Week 3 Laboratory: User Management and Permissions in Windows

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Objective:

Students will learn how to manage user accounts and groups, and assign permissions to files and folders in Windows using both graphical and command-line interfaces. By the end of this activity, students will be able to create, modify, and delete users and groups, as well as assign permissions to different user groups.

Lab Setup:

1. **Operating System:** Windows 10 or later.
2. **Required Tools:**
   - Command Prompt with Administrator privileges.
   - Access to the Local Users and Groups tool (`lusrmgr.msc`).
   - A folder created on the system for testing permissions (e.g., C:\LabFiles).

Task 1: Creating Users via Command Prompt

Step 1: Open Command Prompt as Administrator.

   - Search for **cmd** in the Start menu, right-click, and select **Run as administrator**.

Step 2: Create two users (`student1` and `student2`):
bash
Copy code
```
net user student1 password123 /add
net user student2 password456 /add
```
Step 3: Verify the users were created:
bash
Copy code
```
net user student1
net user student2
```

Task 2: Creating User Groups and Adding Users to Groups

Step 1: Create a group called "LabGroup":
bash
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```
net localgroup LabGroup /add
```
Step 2: Add both users (student1 and student2) to "LabGroup":
bash
Copy code
```
net localgroup LabGroup student1 /add
net localgroup LabGroup student2 /add
```
Step 3: Verify that the users were added to the group:
bash
Copy code
```
net localgroup LabGroup
```

Task 3: Setting Folder Permissions for the Group

Step 1: Create a folder called "C:\LabFiles":

- Use File Explorer or:

bash
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```
mkdir C:\LabFiles
```
Step 2: Assign full control of the "C:\LabFiles" folder to the group "LabGroup":
bash
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```
icacls "C:\LabFiles" /grant LabGroup:F
```
Step 3: Verify that the group has the correct permissions on the folder:
bash
Copy code
```
icacls "C:\LabFiles"
```

Task 4: Modifying and Testing User Permissions

Step 1: Remove write permissions for `student2` on the "C:\LabFiles" folder:
bash
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```
icacls "C:\LabFiles" /deny student2:W
```

Step 2: Test the permissions:

- **Log in as student2** and try to create a file in the "C:\LabFiles" folder. They should be denied access.
- **Log in as student1** and create a file in the "C:\LabFiles" folder, which should succeed.

Task 5: Deleting Users and Groups

Step 1: Remove the users from the group:
bash
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```
net localgroup LabGroup student1 /delete
net localgroup LabGroup student2 /delete
```

Step 2: Delete the users:
bash
Copy code
```
net user student1 /delete
net user student2 /delete
```

Step 3: Delete the group:
bash
Copy code
```
net localgroup LabGroup /delete
```