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”

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

- Regular `cvsup` requires *a lot* of extra stuff and it's not necessary.
- Use `/usr/share/examples/cvsup/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-suffix

*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...