Semester Project

There are two parts:

* An essay portion (done individually).
* A team (2) presentation on some novel Windows Networking functionality.

# Essay

Scored out of 10.

A 500 word essay (in your own words) contrasting some network component that we covered in both UNIX and Windows (ex. Windows DNS vs named/bind, Windows Firewall vs IPTables, IIS vs Apache, PowerShell vs Bash scripting language, etc). The essay should express your opinions about the pros and the cons of both technologies along with a statement about which you consider superior.

The only valid sources are the course material itself (the UNIX course notes are still available on Lea should you wish to consult them).

Your essays will be closely checked for plagiarism, just don’t.

Your grade will reflect how much understanding of the topic you demonstrate. Depth of analysis is the key to a good grade.

# Presentation

Teams: Teams of 2, inform me ASAP of the team members

Scored out of 10 – (50% for the demo, 50% for presentation content)

Research and present a Networking topic to the class (along with a live demo). Total presentation time should be 10-15 minutes. The work should be shared evenly, please see me (privately) if you feel this was not done.

You may not present a topic that was taught in the class (ex. Basics of DHCP). Examples of topics that might be interesting:

* DNS Security (DNSSec): What it is, what problem it solves, how to implement it in Windows.
* DFS (Distributed File Systems): What it is, what problem it solves, how to implement it in Windows.
* Implementing a VPN under Windows: Describe the underlying technologies and focus the demo on the how to of implementation.
* Network Heatmaps: What they are, how to produce them. I see this as a cool technology demo heavy on PowerShell.
* …

Should you require additional infrastructure (VMs, virtual disks, IP addresses, software, etc.), please discuss with me well in advance. I expect that most groups will use their existing virtual machines for the demos.

Once you’ve selected your topic, please add a message on the class forum (on Lea), reserving your topic (i.e. I don’t want any two groups covering the same thing). First come, first served.