

Install Apache Server

Synopsis:

The Apache HTTP Server is the number one HTTP server on the Internet.

I. Installation

Apache Server is included in the FreeBSD Ports.

```
#  
# cd /usr/ports/www/apache24 && make install clean  
#
```

Use the default compile options:

Now the actual installation will proceed.

The compiler and installation process takes around 20 minutes to install the program on the Celeron 1.6G system.

II. Configuration

1. Add the start up to the rc.conf file:

```
#  
# echo 'apache24_enable="YES"' >> /etc/rc.conf  
#
```

2. Load the HTTP Accept Filter for FreeBSD kernel

In /boot/loader.conf add:

```
#  
# echo 'accf_http_load="YES"' >> /boot/loader.conf  
#
```

Manually load kernel module:

```
#  
# kldload accf_http  
#
```

3. Apache Configuration in httpd.conf:

Apache uses a configuration file that must be manually edited for your own customization.

```
#  
# cd /usr/local/etc/apache24  
# mv httpd.conf httpd.conf.original  
# cp httpd.conf.original httpd.conf  
# ee httpd.conf  
#
```

find: ServerAdmin webmaster@example.com

(put in the web admin's email address, like webmaster@'yourdomain')

find: ServerName www.example.com

(put in your server's name, like www.'yourdomain'. If you do not have a registered DNS, use the server's IP address here.)

find: .htaccess AllowOverride None

(default, but if you want to use .htaccess files, change 'None' to 'All')

find: DirectoryIndex index.html

add in order; index.php index.htm index.html

For PHP support add the next lines at the end of file:

```
<FilesMatch "\.php$">
    SetHandler application/x-httpd-php
</FilesMatch>
<FilesMatch "\.phps$">
    SetHandler application/x-httpd-php-source
</FilesMatch>
```

If server doesn't answer to DNS by name:

comment out (place pound sign at start of configuration line):

```
#LoadModule unique_id_module libexec/apache24/mod_unique_id.so
[ESC] and save httpd.conf.
```

III. Startup the server and confirm:

```
#
# service apache24 start
# tail -10 /var/log/httpd-error.log
[Mon Jul 03 15:04:43.106306 2020] [mpm_prefork:notice] [pid 91155] AH00163:
Apache/2.4.26 (FreeBSD) -- resuming normal operations
#
```

IV. Test

Open a browser and try to browse on the web server:

location= "http://your server's IP address/"

The default Apache24 home page should display the **"It Works!"** message.

To locate the server's root;

```
#
# cd /usr/local/www/apache22/data
#
```

V. Tuning

For faster downloads, enable compression:

in the httpd.conf file,

Enable these three load modules

```
LoadModule deflate_module modules/mod_deflate.so
LoadModule headers_module modules/mod_headers.so
LoadModule filter_module modules/mod_filter.so
```

find the Directory section

```
<Directory "/usr/local/www/apache24/data/">
```

put these lines just before </Directory>:

```
AddOutputFilterByType DEFLATE text/html
DeFlateCompressionLevel 9
```