

## Daniel Wells – 20/10/2008 – MSc in Computer Science

### Progress Report:

#### --Masters Progress

- Server Installed
  - Tar up */usr/local/etc* and */var* from ACR-Virtual Machine into a single tarball and copied across to the physical server (*gf3.dsl.ru.ac.za; 146.231.113.40/28*)
  - Fixed mount points (*/etc/fstab/ da0 to ad0*)
  - Configured server for testing on *g03w0418-3.ict*
  - Cacti working fine, slow compared to Virtual Machine
- Server deployed to Monument
  - Configured IP's as per specified.
    - ext0: *146.231.113.40/29* (error, read on)
    - int0: *169.254.0.20/16*
  - Configured */etc/ppp/ppp.secret* for home router/client
  - Plugged into switch (Port 19 – Wireless, Port 20 – Rhodes)
  - Switch configured
  - Back up to Monument to fix IP (netmask wrong - had it */29* and not */28*)
  - All working fine
- Configured Home Router
  - Changed settings and IP addresses and PPP to dial “danpppoe” and not “scwpppoe”.
  - Worked!
  - Couldn't SSH back in from *gf3.dsl.ru.ac.za* noticed router was not right (cycles), so fixed the routing and it was working fine
  - Fiddling with DHCPd
  - Stopped working (wasn't sure whether it was me or something else)
  - Tried to fix it and broke *gf3.dsl*
  - Reverted to *dukat.dsl* “scwpppoe”
  - DHCPd up and running at home, MAC based IP handing out. No more Windows Internet Connection Sharing poozle

## --Next up

- Fix the things I broke
  - Head to monument and fix/reboot, ipfw naggles.
  - Change some IP's at home router and "*scwpppoe*" to "*danpppoe*". I should maybe write a script to do this automatically...
    - Change internal IP (146.231.118.129 -> 146.231.118.145)
    - Modify dhcpd.conf (or just copy a pre-prepared one, +16 all IP's)
    - Restart dhcpd
    - Kill PPP to scwpppoe
    - Start PPP to *danpppoe*
- Routing
  - The reason things broke was due to bad routing
    - Perhaps things were just down at that moment... Not sure
  - Fix routing to my home subnet
  - Static routes atm?
    - Or do something more like dukat and have a script that runs everytime a new PPP connection is made?
- Extensions for Cacti
  - MIBS for PPPoE
  - MIBS for WiMAX kit
    - Wondered how this would work, they're on separate IP ranges for configuration. Can one change that/is that clever?
- PPP user management...