



# 1 ÅéóáãùãƆ

Οι εαβιαίρ αζοδύ οίφβææέ οέδ æεάοινΎδ ιαδóáý οίθ FreeBSD éæέ οίθ Linux ιόοα ιΎοίε ι θñι÷÷ñçιΎíε ÷ñιιόαδ οίθ  
 Linux íá ιθñíýí ãñιáñíá íá θñιόáñιιόοίýí οόέδ ááóέέΎδ Ύííεάδ οίθ FreeBSD. θñüεæέοάé æéá íéá óá÷÷íεβ æέóáñüβ  
 οόι FreeBSD, éæέ ááí éá áíáóáñεýíλá óá óθ÷÷úí “οέέíοιόέέΎδ” æέάοινΎδ ιαδóáý ούι áýí οόόθçιιÜóúí.

Οι ε&βλ&α&ρ α&δ&ο&ι ο&δ&ι&ε&Υ&ο&α&ε υ&ο&ε Υ&÷&α&ο&α Πα&ε α&α&ε&α&ο&ο&ο&α&ε ο&ι FreeBSD. Α&ι α&α&ι Υ&÷&α&ο&α α&α&ε&α&ο&ο&ο&α&ε ο&ι FreeBSD Ρ  
 ÷&η&ε&Υ&ε&α&ο&α α&ιΡ&ε&α&ε ι&α ο&ε&ι α&ε&α&ε&α&ο&α α&α&ε&α&Υ&ο&α&ο&ε ο&ι&ο, δ&α&η&α&ε&α&ε&ι&γ&ι&α ι&α α&ε&α&Υ&ο&α&ο&α ο&ι ε&α&ο&Υ&ε&α&ε Α&α&ε&α&ε&ο&ο&ρ&ι&α&ο&α ο&ι  
 FreeBSD ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/install.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/install.html)) ο&ο&ι Α&α&÷&α&ε&η&β&α&ε&ι ο&ι&ο  
 FreeBSD.

## 2 Êâëýöç: Ääí õđŮñ÷ǎé Bash;

[illegible][illegible]

### 3 ĐáêÝóá éáé Ports: ĐñĩóèÝóĩĩóáo ãĩãéóĩéêü óoĩ FreeBSD

[illegible]

### 3.1 ĐấêÝôá

Όά θαέΎόά αβίαέ θñĩ-ĩãôãäëüôôéôĩÝĩãô äôãñĩãÝô, èã ëÝããĩ ôĩ áíôßóôĩé÷ĩ äéã ôĩ FreeBSD òüĩ äñ÷ãßüĩ .deb óã ôóóóßĩãôã Debian/Ubuntu éãé òüĩ äñ÷ãßüĩ .rpm óã ôóóóßĩãôã Red Hat/Fedora. Όά θαέΎόά äãéãëßóóãĩôãé ÷ñçôëüĩôĩéßĩôãô ôçĩ áĩôĩëP pkg\_add(1). Äéã äãñÜãäéãĩã, ç äëüëĩôèç áĩôĩëP äãéãééóóÜ ôĩñ **Apache 2.2**:

```
# pkg_add /tmp/apache-2.2.6_2.tbz
```

C ÷ ñÞóç ôçð ðáñāīŸôñîō - r iāçāāß ôçí pkg\_add(1) íá éāóāāŸōāé áðòùìāðā òùòì òì ðāēŸôì, Źòì éāé òèð āíāñðÞóāéð òïō. éāé íá òì āāēāðāóðÞóāé:

```
# pkg_add -r apache22
```

```

Fetchng ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6.2-release/Latest/apache22.tbz... Do

```

```

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.

**Όχι!Βυθός:** Αί ÷ η̇ςοείι̇ι̇τιέα̇β̇δ̇α̇ ιέα̇ “α̇δ̇β̇ό̇ς̇ι̇ς̇” Ύε̇α̇ί̇ό̇ς̇ ο̇ι̇ο̇ FreeBṠḊ (6.2, 6.3, 7.0, έ̇ε̇δ̇. δ̇ι̇ο̇ α̇α̇ί̇έ̇ε̇Ū̇ ι̇δ̇ι̇η̇α̇β̇δ̇α̇ ι̇ά̇ α̇α̇έ̇α̇δ̇α̇ο̇δ̇ρ̇α̇δ̇α̇ α̇δ̇Ū̇ CD-ROM) ς̇ α̇ί̇ο̇ι̇ε̇ṗ pkġ\_adḋ -ṙ ε̇ά̇ ε̇α̇δ̇α̇ȧŪ̇ο̇ά̇δ̇ α̇ά̇ δ̇α̇έ̇Ÿ̇ο̇ά̇ δ̇ι̇ο̇ ο̇δ̇ε̇Ū̇÷ο̇ς̇ε̇α̇ί̇ α̇ε̇α̇ α̇δ̇ο̇ṗ ο̇ς̇ ο̇δ̇α̇ε̇α̇η̇ε̇ι̇Ÿ̇ι̇ς̇ Ύε̇α̇ί̇ό̇ς̇. Ο̇α̇ δ̇α̇έ̇Ÿ̇ο̇ά̇ α̇δ̇ο̇Ū̇ β̇ο̇υ̇δ̇ α̇α̇ί̇ δ̇α̇ñ̇é̇Ÿ̇÷̇ι̇ο̇ί̇ ο̇ε̇δ̇ δ̇ε̇Ÿ̇ί̇ι̇ δ̇α̇ε̇ȧδ̇ο̇ȧβ̇δ̇ α̇ε̇ȧŷ̇ȯȧé̇ȯ ο̇υ̇ι̇ α̇δ̇ȧñ̇i̇i̇ȧṗi̇. ι̇δ̇ι̇η̇ȧβ̇δ̇ȧ ι̇ά̇ ÷̇ η̇ς̇ο̇εί̇ι̇̇ι̇̇τιέ̇ρ̇ȧδ̇ȧδ̇ ο̇ς̇ι̇ ι̇ȧδ̇ȧȧε̇ς̇δ̇ṗ δ̇ȧñ̇é̇ȧŸ̇ε̇i̇ȯί̇ȯί̇ δ̇ PACKAGESITĖ α̇ε̇ȧ ι̇ά̇ δ̇ȧñ̇á̇é̇Ÿ̇i̇ȯȧδ̇ȧ α̇δ̇ο̇ṗ ο̇ς̇ι̇ δ̇ñ̇i̇ȧδ̇ε̇é̇ȧi̇Ÿ̇ι̇ς̇ ο̇δ̇i̇δ̇ȧñ̇é̇ȯi̇ŷ̇i̇. Α̇ε̇ȧ δ̇ȧñ̇Ū̇ȧȧé̇ȧi̇ȧ, ε̇Ÿ̇ȯi̇i̇ȯá̇δ̇ ο̇ς̇ι̇ PACKAGESITĖ ο̇ό̇ς̇ι̇ ο̇é̇i̇ṗ <ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6-stable/Latest/> ε̇ά̇ ε̇ȧδ̇ȧȧŪ̇ο̇á̇δ̇ȧ α̇ά̇ δ̇é̇i̇ δ̇ñ̇ŷ̇ȯȧá̇δ̇ȧ δ̇ȧέ̇Ÿ̇ο̇ά̇ δ̇ι̇ο̇ ο̇δ̇Ū̇ñ̇÷̇ι̇ο̇ί̇ α̇ε̇ȧ ο̇ς̇ ο̇á̇é̇ñ̇Ū̇ 6.X.

Iðinaðað í áæááÜöäðä ðänéöüüðäñä äéä öéö äêäüöäéö öïð FreeBSD öôî Üñëñ ÄðéeYäííöáo öç ÖúöðP äéä ÄöÜð êäîóç öïð FreeBSD ([http://www.FreeBSD.org/doc/en\\_US.ISO8859-1/articles/version-guide/](http://www.FreeBSD.org/doc/en_US.ISO8859-1/articles/version-guide/)).

Άέά δάνεόουόαηάο δέçññοιηβδó ò÷âôééÛ ιά όά δαéÝόά, δάηάέαεγγία áéááÛόά όçí áíüòçόά 4.4 όòí Åã÷άénβáεí όιò FreeBSD: ×ñçόέιιðñéπíόάó όι Óýóðçιά Packages  
([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/packages-using.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/packages-using.html)).

## 3.2 Ports

Ç αáyóαñç Ýíεττáð ãεá ðçí áαεáðÕóðáαç áóáñιτáπι óðι FreeBSD áβίáε ç Óðεεττáβ ðυι Ports. Ç Óðεεττáβ ðυι Ports áβίáε Ýíá ðεάβóετ εάεοιτñαεπι ðιò áðιòáεáβóáε áðυ Makefiles εáε áñ÷ áβá áεáοιñπι (patches) óá ιðιβá Ý÷ιòι áçιειτñαçεáβ áεáεεÜ, πóðá ιά áβίáε áοιáðç ç áαεáðÕóðáαç áεÜοιñι áóáñιτáπι óðι FreeBSD áðυ οιι ðçáαβι επαέέα ðιòð. ¼ðáι áαεáεεóðÕá Ýíá port, ðι óýóóçιá εá εáðááÜóáε οιι ðçáαβι επαέέα, εá áóáñιυóáε υεáð ðεð áðáεοιγιáτáð áεεááÝð ÷ñçóειιðιεπíðáð óá patches, εá ιáðááευððóáε οιι επαέέα, εáε ðÝειð εá áαεáðáóðβóáε ðçí áóáñιτáβ. Εá áερειðεβóáε ðçí βáεá áεááεεáóβá εáε áεá ιðιεάáβðιðá ðð÷υι áíáñðιáιá ðñτáñÜιáðá.

Ἰδιῆῃῃῃῃ ἰᾶ ἁῇῃῃῃ ὁῃῃ Ὀῃῃῃῃῃῃ ὁῃῃ Ports (ῃ ἰῃῃῃῃ ἰᾶῃῃῃῃ ὁῃῃῃῃ ἰᾶῃῃῃῃῃῃῃ ῃᾶῃ ὁῃ “ᾶῃῃῃῃ ὁῃῃ ports”), ὁῃῃ ῃᾶῃῃῃῃ /usr/ports. Ἀῃῃῃ ᾶῃᾶῃῃ ῃῃῃῃῃῃῃῃῃ ὁῃῃ ᾶῃῃῃῃῃῃῃῃῃῃῃῃ ὁῃῃ Ὀῃῃῃῃῃῃ ὁῃῃ Ports ῃᾶῃῃ ὁῃ ᾶῃῃῃῃῃῃ ὁῃῃ ᾶῃῃῃῃῃῃῃῃῃ ὁῃῃ FreeBSD. Ἀῃ ᾶῃ ὁῃ ῃῃῃῃῃ ῃῃῃῃῃῃῃῃῃ ὁῃῃ ῃῃῃῃῃῃῃῃῃῃ ᾶῃῃ ὁῃ CD ᾶῃῃῃῃῃῃῃῃῃῃ ἰᾶ ὁῃῃ ᾶῃῃῃῃῃ ὁῃῃ sysinstall(8) ῃ ἰᾶ ὁῃῃ ῃᾶῃῃῃῃῃῃ ᾶῃῃ ὁῃῃῃ ᾶῃῃῃῃῃῃῃῃῃῃῃ ὁῃῃ FreeBSD ÷ῃῃῃῃῃῃῃῃῃῃῃ ὁῃῃ ᾶῃῃῃῃ csup(1) ῃ ὁῃῃ ᾶῃῃῃῃ portsnap(8). Ἰδιῆῃῃῃῃ ἰᾶ ἁῇῃῃῃῃ ῃᾶῃῃῃῃῃῃῃῃ ἰᾶῃῃῃῃ ᾶῃῃ ὁῃῃ ᾶῃῃῃῃῃῃῃῃῃ ὁῃῃ Ὀῃῃῃῃῃῃῃ ὁῃῃ Ports ὁῃῃ ᾶῃῃῃῃῃῃ 4.5.1 ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/ports-using.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/ports-using.html)) ὁῃῃ ᾶῃ ÷ ᾶῃῃῃῃῃῃ.

Ç ääëäöÜóóäóç áúüò port äßíäë ääíëëÜ öüüí äðëP uüí öí íá áéóÝëëäöä öüüí ëäöÜëíäí öüö ëäë íá íäëëíPóäöä öçí äëääëëäöBá íäöääëpöðëöçð. Öüí äëüëíöëí ðánÜääëíä äßíäöäë ääëäöÜóóäóç öüö **Apache 2.2** äðü öçí ÖöëëíäP öüí Ports:

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

já óçíáíóêéü ðëáííÝéôçíá ôçð ÷ ñÞóçð ports óçíí áâéáðÛóóáóç ëíáéóíééíý áßíáé ç ééáíúôçóá ðñíóáñííáÞò òùí áðééíáßí  
 áâéáðÛóóáóçð. Áéá ðáñÛáâéáíá, ùóáí áâéáééóóðÛóá òíí **Apache 2.2** áðú óá ports íðñíáßóá íá íáñáñíðíéÞóáðá ôçí  
 áðééíáß **mod ldap** èÝóííóáó áðéðò òéíÞ óóç íáðáâéçðÞ **WITH\_LDAP** òíð **make(1)**:

```
# cd /usr/ports/www/apache22
# make WITH_LDAP="YES" install clean
```

ἈέάᾱṪṵṵᾱ ὁῖῖ ᾱῖṵṵṵᾱ 4.5 ὁῖṵ Ἀᾱ÷ᾱῖῖᾱḂῖṵ ὁῖṵ FreeBSD, ×ḡṵṵῖṵῖῖῖῖᾱṵ ὁῖῖ Ports Collection ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/ports-using.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/ports-using.html)), ᾱῖᾱ ḡᾱῖῖṵṵṵᾱḡᾱḡᾱṵ ḡῖῖῖῖṵῖḡᾱḡᾱṵ ὁ÷ᾱṵῖṵ ἱᾱ ὁῖ ṪṵῖῖᾱḂ ὁῖῖ Ports.

### 3.3 Ports Þ óăēÝôă, ôé ðñÝðăé íă ÷ ñçóéïïðïéÞóù;

Ὁ ἀεὶ Ὑῶα ἀβρίαε ὁοῖ δὴ ἀαῖαδὲ εὐοῖα ἀδὲρ οὐ δὴν-ἰαδὲ εὐοῖα ὁοῖ Ὑῖα ports, Ὑῖα ἀβρίαε δὴ ἀεὶ οὐοῖα ὁοῖ Ὑῖα ἀδὲ εἰαδὲ αῖ  
 ἀβρίαε ἀδὲ εὐοῖα οὐδὲ P ὁ ἀεὶ Ὑῶα οὐοῖ αὐτὸ οὐ δὲ αῖαδὲ ἐπὶ ἀεὶ P αὐτὸ Ὑῶα ὁοῖ ἀεὶ Ὑῶα. Εὐὲ αῖ Ὑῶα Ὑ ÷ ἀεὶ ὁα  
 δὲ αῖ αῖ Ὑῶα ὁοῖ:

## ĐáêÝôá (Ýôïëìá àêôãëÝóéìá)

- [illegible]

## Ports (őçãáßïò êpäéêáo)

- [illegible]

[illegible]

#### 4 Αέεβίçόç ôĩõ ÓóóôΠιάôĩò: Ðĩõ αβίαέ ôá run-levels;

Οι Linux ÷ ηςοείηδιέαβ οι όύοόγια âêßίςόçð SysV, âη ηι FreeBSD ÷ ηςοείηδιέαβ οι ðánaäiόeäü όύοόγια âêßίςόçð BSD. Όοι όύοόγια init(8) όýðið BSD, ääi ððÛñ÷iðí run-levels, iýðä öi äñ÷âßi /etc/inittab. Áiðß äeä äððÛ, ç âêßίςόç ãeÝä÷âðäe äðü Ýiä script âêßίςόçð, öi rc(8). To script /etc/rc äeäÛÛæäe öi äñ÷âßi /etc/defaults/rc.conf êäe öi äñ÷âßi /etc/rc.conf äeä iä êäeîñßöäe ðiêäð ððçñäößäð ðñüêäeðäe iä iäêeîßiðí. Ië ððçñäößäð äððÝð iäêeîÛiä iä öç iäêðÝeäç öüi äiðßöiðe÷üi script âêßίςόçð ðið äñßöeîñöäe öóððð êäðäeüüiðð /etc/rc.d/ êäe /usr/local/etc/rc.d/. Öä scripts äððÛ äñiäe ðäñüüiäe iä öä scripts ðið äñßöeîñöäe öóð iä êäðÜeäi /etc/init.d/ öä öðððßiäðä Linux.

[illegible][illegible][illegible]

Οἱ ἀεὺεῖρεῖ ἀδὺοδᾶοῖᾶ ἀδὺ οἱ ἀν÷ᾶβι /etc/rc.conf ἀἰᾶᾶἰδῖεᾶβ ὁγῖ ὀδγᾶοᾶ sshd(8) ἐᾶε οἱ **Apache 2.2**. Ἀδβόγδ  
ἐᾶεἰᾶεᾶ ὡεῖ ἰ **Apache** ἐᾶ ἰᾶεῖᾶοᾶ ἰᾶ ἀἰᾶᾶἰδῖεᾶῖῖῖ ὁγ ᾶοῖᾶοὺδγᾶ SSL.

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

Áðũ òç óóéàĩÞ ðĩõ íéá òðçñåòßá áíáñãĩðĩéçèåß òôĩ áñ÷åß /etc/rc.conf, ìðĩñåßòå íá ôçĩ íåééĩÞóåòå åðåòèåßåò  
åðũ òç ãñåĩĩÞ áĩòĩëþĩ (÷ũñßò íá ÷ñæÛæåòå íá åðåíåééĩÞóåòå õĩ óýóóçιά óáo):

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

Áí íéá òðçñáòßá ááí Ý ÷ áé áíáññäíðíéçéáß óóí áñ ÷ áßí áóòü, ìðíñáßòá íá áíáíááéÚóáòá ôçí áêêßíçòç ôçò áðü ôçí áñáñíP áíòíèþí ìá ôçí áðééñáP forcestart:

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

## 5 Ñýèìéóç Äéeôýĩõ

## 5.1 ÄéåđáöÝò Äéeôýĩõ

Άϊὸβ ἀέα ὁἱ ἀαίεῦ ἀίᾱᾱῖῡῆεὸόεῦ ὄγῳῖο *ethX* θῖο ÷ ἡῗοεῖῖθῖεᾱβ ὁἱ Linux ἀέα ὁῗῖ ἀίᾱᾱῖῡῆεὸόεῦ ἱεᾱὸ ἀεᾱῖᾱὸβὸ ἀεέὸγῖο, ὁἱ FreeBSD ÷ ἡῗοεῖῖθῖεᾱβ ὡὸ ἀίᾱᾱῖῡῆεὸόεῦ ὁἱ ὡῖῡᾱ ὁῖο θῡῡᾱῡῡᾱὀῖο ἱᾱβᾱῗὸῗ ᾱεῖεῖοεῖγῖᾱῡ ᾱῖῡ ῒᾱ ᾱῡεῖῡ. Ç ᾱεῖεῖοεῗ ῒῖᾱὀ ᾱῖῡ ὁῗῖ ᾱῖὸῖᾱ ifconfig(8) ᾱᾱβ ÷ ἱᾱε ᾱῖ Ἐῒῡᾱὸ ἀεέὸγῖο Intel® Pro 1000 (ᾱ ᾱῖᾱᾱῖῡῆεὸόεῦ em0 and em1):

```
% ifconfig
em0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=b<RXCSUM, TXCSUM, VLAN_MTU>
    inet 10.10.10.100 netmask 0xffffffff00 broadcast 10.10.10.255
    ether 00:50:56:a7:70:b2
    media: Ethernet autoselect (1000baseTX <full-duplex>)
    status: active

em1: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=b<RXCSUM, TXCSUM, VLAN_MTU>
    inet 192.168.10.222 netmask 0xffffffff00 broadcast 192.168.10.255
    ether 00:50:56:a7:03:2b
    media: Ethernet autoselect (1000baseTX <full-duplex>)
    status: active
```

## 5.2 ÑõèìΒόάέò Äéãõèýíóãùí IP

Ιδρῆαβδᾶ ἰά ἀράεΥοᾶδᾶ ἰέα ἀεαγεοῖος IP οᾶ ἰέα ἀεᾶδᾶοP ἀεέοϣοῖ ἰᾶ ὁς ÷ ἡῖος ὁςδ ἀίοῖεPδ ifconfig(8). Ἄεᾶ ἰά ἀβῖᾶε ἰῖῖεῖς ὑοδούοῖ ᾶοδP ς ἀεεᾶᾶP, ἐᾶε ἰά ἰςῖ ÷ Ὑῖᾶοᾶε οᾶ εὙεᾶ ᾶδᾶῖᾶεεβῖς, ἐᾶ ὃνΥᾶε ἰά ὁςῖ ᾶᾶᾶεὙᾶᾶδᾶ οᾶῖ ᾶᾦ ÷ ᾶβῖ /etc/rc.conf. Ὀοῖ ἀεῖεῖοεῖ ᾶᾦᾦᾶᾶᾶᾶ ὁᾶβῖᾶοᾶε ς ἐᾶοᾶ÷ἡῖος ὃῖο ᾶᾶᾶᾶᾶᾶᾦᾦᾦ ὁῖ ὑᾦᾦᾶ ὃῖο ὃᾶῖᾶᾶᾶᾶᾶ (hostname), ὁςῖ ἀεᾶῖοῖος IP, ἐᾶεᾶδ ἐᾶε ὁςῖ ᾶᾦᾦᾶᾶᾶᾦᾦᾦ Ὑῖς ᾶῖς (defaultrouter):

```
hostname="server1.example.com"
ifconfig_em0="inet 10.10.10.100 netmask 255.255.255.0"
defaultrouter="10.10.10.1"
```

×ñçóëiïðiéΠóôâ ôçí áêüëiøëç êáôá÷þñçóç áéá íá êáëiñßóáôâ üôê iéá äéáðáöÞ éá êáiâÛiáé ñëëißóáèð iÝòù DHCP:

```
hostname="server1.example.com"
ifconfig_em0="DHCP"
```

## 6 Firewall

Όλοι Linux → ηνζοείηειάβθαέ οι **IPTABLES** οι ιθίβι θάνΥ → άε οδζήαόβαο firewall όά άδβθάάι δөнΠρίά. Οι FreeBSD θάνΥ → άε άδβόσο firewall ίΥού οιο δονΠρίά. Άέα όçi áηνβάάέα, οι FreeBSD θάνΥ → άε όηβά firewalls:

- IPFIREWALL ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/firewalls-ipfw.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/firewalls-ipfw.html))
- IPFILTER ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/firewalls-ipf.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/firewalls-ipf.html))
- PF ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/firewalls-pf.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/firewalls-pf.html))

[illegible]

**DánÜäëàìá áúò éáíuíá ôïð IPFW ðïð aðëônÝðäé áéoãñ÷ùìáíá äääñÝía ðñïð ôçí òðçñáoßá SSH:**

```
ipfw add allow tcp from any to me 22 in via $ext_if
```

Ôi **IPFILTER** áðíáé íéá áóáñííáP firewall ðíó áíáððýóóáðáé áðú ôíí Darren Reed. Äáí Ý÷-áé ööéá÷-ðáß áéáéêÜ áéá ôí FreeBSD, éáé Ý÷-áé íáðóáññéáß éáé óá Üëéá éáéðíññáéêÜ, óðíðññééäíááííÝíúí ðúi NetBSD, OpenBSD, SunOS, HP/UX, éáé Solaris.

ĐánŨäâëàlà áíüò êáíuíá ãéá ôi **IPFILTER** ðĩõ ãđéõñÝđăé áéóăñ÷:ùiàlá àăăñÝía đñĩò ôçí òđçñăóóá **SSH**:

```
pass in on $ext_if proto tcp from any to any port = 22
```

Ç òàèãòòááá àòàñìràP firewall, òì **PF**, áíáðóýóóòáé áðü òì OpenBSD project. Ôì **PF** açìéròñãPèçèà ùò áíòééáòáóòÜòçò òìò **IPFILTER**, éáé Ýóóé ç óýíóáç òìò **PF** áñíáé áñèâòÜ ðañüüíéá íá áóòP òìò **IPFILTER**. Ôì **PF** ìðññáá íá óóíáòáóóòáá íà òì altq(4) áéá íá ðánÝ÷áé òðçñáóáò òýðìò QoS.

ĐánÜääëâîá êáíuíá ôiõ **PF** ðiõ ãðéônÝðáé áéóãñ÷ùiáíá áããîîÝíá ðñiò ôçí òðçñáóßá **SSH**:

```
pass in on $ext_if inet proto tcp from any to ($ext_if) port 22
```

## 7 Άίάâáèìßæïïôáò ôï FreeBSD

ÖðÜñ÷ïï ññáo ìÝëäë äéá ôçí áíááÜëìéóç áúò óóóóPíáòïò FreeBSD: ÌÝòù òïò ðçááßïò êpäééá, ìÝòù Ýðìëìì (binary) áíááäèìßóáìì, êéé ìÝòù òùì CD ääêäÖÜóóáóçð.

Ç ääëäöÜöäöäç ìÝóü öïð ðçäâßïð ëðäëä äßíäé ç ðëí ðíëýðëíç, äëëÜ ðñïóÝñäé éäé öç ìäääëýðäñç äöíäðP äðäëëíßä. Ç äéääëäöäßä äöðP ðäñëëäíäÜíäé öí öðä÷ñííëöíü öïð öíðëëëý áíðéäñÜöïð öïð ðçäâßïð ëðäëä öïð FreeBSD ìä öíí ëðäëä öïð FreeBSD ðïð äñßöéäðäé öóíðð äíððçñäðçÝð CVS (Concurrent Versioning System). Äðü öç öóéäñP ðïð öí öíðëëü áíðßäñäöí ðçäâßïð ëðäëä äßíäé äíáíäüñÝí, ìðñäßðä ìä ìäöäëüððßöäðä ìÝäð äëäüäüäëð öïð ððñPíä éäé öüí ääöéëPí ðñíäñäíÜöüí. Äéä ðäñëöóüðäñäðð ðççñïíöíßäð ö÷äðëëÜ ìä öí öýöðçíä äíáäÜëíëöçð ìÝóü ðçäâßïð ëðäëä, ääßðä öí ëäðÜëäëí ÄíçìÝñöç éäé ÄíáäÜëíëöç ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/updating-upgrading.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/updating-upgrading.html)) öóí Ää÷äëñäëí öïð FreeBSD.

Ίε Υόιειάο (binary) αίαάειβόάεο, αβίαέ δάνυιρέαο ιά ος ÷ñΠός οςο αίοιρέΠο yum P apt-get αέα οςι αίαάΥειέος αίυο  
 οόοόΠιάοιò Linux. Ç αίοιρέP freebsd-update(8) έα έαοάάΥοάε οέο αίαάειβόάεο έάε έα οέο αάεάοάοόΠοάέ. Ιδιñαβόα ιά  
 έάειñβόάοά οςι αόδύιáος, αίΥ όάέδΥ έάέάοΠιάόά άέοΥέάος οςο, ιά ος ÷ñΠός οίò cron(8).

**Όγιὰβυός:** Αί δñüēâéóáé íá ÷ ñçóéíïðíéPóáðâ ðí cron(8) äéá ðñĩāñáíìäóéóíÝíäð áíááâèìßóáéð, äâââéùèâßðâ üðé ÷ ñçóéíïðíéâßðâ òçí áíðíēP `frebsd-update cron` ððí äñ÷:âßí crontab(1) äéá íá äēâ÷:éóðíðíēçēâß ç ðēēáíüðçðâ íá âßíäóáé áíáíÝüòç òçí ßäéä óðēâìP äðü Ýíá íäâÜēí äñēèìü ïç÷:áíçÜððüí.

```
0 3 * * * root /usr/sbin/freebsd-update cron
```

Ç öâëãöôâáá äðëëïãP áíááÛëíóçð, ìÝòù òùì CD äãëáðÛóóáóçð, âáíáë äñëãðÛ íäëÛëãñ. Áðëð ãëëëíPóðã áðu òì  
 CD äãëáðÛóóáóçð ëáë äðëëÝíòá òçì áíðòòíë÷ç äðëëïãP áíááÛëíóçð (upgrade).

**8 procfs: ĐăñáóìÝĩ áëëÜ ü÷é Îă÷áóìÝĩ**

Ói Linux, é ÷ñááóâá íá áââô ôi /proc/sys/net/ipv4/ip\_forward áé íá éâëñâóâô áí áíáé áíáñáíðéíÝí c ðñíèèó IP (IP forwarding). Ói FreeBSD é ðñÝðáé íá ÷ñçóéíðééóáô ôi sysctl(8) áé íá áââô

ἄοδP εἰς Ὑεῶδ νῶειβῶἰῶδ οἷο ὁῶδPἰἰἰῶδ, ἐἰπεῖ δὲ procfs(5) εἰαῦνἰἰἰῶἰῶ δἰἰῶ÷çἰYἰ ὁἰ δἰῶῶἰἰἰῶδ ἰἰἰῶἰἰῶδ οἷῶ  
εἰἰῶἰῶἰἰἰῶἰἰῶ. (Αἰ εἰς ç ἰἰῶἰῶP<sub>sysctl</sub> ἰἰἰῶἰ ἰἰῶῶδ ἰἰῶἰYῶἰῶ εἰς ὁἰ Linux).

[illegible]

```
% sysctl net.inet.ip.forwarding
net.inet.ip.forwarding: 0
```

Ç ¢đéëĩãP -a ÷ñçóéĩđĩéãßôáé ¢éá íá đŨñĩõĩã ìéá ëßóóá ìã üëàò ôéò ñõèìßóáéò ôĩõ óõóôPĩáôĩò:

```
% sysctl -a
kern.ostype: FreeBSD
kern.osrelease: 6.2-RELEASE-p9
kern.osrevision: 199506
kern.version: FreeBSD 6.2-RELEASE-p9 #0: Thu Nov 29 04:07:33 UTC 2007
        root@i386-builder.daemonology.net:/usr/obj/usr/src/sys/GENERIC

kern.maxvnodes: 17517
kern.maxproc: 1988
kern.maxfiles: 3976
kern.argmax: 262144
kern.securelevel: -1
kern.hostname: server1
kern.hostid: 0
kern.clockrate: { hz = 1000, tick = 1000, profhz = 666, stathz = 133 }
kern.posix1version: 200112
...
```

Όχι!Βούο: ÊÜðíεαò áðü öéo ôéíÝò ðĩö äãß÷íáé ç áíôîÊP<sub>sysctl</sub> áßíáé ìüñ äéá áíÜáíüóç.

[illegible]

```
proc          /proc          procfs  rw,noauto          0          0
```

**Ὁγιαβυός:** Ὁ ἀδελφεῖς *noauto* ἐὰ ἀιδιᾶβόαε ὁγι ἀδὸυιδόος δῆτοῦ ἡνὸς ὁτῷ /*proc* ἐὰδὺ ὁγι ἀέελβίος ὁτῷ ὁδὸδ Πιᾶδὸτ.

ĐñiôáñôPôôâ éâôüđéí ôcí procfs ÷ñćóëiüđiépíôâò ôcí áéüëiüôęc áíôieP:

```
# mount /proc
```



## 9 ÓóίϗέέóìÝíàò ÁíôïëÝò

### 9.1 Äéá÷ãβñέόϗ ÐáêÝòùí

ÁíôïëP ôïò Linux (Red Hat/Debian)	Áíôβóôïë÷ϗ áíôïëP FreeBSD	Óêïðüò
<code>yum install package / apt-get install package</code>	<code>pkg_add -r package</code>	ÄãêáoÜóóáoϗ ÐáêÝòïò áðü áðñíáêññóìÝíí áíòðϗñâóϗP
<code>rpm -ivh package / dpkg -i package</code>	<code>pkg_add -v package</code>	ÄãêáoÜóóáoϗ ÐáêÝòïò
<code>rpm -qa / dpkg -l</code>	<code>pkg_info</code>	Ëβóóá äãêáoáoóϗìÝíñí ÐáêÝòùí

### 9.2 Äéá÷ãβñέόϗ ÓóóôPíáôïò

ÁíôïëP Linux	Áíôβóôïë÷ϗ áíôïëP FreeBSD	Óêïðüò
<code>lspci</code>	<code>pciconf</code>	Ëβóóá óóóêãðí PCI
<code>lsmod</code>	<code>kldstat</code>	Ëβóóá ôññòùíÝíñí áñêññüíÜòùí ðòñPíá
<code>modprobe</code>	<code>kldload / kldunload</code>	Öññòùóϗ/Áðñöññòùóϗ áñêññüíÜòùí ðòñPíá
<code>strace</code>	<code>truss</code>	Áíβ÷íáóóϗ êêPóáñí óóóôPíáôïò

## 10 ÓóìðãñÜóíáoá

Áðãêðέóóíγíá üòé áóòü ôí êãβíñí óáo ðãññβ÷ã áñêãòÝð ðεϗññíññβáo ãéá íá íãêéíPóáòã íá ôí FreeBSD. Äéá ðãñέóóóðãññò éáé ðéí êãðòññãññβò ðεϗññíññβáo, ðãñáéáéíγíá íá äéáãÜóáòã ôí Äã÷ãéñβáéí ôïò FreeBSD ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/index.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/index.html)) ôí ïðñí ãðβόϗò ðãñéÝ÷ãé éáé ðñέÜ èÝíáoá ðïò äãí éáéýòεϗáí éáéüεïò óóí ðãññí êãβíñí.