

Daniel Wells – 10/06/2008 – MSc in Computer Science

Progress Report:

--Masters Progress

- WiMAX Installed
 - Lots of drilling and angles and near-death-experiences
 - Router up and running
 - VM of my client router
 - Hosted by my Windows XP machine (upgraded from Vista to XP :))
 - PPP: Paired with “scwpppoe” at the moment
 - All traffic routed through the router
 - Wireless NIC (D-Link DWL-520+ AirPlus)
 - Can't use wireless devices in virtual machines, as they have no control over the host hardware (unless it's a USB device)
 - 802.11b - 11 Mbps
 - Using Windows Internet Connection Sharing to share connection over Wi-Fi
 - Clients forced to use 192.168.1.0/24 subnet by Windows (and DHCP)
 - Configured as ad-hoc Wi-Fi network
 - No WPA encryption available, no MAC address filtering, only 128 bit WEP
 - No too happy about this, looking into getting my own AP
 - All good.
 - AND xbox live is not working...
- PPPoE
 - Working, at home and in my virtual machines, we don't allow unencrypted wireless connections.

--Next Up

Time	Work To Do:
<i>October Week 2</i> <i>(present)</i>	Deploy ACR to its own box <ul style="list-style-type: none">- Need second network card- Getting it ready for the SCW- Resource greedy virtual machine- PPPoEd: "danpppoe"- Do I need an IP for it? Can I still use blackspy.ict.ru.ac.za when it's deployed next to dukat? Something like dan-masters.dsl.ru.ac.za? Sort out Cacti <ul style="list-style-type: none">- Alvarion / WiMAX Mibs- Number of Active Connections- Connection Speeds- Latency- Traffic per Connection (who uses the most) User Management (for PPP users) <ul style="list-style-type: none">- Configure a front end for simple user management
<i>October Week 3</i>	ACR <ul style="list-style-type: none">- Deploy in parallel to dukat.dsl.ru.ac.za- In this way not interrupt anyone else's connection, but my own- Shift my home WiMAX router to talk to "danpppoe" and not "scwpppoe", and to forget about dukat.dsl and its stableness-
October Week 4	ACR <ul style="list-style-type: none">- Start taking over other connections- This should be simple enough as a change in configuration on the client side router- Constant fiddling and reworking- Monitoring and fixing- LOG EVERYTHING