

Post Install Configuration

FreeBSD

SANOG 9

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One System Admin's Point of View

- Reduce to a minimum number of services
- Restrict SSH root access to public keys only
 - Install your ssh public key(s) [we'll do later]
- Remove extraneous accounts and groups
- Configure `/etc/rc.conf` as needed
 - Set up proper logging
- Update your source
- Update your ports collection
- Rebuild your operating system
- Reconfigure your kernel
- Rebuild your kernel

Point of View Cont.

- Reboot! ;-)
- You might not need a firewall...
- You might want to use inetd.

What Are we Going to Do?

Here's one way to do things...

- 1) Keep box off net
- 2) Edit /etc/rc.conf
- 3) Bring up net
- 4) pkg_add rsync, ssh, other (or, portsnap, then build)
- 5) Enable ssh
- 6) Install ssh authorized keys for root
- 7) Install hacked ssh config /etc/ssh/sshd_config
- 8) Start new sshd
- 9) Update source (cvsup)
- 10) Build world
- 11) Build custom kernel
- 12) Portsnap to keep ports up-to-date

These we'll do later after we discuss cryptography.
These we'll show, the rest we'll do.

Updating Source

“More than one way to skin a cat”

In brief:

- Create a “supfile” with options you want
- Get the source as specified in supfile
- Create a custom kernel configuration file
- Run...
 - `make buildworld`
 - `make kernel KERNCONF=SANOG9`
 - `make install KERNCONF=SANOG9`
 - `<reboot in to single user mode>`
 - `cd /usr/src`
 - `mergemaster -p`
 - `make installworld`
 - `make delete-old`
 - `mergemaster`
 - `<reboot>`

Some Suggestions First

A few things you *really* should read:

- `less /usr/src/UPDATING`
- `man mergemaster`
- `/usr/share/doc/handbook/cvsup.html`
- `/usr/share/doc/handbook/kernelconfig.html`

And consider trying this on a test system once for practice.

How Would you do This?

First, install “cvsup-without-gui”

```
- pkg_add -r cvsup-without-gui
```

- Regular `cvsup` requires *a lot* of extra stuff and it's not necessary.
- Use `/usr/share/examples/cvsup/cvs-supfile` to build your custom supfile.
- See if there's a FreeBSD cvs server near you.
- Build your custom file. Here's an example:

cvs supfile File Example*

Defaults that apply to all the collections

*default host=cvsup2.za.freebsd.org

*default base=/usr

*default prefix=/usr

*default release=cvs

*default delete use-rel-suffi

*default tag=[RELENG_6](#)

src-all

*default tag=.

doc-all

ports-all

**Actual file is longer with comments*

cvsup Command

Now to actually do it. If your file is called “cvs-supfile” and is in /usr/src type:

```
# cvsup -g -L 2 supfile
```

-g = no graphics

-L 2 = full details on screen

Once done, or during the process, you can create your customer Kernel config file.

FreeBSD Post Install Configuration

Now we'll do the post-install exercises, part II...