


```
Fetching ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6.2-release/All/expat-2.0.0_1.tbz...
Fetching ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6.2-release/All/perl-5.8.8_1.tbz... D
[snip]
```

To run apache www server from startup, add apache22_enable="YES" in your /etc/rc.conf. Extra options can be found in startup script.

ÓϗíãBüòϗ: Æí ÷ñϗóέííðíεãBóã íέα “ãðBóϗιϗ” Ýεãíóϗ ðïò FreeBSD (6.2, 6.3, 7.0, εέð. ðïò ãáíέέÜ ðíñããBóã íá ããεáóáóðPóããã áðü CD-ROM) ϗ áíóíεP pkg_add -r εá εáóããÜóãε ðá ðáεÝóá ðïò ððέÜ ÷ðϗέáí ãέα áððP ðϗ óðãεãéñéíYίϗ Ýεãíóϗ. Óá ðáεÝóá áððÜ Bóüð ãáí ðãñεÝ÷íóí ðεð ðεÝíí ðãεãóðãBãð ãεãüóãεð ðüí ãðãñíãñí. ðíñããBóã íá ÷ñϗóέííðíεPóããã ðϗí ðãðããεϗðP ðãñεãÜεéííóíð PACKAGESITE ãέα íá ðãñãεÜíøããã áððP ðϗí ðñíãðéεããíYίϗ óóíðãñεóíñÜ. Æέα ðãñÜããεãíá, εÝóííóáð ðϗí PACKAGESITE óðϗí ðéíP ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6-stable/Latest/ εá εáóããÜóããã ðá ðéí ðñüóóããã ðáεÝóá ðïò ððÜñ÷íóí ãέα ðϗ óáεñÜ 6.X.

ðíñããBóã íá ãέαãÜóããã ðãñεóóüðãñá ãέα ðεð ãεãüóãεð ðïò FreeBSD óóí Üñεñí ÆðéεÝãííóáð ðϗ ÓúóðP ãέα ÆóÜð ãεãíóϗ ðïò FreeBSD (http://www.FreeBSD.org/doc/en_US.ISO8859-1/articles/version-guide/).

Æέα ðãñεóóüðãñãð ðϗεñíóíñBãð ó÷ãóεéÜ ðá ðá ðáεÝóá, ðãñãεãéíYíá ãεããÜóðã ðϗí ãíüϗϗóá 4.4 óóí Æã÷ãéñBãéí ðïò FreeBSD: ×ñϗóέííðíεPíðãð ðí Óýóðϗíá Packages (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/packages-using.html).

3.2 Ports

ϗ ãáýðãñϗ ðYέíãüð ãέα ðϗí ããεãðÜóðãóϗ ãðãñíãñí ðóí FreeBSD ãBíáε ϗ ÓðεéíãP ðüí Ports. ϗ ÓðεéíãP ðüí Ports ãBíáε Ýíá ðεãBóéí εãéðíðñãéPí ðíð ãðíðãεãBóãé áðü Makefiles εáε ãñ÷ãBá ãεãóíñPí (patches) ðá ðíBã Ý÷íóí ãϗíεíðñãεãB ãεãééÜ, Bóðã íá ãBíáε ãóíãðP ϗ ããεãðÜóðãóϗ ãεÜóíñüí ãðãñíãñí ðóí FreeBSD áðü ðíð ðϗããñí εPãééá ðíðð. ¼ðãí ããεãééóðÜóá Ýíá port, ðí óýóðϗíá εá εáóããÜóãε ðíð ðϗããñí εPãééá, εá ãðãñíüóãé üεãð ðεð ãðãéóíYíãíãð ãεéããÝð ÷ñϗóέííðíεPíðãð ðá patches, εá ðãðããεüððBóãé ðíð εPãééá, εáε ðÝεíð εá ããεãðãóðPóãε ðϗí ãðãñíãñP. Æá ãεíεíðεPóãé ðϗí Bãέα ãεããεãóBá εáε ãέα ðíεããBðíðã ðð÷ñí ãíãñðíãíá ðñíãñÜíããã.

ðíñããBóã íá ãñãBóã ðϗí ÓðεéíãP ðüí Ports (ϗ ðíBã ðãñεéÝð ðíñÝð ãíãóÝñãããé εáε ðð “ãÝíóñí ðüí ports”), ðóíí εáðÜεéíã /usr/ports. Æððü ãÝããεá ðñíüðíεÝóãé ððé ããεãðãóðPóããã ðϗí ÓðεéíãP ðüí Ports εáðÜ ðϗ ãεÜñεãéá ðϗð ããεãðÜóðãóϗ ðïò FreeBSD. Æí ããí ðí Ý÷ããã εÜíãé, ðíñããBóã íá ðϗí ðñíóεÝóããã áðü ðí CD ããεãðÜóðãóϗ ðá ðϗí ãñPεãéá ðïò sysinstall(8) P íá ðϗí εáóããÜóããã áðü ðíðð ãñðϗϗãðϗðÝð ðïò FreeBSD ÷ñϗóέííðíεPíðãð ðϗí áíóíεP csup(1) P ðϗí áíóíεP portsnap(8). ðíñããBóã íá ãñãBóã εãððñãñãBð ðãϗãBãð ãέα ðϗí ããεãðÜóðãóϗ ðϗð ÓðεéíãPð ðüí Ports ðóϗí ãíüϗϗóá 4.5.1 (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/ports-using.html) ðïò ãã÷ãéñεãñü.

ϗ ããεãðÜóðãóϗ ãíüð port ãBíáε ãáíέέÜ ðüóí ãðεP ðüóí ðí íá ãéóÝεããã ðóíí εáðÜεéíã ðïò εáε íá ðãéíPóããã ðϗí ãεããεãéãóBá ðãðãεPððéóϗð. Óóí ãεüεíðéí ðãñÜããεãíá ãBíããé ããεãðÜóðãóϗ ðïò **Apache 2.2** áðü ðϗí ÓðεéíãP ðüí Ports:

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

Íá ðϗí ðáíóééü ðεãñíÝéðϗíá ðϗð ÷ñPóϗð ports ðóϗí ããεãðÜóðãóϗ εíãéóíεéíY ãBíáε ϗ εéãíüϗϗóá ðñíóãñíãñPð ðüí ãðééíãñí ããεãðÜóðãóϗ. Æέα ðãñÜããεãíá, ððãí ããεãééóðÜóá ðíð **Apache 2.2** áðü ðá ports ðíñããBóã íá ãíãñãñíεPóããã ðϗí ãðééíãP **mod_ldap** εÝóííóáð ãðεPð ðéíP ðóϗ ðãðããεϗðP WITH_LDAP ðïò make(1):

Æέαòβ ððÛñ÷ìò äÿì ðìðìèáóβãò ãέα ðá scripts ãέέβίϗόϗò ðùì ððçñãóέβì; Óá scripts ðìò ãñβóέìíðáέ ððìí éáðÛέìãì /etc/rc.d/ ãβìáέ ãέα ãòãñìããÝð ðìò ãíPέìòì ððì “ãáóέέü” óýóðϗìá. (Æέα ðãñÛããέãìá, ðέð cron(8), sshd(8), syslog(3), éáέ Ûέέãð.) Óá scripts ðìò ãñβóέìíðáέ ððìí éáðÛέìãì /usr/local/etc/rc.d/ ãβìáέ ãέα ãòãñìããÝð ðìò Ý÷ìò ããέáðáðóðáέãá ãðü ðìòð ÷ñPóðãò, ùðð ãέα ðãñÛããέãìá ì **Apache**, ðì **Squid**, è.è.ð.

Ðìέα ãβìáέ ϗ ãέáðìñÛ ìãðãÿ ðìò “ãáóέέÿ” ððððPìáðìð éáέ ðùì ãòãñìããPì ÷ñPóðϗ; Óì FreeBSD ãìáððýóðãðáέ ùð Ýìá ðεPñãð éãέðìòñãέέü óýóðϗìá. Ìã Ûέέã èüãέα, ì ðòñPìáð, ìέ ãέãέεìεPεãð ðìò ððððPìáðìð, ìέ ãáóέέÝð ãìòìεÝð (userland, ðá ðñìãñÛìíáðá ùððð ðì ls(1), cat(1), cp(1) èèð.), ãìáððýóðìíðáέ éáέ ãçìíóέãÿìíðáέ ìãεβ, ùð óÿñìε. Æððü ãìáðÝñãðáέ éáέ ùð “ãáóέέü” óýóðϗìá. Ìέ ãòãñìããÝð ðìò ããέãεβóðáìíðáέ ãðü ðìòð ÷ñPóðãò, ããì ãíPέìòì ððì “ãáóέέü” óýóðϗìá, éáέ ðÝðìεãð ãβìáέ ãέα ðãñÛããέãìá ì **Apache**, ðì **X11**, ì **Mozilla Firefox**, èèð. Æððìÿ ðìò ãβãìòð ìέ ãòãñìããÝð, ããìέέÛ ããέãεβóðáìíðáέ ìã ðç ÷ñPóϗ ðçð ÓðέεìãPð ÐáέÝðùì éáέ Ports (article.html#SOFTWARE) ðìò FreeBSD. Æέα ìá ìã÷ññεãìò ãðü ðì ððüεìεðì “ãáóέέü” óýóðϗìá, ìέ ãòãñìããÝð ÷ñPóðϗ ððìPεùð ããέãεβóðáìíðáέ ðá ððìεáðáέüìãìò ðìò /usr/local/.ðóέ ðá ãέðáέÝóέìá ðñìãñÛìíáðá ðùì ÷ñçóðPì ãñβóέìíðáέ ððìPεùð ððìí éáðÛέìãì /usr/local/bin/, ðá ãìòβóðìε÷ã ãñ÷ãá ððèìβóãùì ðìòð ððìí éáðÛέìãì /usr/local/etc/, è.ì.è.

Ìέ ððçñãóβãò ãìãñãìðìεÿìíðáέ ìã ðçì ðñìòεPεç ìέáð ãããñãóPð ðýðìò *μìíìáððçñãóβãð_enable="YES"* ððìí ãñ÷ãβì /etc/rc.conf (rc.conf(5)). Ñβìðã ìέá ìáðέÛ ððìí ãñ÷ãβì /etc/defaults/rc.conf ãέα ìá ããβðã ðέð ðñìãðέέìãÝð ðìò ððððPìáðìð. Ìέ ððèìβóáέð ðìò èÛìòìã ððìí ãñ÷ãβì /etc/rc.conf ððãñέó÷ÿìò Ýìáìóέ ðùì ðñìãðέέìãPì ãððPì. Æðβóçð, éáðÛ ðçì ããέáðÛóðáóç ðñüòεãðùì ãòãñìããPì, ããããέέεãβðã ùðέ ãέαÛóáðã ðçì ãìòβóðìε÷ç ðáèìçñβüóç ãέα ìá ãñãβðã ðùð ìá ãìãñãìðìεPóáðã ðð÷üì ó÷ãðέέÝð ððçñãóβãò.

Óì ãέüεìòεì ãðüòðáìíðáέ ãðü ðì ãñ÷ãβì /etc/rc.conf ãìãñãìðìεãá ðçì ððçñãóβã sshd(8) éáέ ðìí **Apache 2.2**. Æðβóçð éáέìñβεãέ ùðέ ì **Apache** éá ìãέέìPóáέ ìã ãìãñãìðìεçìÝìç ðç ãìòìáðüðçðá SSL.

```
# enable SSHD
sshd_enable="YES"
# enable Apache with SSL
apache22_enable="YES"
apache22_flags="-DSSL"
```

Æðü ðç ðέέãìP ðìò ìέá ððçñãóβã ãìãñãìðìεçεãá ððìí ãñ÷ãβì /etc/rc.conf, ìðìñãβðã ìá ðçì ìãέέìPóáðã ãðãðέãβãð ãðü ðç ãñãñìP ãìòìεPì (÷ññβð ìá ÷ñãέÛεãðáέ ìá ãðãìáέέέìPóáðã ðì óýóðϗìá óáð):

```
# /etc/rc.d/sshd start
```

Æì ìέá ððçñãóβã ããì Ý÷ãέ ãìãñãìðìεçεãá ððìí ãñ÷ãβì ãððü, ìðìñãβðã ìá ãìãìãέÛóáðã ðçì ãέέβίϗόϗ ðçð ãðü ðçì ãñãñìP ãìòìεPì ìã ðçì ãðέέìãP forcestart:

```
# /etc/rc.d/sshd forcestart
```

5 Ñÿέìέóç Æέéðÿìò

5.1 ÆέãðáóÝò Æέéðÿìò

Æìòβ ãέα ðì ããìέέü ãìããññέóðóέέü ðýðìò *ethX* ðìò ÷ñçóέìðìεãá ðì Linux ãέα ðçì ãìããìPñέóç ìέáð ãέãðáðPð ãέéðÿìò, ðì FreeBSD ÷ñçóέìðìεãá ùð ãìããññέóðóέέü ðì ùñìá ðìò ðñìãñÛìíáðìò ìãPαçóçð ãέìεìòεìÿìãñ ãðü Ýìá ãñέέü. Ç ãέüεìòεç Ýñìãð ãðü ðçì ãìòìεP ifconfig(8) ããβ÷ìáέ ãÿì èÛñðãð ãέéðÿìò Intel® Pro 1000 (ìã ãìããññέóðóέέÛ em0 and em1):

