Table Of Contents

nixCraft: Linux Tips, Hacks, Tutorials, And Ideas In Blog Format
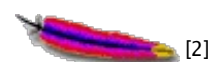http://www.cyberciti.biz/

Home > Faq > Apache

FreeBSD Install and Configure Apache Web Server

Posted by Vivek Gite <vivek@nixcraft.com>

Q. How do I install and configure Apache web server under FreeBSD 7.x operating systems?

A. FreeBSD comes with various versions of Apache web servers:

=> Apache 1.3
=> Apache 2.0
=> Apache 2.1
=> Apache 2.2

Step # 1: Update FreeBSD ports collection

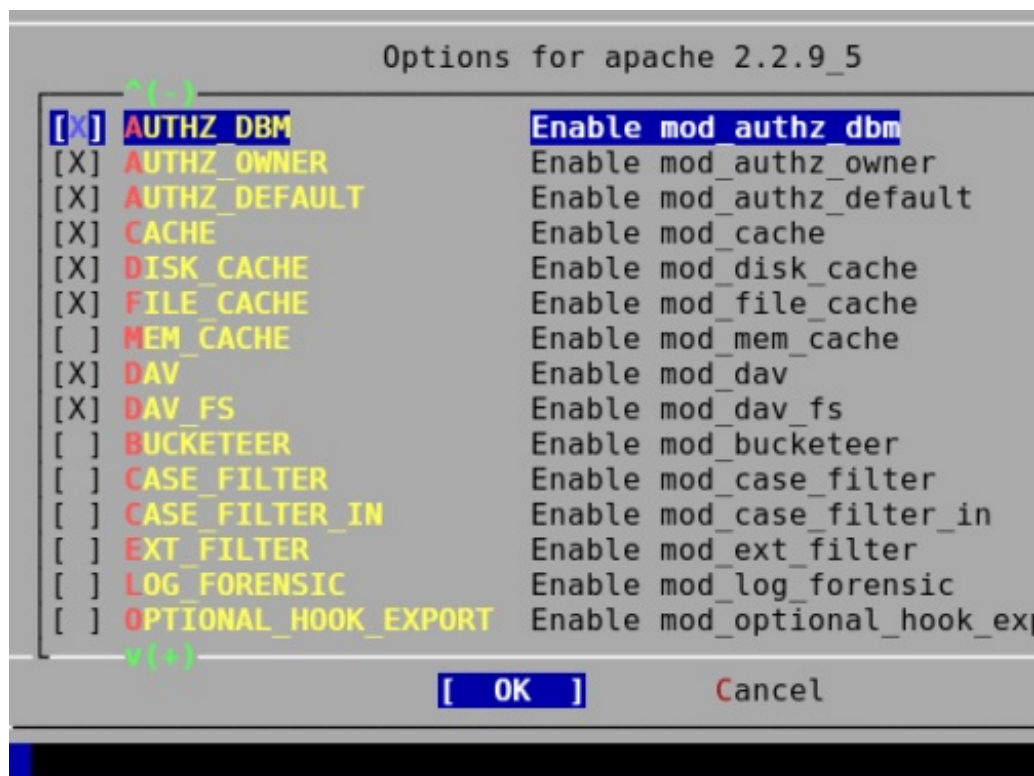Type the following command to update FreeBSD ports [3] collection:

```
# portsnap fetch update
```

Step # 2: Install Apache Web Server

Type the following commands:

```
# cd /usr/ports/www/apache22/
# make install clean
```

Select required options:

[4]

Fig.01: FreeBSD Apache v2.2 Config Options

Step 3: FreeBSD Configure Apache

Quick facts about Apache version 2.2 under FreeBSD:

1. Default HTTP port: **80**
2. Default HTTPS (SSL) port: **443**
3. Default DocumentRoot directory: **/usr/local/www/apache22/data/**
4. Default cgi-bin directory: **/usr/local/www/apache22/cgi-bin/**
5. Default Error Log File: **/var/log/httpd-error.log**
6. Default Access Log File: **/var/log/httpd-access.log**
7. Default suexec log (if compiled with suexec): **/var/log/httpd-suexec.log**
8. Default configuration file directory:**/usr/local/etc/apache22/** and **/usr/local/etc/apache22/extra/**
9. Default configuration file: **/usr/local/etc/apache22/httpd.conf**

Turn on Apache service

Type the following command to turn on Apache22 service:

```
echo 'apache22_enable="YES"' >> /etc/rc.conf
```

Configure httpd.conf

Open httpd.conf file:

```
# cp /usr/local/etc/apache22/httpd.conf /root/httpd.conf.bak
# vi /usr/local/etc/apache22/httpd.conf
```

Bind Apache to specific IP addresses and/or ports, instead of the default. Let us bind to IP address called 202.4.2.1 and port 80:

```
Listen 202.4.2.1:80
```

Set your email address:

```
ServerAdmin vivek@nixcraft.com
```

Set servername (FQDN) such as www.nixcraft.com:

```
ServerName www.nixcraft.com
```

Save and close the file.

Start Apache server

To start Apache server v2.2, enter:

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

Verify that port 80 is opened:

```
# sockstat -4 | grep :80
```

Open port 80 using PF firewall

> ⚠ **WARNING!** These examples may block access to your computer if not executed properly. If you are configuring FreeBSD and Apache first time, I strongly recommend skipping this step.

PF is OpenBSD firewall and available under FreeBSD. You need to configure pf using /etc/pf.conf file. Add following line to your /etc/pf.conf file:

```
pass in on $ext_if proto tcp from any to 202.4.2.1 port 80 flags S/SA synproxy state
```

Save and close the file. Reload pf firewall:

```
# /etc/rc.d/pf reload
```

Test your new setup

Fire a webbrowser and type your domain name such as www.nixcraft.com.

> 4000+ howtos and counting! Want to read more Linux / UNIX howtos, tips and tricks? Subscribe to our daily email newsletter or weekly newsletter to make sure you don't miss a single tip/tricks. Alternatively, subscribe via RSS/XML feed.

Article printed from Frequently Asked Questions About Linux / UNIX: **http://www.cyberciti.biz/faq/**

URL to article: **http://www.cyberciti.biz/faq/freebsd-apache-web-server-tutorial/**

URLs in this post:

[1] Image: **http://www.cyberciti.biz/faq/category/freebsd/**
[2] Image: **http://www.cyberciti.biz/faq/category/apache/**
[3] update FreeBSD ports: **http://www.cyberciti.biz/tips/howto-keep-freebsd-system-upto-date.html**
[4] Image: **http://www.cyberciti.biz/faq/wp-content/uploads/2008/10/freebsd-apache22-options.png**