

## Safety Regulations

- Have a non root user for non privileged operations. (use pw useradd to add a user)
- Use su when you need root.
- Do NOT leave a root user logged in
- Chose root password (as with any other password) particularly carefully.
- (Other security considerations covered elsewhere)


## To r00t or not to r00t

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- Unix security is (in most cases) binary. Either you are root or you are not.
- Effects on permissions
- Windows comparison with no users (win 3.x) to "kinds of users" i.e administrator(s) etc.
- Group permissions in UNIX also available using /etc/group
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To r00t or not to r00t

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- Switch back to user terminal (ALT+F2)
- Try su - still doesn't work.. why?
- Type "id" to see what the system thinks of us
- Log out and log in again
- Type "id" again
- Now try su
- After you have done that, you can log out with "exit"

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## Worsheet2

## - ls /cdrom (should be empty)

- mount -r -t cd9660 /dev/acd0 /cdrom
- 1s /cdrom (should have contents of CD drive)
- less /cdrom/README.TXT (case sensitive)
- 'q' to quit
- umount /cdrom to unmount (always do this before ejecting any removable media)

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April 12, 2005

## Filesystem

- Recap: no drives on system - only one huge filesystem (set of directories and files).
- Physical (or otherwise) devices are attached to the system with the "mount" command (read the man page)
- To detach devices from the filesystem we use the "umount" command. (read the man page)
- mount with no options lists the mounted systems.
- Check UNIX handout for other filesystem commands.

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## Package Management

- Easy way to install, programes are precompiled - quick to manage.
- Has a few problems:
- Compiler optimisations absent
- Optional features may not exist e.g. Database support.
- FreeBSD is to $\mathrm{pkg}_{-} *$ as RedHAT is to rpm ... almost.
- pkg_info, pkg_add, pkg_delete etc (read man pages)


## worksheet3

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- Mount your FreeBSD CD1 in your CDROM drive.
- pkg_add /cdrom/packages/All/bash-2.05b.007_4.tbz
- pkg_info -L bash \({ }^{*}\) (note the backslash is to escape the *)
- All files under /usr/local
- Type bash
- Doesn't work? Why?
- Rehash and try again.
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\section*{Editor worksheet}
- ifconfig - (to list your network cards)
- vi /etc/rc.conf
- Scroll down to bottom line.
- Type i
- ifconfig_rl0="196.200.218.N/24" (replace rl0 with correct card)
- default_router="196.200.218.254"
- Hit [ESC]
- Type :wq!

\section*{Editors}
- Most common is vi only that it has lots of modes that are interesting.
- [ESC] key to go to command mode from any mode
- 'i' key from command mode to start editing text
- Refer to UNIX command reference
- ee is also another common UNIX editor - not always avaiable on some systems (e.g in single user mode to be discussed later)
- Commands are executed using the [CTRL]+<somekey>
- Help screen displayed in editor
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\section*{Editor worksheet continued}
- vi /etc/resolv.conf
- Add the lines...
search e0.ws.afnog.org
nameserver 196.200.218.100
nameserver 196.200.222.1
- Type :wq (to write and quit)

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