

## Daniel Wells – 27/10/2008 – MSc in Computer Science

### Progress Report:

#### --Masters Progress

- Rebooted server at the monument
  - *# ipfw flush* is not a clever command to do remotely...
  - Put a new lightbulb in the dingy room ☺
- Home router could only see (ping/ssh) *gf3.dsl.ru.ac.za*
  - Routing issues
    - Changed default router on *gf3.dsl.ru.ac.za* from 146.231.113.33 to 146.231.113.37 (*dukat.dsl*)
    - Added routes for my subnet and pppoe address to go through my router and not out through *dukat*
    - Added routes for my subnet and pppoe address to go out through external link on *gf3.dsl.ru.ac.za*
    - All working, albeit slower than going through *dukat.dsl*, but working.
  - Home router stopped working
    - Internal interface broke (small power outage must've fried the NIC), everything else is fine. Extension cord plug for the PC, IDU, and WiFi AP is now a fat green surge plug
    - Replaced and fixed NIC, all back up and running
- *gf3.dsl.ru.ac.za*
  - Up and running.
  - Something fishy. Lose connection minutes at a time, and then suddenly its back up like nothing happened.
  - Connection via this server (over *danpppoe*) is much slower (than *scwpppoe*)
  - Script runs when a PPP connection is made */etc/ppp/ppp.linkup.sh*
    - Creates routes for my home subnet (very simple atm)
- Cacti
  - RRDTool still running slowly
  - Added some graphs to Cacti (some SNMP Generic OID Template) on two of the MicroBST's interfaces (Data and Air)
    - Don't seem quite right (or right at all)
  - Found some new MIB files to make better sense of an snmpwalk
- Portupgrade
  - Installed screen (no interruptions please)
  - csup'd the ports tree on *gf3.dsl.ru.ac.za*
  - Running a *portversion -l "<"* showed many ports that needed upgrading
  - *# portupgrade -arR*
    - Lots of errors, almost every package

- “An older version of this package exists, you may wish to ‘make deinstall’ and then... Stop error code ... ..”
  - Surely this is silly? I’m running portUPGRADE.
- So I did some of them myself
- # portupgrade cacti -rR
- # portupgrade apache -rR

## --Next up

- Alvarion MicroBST
  - Default passwords hey...
- Cacti and Alvarion MIBs
  - Found new MIBs for the MicroBST
    - Lots of interesting things!
  - Working on installing them for Net-SNMP, need to put them into */usr/local/share/snmp/mibs/* but the files I have are of a different (wrong) format.
  - Need to fix the format for a snmpwalk to show up the OID names instead of the numbers
    - This is only for viewing ease
    - It’ll help to discover interesting OIDs instead of looking through a list of numbers leading to numbers
  - Make some graphs, none seem to exist for this device. I can modify a similar graph template to suit our needs
    - Data in/out per connection
    - Total data in/out (can have all the connections on this as well)
    - And more (MIB digging on the MicroBST!)