Advanced Scripting   
Lab 2 System Profiling

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Document Prepared for: CIT361 Student

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# Instructions

Save a copy of this document. Answer all questions directly in this document. You will save and upload this completed document as your homework submission.

# Overview

What is your system up to? This week’s lab is about understanding what process are running and how many resources they are using. This lab is less structured than the Exercises. You will be given concepts to explore and goals to accomplish. You will need to use help to understand learn usage.

# Preparation

Read the full help on Get-Process. (hint: use the -online switch to make it easier to read)

# Answer the following questions about your system

1. How many processes are running on your system?  
   252
   1. Record the statements you used to come to this conclusion  
      (Get-Process).count
2. How many unique processes are running on your system (by name)?  
   122
   1. Record the statements you used to come to this conclusion  
      (Get-Process|Sort-Object -Unique).count
3. What are the top three processes that are using the most memory?  
   SophosFileScanner, SavService, Chrome
   1. Record the statements you used to come to this conclusion  
      (Get-Process|Sort PM -Descending)
4. What are the top three processes that are using them most CPU time?  
   Chrome, iCUE, Chrom
   1. Record the statements you used to come to this conclusion  
      (Get-Process|Sort CPU -Descending)
5. What are the top three processes that are using the most handles?  
   System, Explorer, Razer Synapse Service
   1. Record the statements you used to come to this conclusion  
      (Get-Process|Sort Handles -Descending)
6. How many handles are in use on your system?  
   110480
   1. Record the statements you used to come to this conclusion  
      Get-Process|Measure-Object Handles -Sum
7. List all the user accounts that are running processes on your system.  
   DESKTOP-R4O3MVR\Der..., Font Driver Host\UM..., NT AUTHORITY\LOCAL ..., NT AUTHORITY\Networ ..., NT AUTHORITY\SYSTEM ..., Window Manager\DWM-1
   1. Record the statements you used to come to this conclusion  
      Get-Process -IncludeUserName|Sort UserName -unique
8. List all the companies that represent processes running on your system.  
   Microsoft,Google,Focusrite,Corsair,Oracle,Logitech,Node,Realtek,Sophos,Riot
   1. Record the statements you used to come to this conclusion  
      gps|Group-Object company
9. List the companies that only have one process running on your system.  
   focusrite,corsair,Logitech,node.js,Realtek,Sophos,riot
   1. Record the statements you used to come to this conclusion  
      gps|Group-Object company|Where {$\_.count -eq 1}

# Analysis

Explain what you discovered about your system and its processes.  
The first thing I discovered that I still have Sophos scanning my files without my realization! That there are also a lot of processes that are constantly running.

# Deliverable

Upload this document with completed answers to i-learn.