

Daniel Wells – 10/11/2008 – MSc in Computer Science

Progress Report:

--Masters Progress

- Thesis
 - Added more to each section
 - Chapter 2 needs a lot of work
 - Needs rearranging (see Next Up)
- Some light reading
 - **Guy Halse – Masters Thesis – Novel Approaches to the Monitoring of Computer Networks**
 - Easy and interesting reading, some similar material to the work in my project
 - What was the mark obtained?
 - Chapter 1
 - Intro to problem then document layout then explanations of conventions used in the work/dissertation
 - Conventions and Typography section, as I am also going to be discussing a few Unix commands and a few RFC's
 - Multiple notes taken whilst reading further chapters (things to look into and possibly use)
 - SNMP, RMON, Passive Monitoring, MRTG (RRDTool), Big Brother (Zenoss and Nagios), SNMP OIDs and MIBs.
 - Distinction between Network Management and Network Monitoring
 - A simple fault management system for Local High School
 - Web based summary of local services which allows local administrators to explain problems seen to remote managers when problems arise (this could be useful in Dwesa)
 - Producing the layout of a network topology using traceroute(8) and GraphViz – Layer 3 of OSI stack
 - SNMP approach to drawing network topology – Layer 2
 - Chapter 9 – Conclusion and Future work
 - Short chapter, starts with short recap and then a summary of work covered
 - Big future work section
 - Then short conclusion of the outcomes of the project
 - References and length
 - Short and to the point thesis, easy to read and follow
 - 40 references? (28 papers and such, 12 RFC's and BCP's)

- **Russell Cloran – Masters Thesis – Trust on the Semantic Web**
 - Chapter 1
 - Similar to my current layout (intro, problem, intended work, outline)
 - Chapter 2 + 3
 - Explanation of two major concepts in terms of this work, in separate chapters, The Semantic Web and Trust. Both chapters start with a quote relating to the information that is going to be discussed
 - Chapter 8 – Conclusion
 - Goals revisited
 - Summary of work
 - Summaries of each chapter and their discussions
 - Further work
 - References and Glossary
 - Lots of references (168)
 - Glossary of terms

- **Mamello Thinyane – Masters Thesis – Investigating the Viability of a Framework for Small Scale, Easily Deployable and Extensible Hotspot Management Systems**
 - Couldn't get a printable copy off eprints
 - Looked at his research page too, no thesis present

- Monument ACR (gf3.dsl.ru.ac.za)
 - Headed up to monument to find out why machine was off
 - Checked BIOS to see if it turns on when power returns (after a power cut)
 - Was set to this already
 - Machine gives disk errors (ad0 read-write errors)
 - Machine runs a fsck on boot due to the file system being improperly dismounted
 - Machine halts and reboots when fsck reaches certain point
 - This occurs approximately every 7 minutes
 - Replacement HDD necessary?

- Monument APC UPS (for dukat.dsl and gf3.dsl)
 - Unplugged input power and waited
 - UPS ran on battery for 3 minutes and 18 seconds
 - A replacement (battery or device) is necessary
 - Connected USB to Serial cable from UPS to dukat.dsl for Philip to monitor/manage the UPS

--Next up

- Thesis: Chapter 1 – Introduction
 - Write an introduction to the problem, set the scene
 - Rework problem statement
 - Fill out research goals and outcomes
 - Conventions used in the work/thesis
 - Document structure
- Thesis: Chapter 2 – Related Work
 - Needs rearranging and thinking about what it is
 - Must discuss concepts like Network Management and Monitoring and concepts of User/Bandwidth Management and what is needed. (Concepts, like caching)
 - Then we can discuss solutions to the needs of the management and monitoring, and provide comparisons and contrasts on differences and similarities between solutions (Applications, like Squid for caching)
 - Further chapters will make choices, Chapter 2 is to give options and previous work in the problem domain and what they provide and also what they fail to provide.
- Thesis: Chapter 7 – Conclusion
 - Revisit goals and intended outcomes
 - Summary of work discussed
 - Conclusion
 - Future work in this problem domain