Advanced DNS
Operations & Security

A few UNIX basics

Network Startup Resource Center

Our chosen platform

FreeBSD 8.2 64bit

- – UNIX OS, BSD variant

- – 30 year history)

- – no GUI, we administer using ssh

- There are other platforms you could use:

  - – Ubuntu, Debian, CentOS/RedHat, …

- This isn't a UNIX admin course

  - – Worksheets are mostly step-by-step

  - – Please help each other or ask us for help

You need to be able to….

Login to your virtual machine using ssh

   – On Windows use putty.exe - download here:

http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe

   – Connect to "master.grpX" as user *adm*

   (where X is the number of your machine group)

- Be *root* when necessary: `sudo <cmd>`

- Install packages

   – `pkg_add -r ...`

- Edit files

   – `sudo ee /etc/motd`

Logging in

Linux/MacOS

```
ssh -l adm master.grpX.ws.nsrc.org
```

X is the number of **YOUR** group!

Windows

Putty or SecureCRT, connect to:

```
master.grpX.ws.nsrc.org
```

As user "adm". Accept the key.

ee editor

- ESC brings up the editor menu
- Cursors work as you expect

vi editor

- The default editor for all UNIX
- Can be difficult to use
- If you know it and prefer to use vi please do
- We provide a PDF reference in the materials

Other tools

- Terminate foreground program: CTRL+C

```
$ ping yahoo.com
PING yahoo.com (67.195.160.76): 56 data bytes
64 bytes from 67.195.160.76: icmp_seq=0 ttl=45 time=221.053 ms
64 bytes from 67.195.160.76: icmp_seq=1 ttl=45 time=224.145 ms
^C        ← here press CTRL + C
```

- Browse the filesystem:
  - `cd /etc`
  - `ls`
  - `ls -l`

- Rename and delete files
  - `mv file file.bak`

Starting and stopping services

Standard method

- `/etc/rc.d/named restart`

Check for the process

- `ps auxwww | grep named`

Viewing files

Sometimes files are viewed through a pager program ("more", "less", "cat"). Example:

- `man sudo`

- Space bar for next page
- "b" to go backwards
- "q" to quit
- "/" and a pattern (/text) to search

To get started

- Login to your virtual server using ssh
- Experiment with the `ee` editor
    - … or `vi` if you prefer
- Edit the "message of the day" to identify your virtual machine as yours:
    - `sudo ee /etc/motd`
    - Or use your favorite editor (vi, joe, etc.)
- Log out and log in again, then do:
    - `man motd`