**Assignment 4: File Systems, Users and Command Line**

Create and manage new users, create batch files using NET and ICACLS command line application, research system and user profiles, manage security via Group Policy.

**Required Resources**

* Windows 10 workstation created in Assignment 1.

**Additional Information**

Professional Documentation - All documentation must be done in a *professional style*. It must include:

* Title page
* Updateable Table of Contents
* Document introduction
* Section introductions
* Document summary
* ALL sources and graphics used MUST be properly cited (APA) or credited.

\*\* All scripts must be converted to text before embedding them in your documentation. \*\*

*NB: Citations – Remember that citations MUST be provided for any code, script, test or image copied from another source or used as a resource. Not attributing appropriately (Plagiarism) or using illegal or unlicensed copies (copy write breach) are serious academic offenses. If you have any doubt as to when or how to cite, consult with your instructor and the resources provided by the college.*

<http://www.nscc.ca/docs/about-nscc/policies-procedures/policy-studentcodeofconduct.pdf>

**Evaluation:**

This assignment is worth a total of **60 Marks** as per the Rubric on Brightspace (marks will be deducted for deviating from Requirements). You may be asked to demonstrate some of your assignment to show your comprehension of the material.

**Marking and Assignment Notes:**

* **In Class** **marking** **(Task 1 & 2)** MUST be completed on the due date assigned during the scheduled class.
* **Documentation (Task 3 & 4)** must be submitted to Brightspace by 5pm on the due date assigned in Brightspace
* **Automatic mark of 0 - Assignment not submitted or work not original.**
* **Rubric** can be found on Brightspace at the bottom right of the assignment page under ‘Assessment’ or via Assessments 🡪 Rubrics

**Task 1 (In-Class Marking) – Research and manage users and folder with batch files**

Demonstrate your knowledge of the command line interface; perform any research necessary to create a batch (.bat) file that will perform the following actions. You will need to use a variety of commands in your batch file.

Your batch file should include all required comments.

Your batch file **must include** but is not limited to these commands:

* ECHO
* CD
* NET
* ICACLS
* MKDIR
* COPY

\*\* Remember to comment EACH line of your script.

1. Create a batch file F:\**NewUser.bat** that completes the following:

* Creates a folder named **Scripts** on the Root of C
* Add a local user named **Aisha Bruce** with the username **ABruce** and the password **student**
* Creates a directory in the “E:\CompanyInc\Management” folder named “ABruce Files”
* Creates an ACE for “ABruce” to the “ABruce Files” folder with these explicit permissions:
  + Full Control
  + Re-establishes inheritance to sub-folders and files
* Copies the application cmd.exe from the C:\Windows\System32 folder to the “ABruce Files” folder
* Adds ABruce to your **Management** Group created in assignment 3
* Produces an ICACLS Report for “ABruce Files” called “icaclsReport.txt” in the root of your Scripts folder.
* Moves F:\NewUser.bat to the root of C:\Scripts

1. Create a professional document (details on page 1) called **Assignment 4 – Command I**
2. Include a copy of your Batch file (**converted to text**) and a copy of the ICACLS Report in your documentation.

**Task 2 (In-Class Marking)– Working with Local Group Policies**

Create a Password Policy for your local computer:

1. Using your Custom Console1 (Local Computer Policy)
2. Enforce password history limitations to **5**
3. Set the security setting that determines the period of time (in days) that a password can be used before the system requires the user to change it to **60 days**
4. Set the security setting that determines the period of time (in days) that a password must be used before the user can change it to **2 days**
5. Set the minimum password length to 6 characters
6. Set the account lockout threshold to 3 attempts
7. Set the account lockout duration to 1 minutes
8. Make sure the system resets its lockout counter after 1 minutes

Answer the following questions and add your answer to your **Assignment 4 – Command I** document:

1. What is the difference between ‘Account lockout duration’ and ‘Account lockout threshold’?
2. How would you set an account to remain locked until the administrator unlocked it and why would you select this option?
3. Why is it important to set Password and Account policies?

Create an Update Policy for your local computer:

1. Using your Custom Console1 (Local Computer Policy)
2. Configure Automatic Updates to:
   1. Auto download and notify for install
   2. Every Saturday
   3. Schedule time for 1:00 am

**Task 3 (submit on Brightspace) – Research and report on System Profiles**

Research and create a report on the differences between Local, Roaming, Mandatory and Temporary Profiles in a Windows workstations. This report should be in the form of a summary table (example included below).

**Make sure to give**: a detailed description of the profile, the capabilities, associated files, uses and advantages/disadvantages of each type of profile.

|  |  |  |  |
| --- | --- | --- | --- |
| **Local Profile** | **Roaming Profile** | **Mandatory Profile** | **Temporary Profile** |
|  |  |  |  |
|  |  |  |  |

Remember to site all your sources. Add your Summary Table to your **Assignment 4 – Command I** document.

**Task 4 (submit on Brightspace) – Change Log & Assignment 4 – Command I**

* Update your Change Management Log, remember to include copies of any scripts created and all setting and configuration changes.
* Submit your Assignment 4 – Command I document