Project 1 - Network Management

💡This is a group project to quickly research, evaluate and prototype your chosen network monitoring solution against a few requirements.

Refer to https://en.wikipedia.org/wiki/Comparison_of_network_monitoring_systems and other resources. Select an open source Network Monitoring Solution. This system can be installed on nmon01 (or another server if you prefer).

💀The internet is rife with misinformation. Guides produced by others are frequently incorrect or for different operating systems. Eye resources with suspicion, you are developing your own build documentation that will be informed by the relevant and accurate information you manage to find.

If a particular solution is not working out for whatever reason, then your path to success is: a) dig deeper, or b) always open to swap products.

You have 2 weeks. Manage your time wisely.

Some of the systems that appear interesting (don't limit yourself to these!) include:

- nagios(Core only)
- cacti
- sensu
- zenoss
- zabbix
- opennms
- pandora fms

Constraints and Requirements:

- **Open Source only (GPL, BSD), not Commercial or Evaluation**
- Consider service that support other protocols and techniques for monitoring and management

1. What Server Monitoring Software are you using, and reference where you got it.

2. Provide the build and configuration instructions for your clients and your Network Management Server Software, such that another SYS265 student can duplicate your installation. A good way to test this is to jointly build the environment in one student's vSphere area and test the documentation on the other students' VMs. The build documentation should be a .pdf or .docx file. Your individual tech journals are probably not suited to this editing but rather sharing a Google Doc among teammates is advised, you can always move relevant content into your wiki at project completion.

3. Review successfully installed and configured solution (a dashboard would do it). You should monitor at least the following: Server 2019 Server (mgmt01 or ad01), and a Linux Server. Monitoring fw01 would be a nice touch, but is not required.

4. Develop a test that shows an alert when two of your hosts go down (test on Linux and Windows).

5. Develop a test that shows an alert when one of your monitored assets hard drives passes a threshold (Linux or Windows).

6. What are the pros and cons of this software? Would you recommend it?

7. Provide a team video demo (including equal team member air time) including #3, validating your solutions for #4 + #5, and including #6.