## Description

There are 2 exercises in this document that revolve around using PowerShell scripting to automate certain tasks required in an enterprise environment. The first one is focused on handling Windows registry. The second one is focused on silently deploying an application. The goal for these exercises is to create a tool that can be used by anyone in the team to achieve the objectives listed under each exercise.

The candidate is free to search the internet for inspiration. However, the candidate cannot copy and paste posted solutions on the internet as his or her own work. If a candidate is found to be plagiarizing other people's work, he or she will be automatically disqualified. The goal of this test is to gage the candidate's competency in scripting and analytical thinking of a problem. There are various ways to fulfill the tasks so the candidate is encouraged to be creative and forward thinking.

Exercises

PowerShell Registry Tool

You are tasked with deploying an application on a large pool of windows 10 desktops. After testing the application on your test machine, you realize that it does not create the necessary registry keys for the user to be able to launch it successfully. After reviewing the issue, you concluded that the following registry keys are absent and they need to be present for each user who logs into the machine to be able to use the application. Below is an image of the registry keys that need to be present:
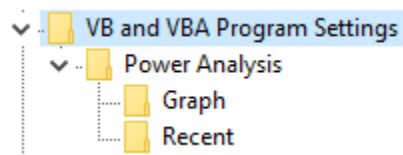
Under Graph key, the following values are present:

Name	Type	Data
(Default)	REG_SZ	(value not set)
gColor(1,0)	REG_SZ	1
gColor(1,1)	REG_SZ	1
gColor(1,2)	REG_SZ	1
gColor(1,3)	REG_SZ	1
gColor(1,4)	REG_SZ	1
gColor(1,5)	REG_SZ	1
gColorScheme	REG_SZ	1

Under Recent, the following values are found:

Name	Type	Data
ab (Default)	REG_SZ	(value not set)
ab 10	REG_SZ	
ab 5	REG_SZ	
ab 6	REG_SZ	
ab 7	REG_SZ	
ab 8	REG_SZ	
ab 9	REG_SZ	

Your team lead tasked you with creating a PowerShell tool to ensure that these registry keys are present for any user who logs into the machine. The PowerShell tool should be able to do the following:

- Test and create the registry keys if they are not found
- Create the properties for each registry key
- Log the success or failure of the tool in the Windows Event Log under the Application log with source name "SamplePower Registry" and event ID 1

PowerShell Application Deployment Tool

A new request came from a college who needs Notepad++ installed on lab machines. Notepad++ is a free source code editor available to everyone. Your supervisor tasks you with deploying the software to over 100 Windows 10 lab machines using PowerShell to automate the installation process. The PowerShell tool should be able to do the following:

- Silently installs the 32-bit/64-bit version of Notepad++ based on the operating system's version
- Record whether the installation succeeded or failed to a log file located in C:\Logs\ under the name Notepad_Installation.log

Submission

You will receive a link to a specific OneDrive location hosted on University of Florida SharePoint system. Please click on the link, then upload your files to the folder. The folder will be named Candidate # with the hash as a random number. For example: Candidate 8.

Your files should be named as follow:

- For exercise 1, *LastName_FirstName_RegistryTool.ps1*
- For exercise 2, *LastName_FirstName_ApplicationTool.ps1*