NSSA-220 Mini Project 1 – Grading Sheet

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| **Item** | **Point Value** | **Points**  **Earned** |
| Tool collects process and system level metrics every 5 seconds | 5 | 5 |
| Tool collects %CPU and %memory utilization per process using ps | 10 | 10 |
| Tool collects RX and TX data rates (in kB/s) with a sampling interval of 1 second using ifstat | 20 | 20 |
| Tool collects hard disk writes (in kB/s) to sda using iostat | 10 | 10 |
| Tool collects hard disk utilization on “/” in MB available using df | 5 | 5 |
| Tool outputs CPU and memory metrics to a CSV file specific to that process (<proc\_name>\_metrics.csv) with the format <seconds>, <%CPU>, <%memory> | 10 | 10 |
| Tool writes all system level metrics to a file called system\_metrics.csv with the format <seconds>, <RX data rate>, <TX data rate>, <disk writes>, <available disk capacity> | 10 | 10 |
| Tool spawns all application processes | 5 | 5 |
| Tool kills all application processes and any other processes it spawns in an exit trap function called cleanup | 10 | 10 |
| Tool includes at least three functions that (1) spawn all applications and other processes, (2) collect system level metrics, (3) collect process level metrics | 5 | 5 |
| Report showing results from a 15 minute run of the APM tool | 10 | 9 |
| Team submission not in a single zip file and/or missing any of the following items: the APM tool script, a report with the Excel plots included, and all output files created | -10 |  |
| Provided Excel plot template and/or report template is not used | -10 |  |
| Poor teamwork (assessed on an individual basis) | -50 |  |
| **Mini Project Grade:** | 99 | |

Comments:

Great work!

What do you think the spike meant in the hard disk utilization?