usr/local/etc/rc.d/apache22 start

Test apache22 by visiting your server ip address
*"**http://192.168.0.x/**" or secured "**https://192.168.0.x/**"*

"It Works!"

Congratulations!!!   Everything is working fine like expected, If you don't get the above message, be sure to check your logs to find out if there are any errors.

*The logs are located in **"/var/log/httpd-*"** If you don't find any errors on the logs try to check if you have followed the correct procedures from the top of this tutorial*

Installation of php and enable it on apache web server
This tutorial uses version 5.4.0.

 # cd /usr/ports/lang/php5
 # make config
*Make sure "**APACHE**" is selected then press enter*

 # make install clean

*Copy */usr/local/etc/php.ini-production* to */usr/local/etc/php.ini* file:*
#cp /usr/local/etc/php.ini-production /usr/local/etc/php.ini
#chmod 644 /usr/local/etc/php.ini
*Edit */usr/local/etc/php.ini* file:*

*Find and edit the **BOLD TEXT.***

```
;;;;;;;;;;;;;;;;;;;;;;;;;
; Paths and Directories ;
;;;;;;;;;;;;;;;;;;;;;;;;;
; UNIX: "/path1:/path2"
```

`include_path = "."`

```
;
; Windows: "\path1;\path2"
;include_path = ".;c:\php\includes"
```

*Edit Apache and Enable php function **/usr/local/etc/apache22/httpd.conf***
*Find and edit the **BOLD TEXT.***

```
<IfModule dir_module>

    DirectoryIndex index.html index.php index.php5

</IfModule>

<IfModule mime_module>

    TypesConfig etc/apache22/mime.types

    AddType application/x-compress .Z

    AddType application/x-gzip .gz .tgz

    AddType application/x-httpd-php .php

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

</IfModule>
```

Restart Apache:
#apachectl restart

*Create and edit **/usr/local/www/apache2/data/phpinfo.php** file*
make sure the content of the files is as below

<?php

phpinfo();

?>

"http://192.168.0.x/phpinfo.php" or secured "https://192.168.0.x/phpinfo.php"

If you get the phpinfo page then php has been installed and enabled on apache22 correctly