OSYS 1000 ASSIGNMENT 6

**UNIX**

**Due: Wednesday, Mar. 27, 2019 (in class)**

# Instructions

1. This assignment is in the form of a checklist that will be applied **to items you have completed** on the CentOS Virtual Machine and in its Terminal interface.
2. This assignment mostly involves having an executable shell script running on a schedule in your CentOS terminal.
3. The items in the list should have been covered in the following class videos:
   1. UNIX Basic Shell Scripting - Part 1
   2. UNIX Basic Shell Scripting - Part 2
   3. UNIX Basic Shell Scripting - Part 3
   4. UNIX Basic Shell Scripting - Part 4
   5. UNIX Scheduling with Cron
4. You may also want to check out the additional resources listed in the recent Weekly Agendas for more help if necessary.
5. On the day that the assignment is due you will demonstrate the completion of the tasks to the instructor in class and get the checklist completed/marked.
6. That’s it.

Whoami >> /home/osys1000/logfile.txt

pwd >> /home/osys1000/logfile.txt

touch log file as your user

**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| Item # | Item Description | Student has completed (Y/N)? |
| - | Log into CentOS. |  |
| - | Make sure you are in your home folder. |  |
| - | CREATE THE FOLLOWING SCRIPT FILE IN THE SUBFOLDER THAT IS ALREADY IN YOUR PATH. |  |
| - | Create a new ***executable script file*** called **assign6\_mike.sh**. Have a comment at the top of the script file marking yourself as the author. | Cp bin/~~.sh bin/assign6\_Cathy.sh , touch logfile.txt |
| 1. | Redirect the output of every line of the script file to a file called logFile.txt in your home directory. Make sure to append all lines. If a line causes an error, make sure to redirect the error to the log file as well. We want to see output of every step in the file. | sep = “++++”  read line < assign6\_Cathy  while read line  do  if [-e line]  then  $line >> assign6\_Cathy  else  echo “There is an error”  fi  done < $assign6\_Cathy  echo $sep |
| 2. | Separate the output of each task in the script with an output line of characters like “++++++++++++++++++++++++++++++++”. Store the output characters in a variable to make it easier to reprint. | sep = “++++” |
| 3. | Store the full path to the logFile.txt in a variable to make it easier to reuse. | fullPath = /home/osys1000/logfile.txt  echo $sep |
| 4. | The script will output the current date and time of the script execution. | Date >> $filepath  echo $sep |
| 5. | The script will output the current user running the script. | Whoami >> $filepath  echo $sep |
| 6. | The script will output the current directory that the script is running in. | Pwd >> $filepath  echo $sep |
| 7. | The script will output a count of **all** currently running processes. | Ps -ef | wc -l >> $filepath |
| 8. | Set up cron tasks to run your script twice automatically. iOnce via the system crontab running as root and once in your own user’s crontab file. **Make sure to always be appending to the logFile.txt so we see both runs in the file** (4 pts). | Path 동일하게 써줄 것  (crontab이랑 그냥 모두  Full path로) |