OPERATING SYSTEMS AND YOU: BECOMING A POWER USER

Course 3: IT Support

Objective

The objective of this practical exercise was to demonstrate:

- 1. Creating multiple user accounts in Windows.
- 2. Assigning users to appropriate groups with permissions.
- 3. Managing file permissions for users and groups.
- 4. Installing a software package using the PowerShell (CLI) via Chocolatey.

This exercise emphasizes administrative skills in user and file management, and the ability to automate software installation on Windows systems.

1. Creating Multiple Users

Step 1: Open PowerShell as Administrator

 Press Win + S, type PowerShell, right-click Windows PowerShell, and select Run as Administrator.

Step 2: Create Users

Commands executed:

```
Administrator: Windows PowerShell
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
 S C:\WINDOWS\system32>
PS C:\WINDOWS\system32>
> net user student1 Password123! /add
>> net user student2 Password123! /add
>> net user student3 Password123! /add
>> net user student4 Password123! /add
>> net user student5 Password123! /add
>> net user student5 Password123! /add
>> net user student6 Password123! /add
>> net user student7 Password123! /add
>> net user student8 Password123! /add
>> net user student19 Password123! /add
>> net user student19 Password123! /add
>> net user student19 Password123! /add
 > net user student10 Password123! /add
The command completed successfully.
PS C:\WINDOWS\system32>
```

Explanation:

- net user → command to create or manage users.
- student1-student10 → usernames of new accounts.
- Password123! → temporary password for each user (replace with stronger passwords if required).
- /add → parameter that adds the new user to the system.

2. Assigning Groups

Step 1: Assign Administrative Privileges

• Adds student1 to the Administrators group to give full system access.

Step 2: Create a Custom Group

• Creates a group called Developers to manage permissions for multiple users.

Step 3: Add Users to Groups

• Adds users student2–student5 to the Developers group for specific access privileges.

```
command completed successfully.
> net localgroup Administrators student1 /add
> net localgroup Developers /add
> command completed successfully.
> net localgroup Developers student2 /add
> net localgroup Developers student3 /add
> net localgroup Developers student4 /add
> net localgroup Developers student5 /add
> C:\WINDOWS\system32>
The command completed successfully.
PS C:\WINDOWS\system32>
```

3. Managing File Permissions

Step 1: Create a Test File

```
PS C:\WINDOWS\system32> echo "This is a shared project file" > C:\project.txt
>>
PS C:\WINDOWS\system32>
```

Creates a file named project.txt at the root of C: drive containing sample text.

Step 2: Set File Permissions

Explanation:

- icacls → manages file and folder permissions in Windows.
- (R,W) → read and write permissions.
- (R) → read-only permissions.
- /inheritance:r → removes inherited permissions for certain users.

4. Installing a Software Package via CLI

Step 1: Install VLC Media Player using Chocolatey

```
S C:\WINDOWS\system32>
>> choco install vlc -y
>> vlc --version
Chocolatey v2.3.0
Installing the following packages:
By installing, you accept licenses for the packages.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading vlc.install 3.0.21... 100%
vlc.install package files install completed. Performing other installation steps.
Installing 64-bit vlc.install...
vlc.install has been installed.
WARNING: No registry key found based on 'vlc.install'
WARNING: Can't find vlc.install install location
  vlc.install may be able to be automatically uninstalled.
 The install of vlc.install was successful.

Deployed to 'C:\Program Files\VideoLAN\VLC
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading vlc 3.0.21... 100%
 /lc v3.0.21 [Approved]
vlc package files install completed. Performing other installation steps.
 The install of vlc was successful.

Deployed to 'C:\ProgramData\chocolatey\lib\vlc'
Chocolatey installed 2/2 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
```

- Installs VLC Media Player using Chocolatey.
- -y → automatically confirms all prompts during installation.

Step 2: Verify Installation

Checks if VLC installed correctly and shows the version installed.

```
Windows PowerShell
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PS C:\WINDOWS\system32> vlc --version
>>
PS C:\WINDOWS\system32>

▲ VLC media player version 3.0.21

Dumped content to vlc-help.txt file.

Press the RETURN key to continue...
```

