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| SCHOOL OF INFORMATION AND TECHNOLOGY | | |
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| IDC1 | DATE SUBMITTED: |

# SYSADM1 – Introduction to File Systems in Windows and Linux

# Requirement:

* A virtual machine running Linux and Windows OS

# Instructions:

**Part A: Windows File System**

1. **Open File Explorer:** Click the File Explorer icon on your desktop or press the Windows key + E.
2. **Navigate to your Documents folder:** This is usually the default location for user files.
3. **Create a new folder:** Right-click in an empty space, select "New," then "Folder." Name it "Lab1\_Windows."
4. **Create a text file:** Right-click in the "Lab1\_Windows" folder, select "New," then "Text Document." Rename it to "info.txt."
5. **Open the text file:** Double-click the "info.txt" file to open it in Notepad.
6. **Type some text:** Write a short paragraph about yourself or the purpose of the file.
7. **Save the file:** Close the Notepad window and save the changes.
8. **Create a subfolder:** Create a new folder inside "Lab1\_Windows" called "Data."
9. **Copy the text file:** Copy the "info.txt" file to the "Data" subfolder.
10. **Rename the copied file:** Rename the copied file to "data.txt.
11. Create a folder named "LabFiles" with subfolders for each file type. Use the internet for the resources of the files listed below.

**LabFiles**

* 1. **Text**
     1. large\_text.txt
     2. small\_text.txt
     3. code.cpp
  2. **Images**
     1. image1.jpg
     2. image2.png
     3. image3.bmp
  3. **Audio**
     1. song.mp3
     2. speech.wav
  4. **Video**
     1. clip.mp4

1. **Check file properties:** Right-click on the "info.txt" file and select "Properties." Explore the General, Details, and Security tabs to understand file attributes like creation date, size, and read-only status.
2. **Change file attributes:** Try changing the file attributes (e.g., read-only, hidden) using the Properties dialog. Observe the changes in File Explorer.
3. **Share the folder:** Right-click on the "Lab1\_Windows" folder, select "Properties," and then the "Sharing" tab. Share the folder with a specific user or group, setting appropriate permissions (e.g., Read, Write, Full control)
4. **Create an archive:** Use WinRAR or 7-Zip to create a compressed archive of the "Lab1\_Windows" folder.
5. **Extract an archive:** Create a new folder, then extract the created archive into it.

**Part B.** Create a log report structure

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| **File** | **Location** | **Date Created** | **Date Modified** | **Size** | **Attributes** |
| * 1. **Lab1\_Windows** | **Z:\** | **Wednesday, ‎ 21 ‎August ‎2024, ‏‎ 8:36:25 am** |  | **8.00 KB** | **Read-only** |
| **Data Folder** | **Z:\Lab1\_Windows** | **Wednesday,  ‎21 ‎August ‎2024, ‏‎8:38:53 am** |  | **1kb** | **Read-only** |
| data.txt | Z:\Lab1\_Windows | Wednesday, ‎ 21 ‎August ‎2024 8:36:53 am | Wednesday,  ‎21 ‎August ‎2024 ‏‎8:38:39 am | 1kb | Read-only |
| **Info.txt** | **Z:\Lab1\_Windows** | **‎Wednesday,  ‎21 ‎August ‎2024, ‏‎ 9:18:49 am** | **‎Wednesday, ‎ 21 ‎August ‎2024 ‏‎9:19:19 am** | **1kb** | **Read-only** |
| **LabFiles** | **Z:\** | **‎Wednesday, ‎ 21 ‎August ‎2024, ‏‎ 8:39:40 am** |  |  |  |
| **Audio** | **Z:\LabFiles** | **Wednesday,  ‎21 ‎August ‎2024, ‏‎ 8:40:43 am** |  | **47.7MB** | **Read-only** |
| Song.mp3 | Z:\LabFiles\Audio | Wednesday, ‎21 ‎August ‎2024, ‏‎9:07:47 am | Wednesday, ‎21 ‎August ‎2024, ‏‎ 9:07:50 am | 5.30 MB |  |
| Speech.wav | Z:\LabFiles\Audio | Wednesday,  ‎21 ‎August ‎2024, ‏‎ 9:08:58 am | Wednesday, ‎ 21 ‎August ‎2024,  ‏‎9:09:01 am | 42.4 MB |  |
| **Images** | **Z:\LabFiles** | **‎Wednesday,  ‎21 ‎August ‎2024, ‏‎ 8:40:30 am** | **‎** | **452 KB** | **Read-only** |
| Image1.jpg | Z:\LabFiles\Images | Wednesday, ‎ 21 ‎August ‎2024, ‏‎8:57:51 am | Wednesday, ‎ 21 ‎August ‎2024, ‏‎ 8:58:06 am | 19kb |  |
| Image2.png | Z:\LabFiles\Images | Wednesday, ‎ 21 ‎August ‎2024, ‏‎ 8:59:50 am | ‎Wednesday, ‎ 21 ‎August ‎2024, ‏‎ 9:00:07 am | 238kb | Read-only |
| Image3.bmp | Z:\LabFiles\Images | ‎Wednesday, ‎ 21 ‎August ‎2024, ‏‎ 9:06:08 am | Wednesday,  ‎21 ‎August ‎2024, ‏‎ 9:06:09 am | 148kb |  |
| **Text** | **Z:\LabFiles** | **Wednesday,  ‎21 ‎August ‎2024, ‏‎8:40:03 am** |  | **40.0 KB** | **Read-only** |
| Code.cpp | Z:\LabFiles\Text | ‎Wednesday, ‎21 ‎August ‎2024, ‏‎8:54:11 am | Wednesday, ‎21 ‎August ‎2024, ‏‎8:55:48 am | 4kb |  |
| large\_text.txt | Z:\LabFiles\Text | Wednesday, ‎21 ‎August ‎2024, ‏‎8:41:26 am | Wednesday, ‎21 ‎August ‎2024, ‏‎8:48:37 am | 32kb |  |
| small\_text.txt | Z:\LabFiles\Text | Wednesday, ‎21 ‎August ‎2024, ‏‎8:41:38 am | ‎Wednesday, ‎21 ‎August ‎2024, ‏‎8:51:21 am | 4000kb |  |
| **Video** | **Z:\LabFiles** | **Wednesday, ‎21 ‎August ‎2024, ‏‎8:40:52 am** |  | **455 KB** | **Read-only** |
| clip.mp4 | Z:\LabFiles\Video | ‎Wednesday, ‎21 ‎August ‎2024, ‏‎9:33:45 am | ‎Wednesday, ‎21 ‎August ‎2024, ‏‎9:33:46 am | 456 KB |  |

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| **DATE** | **ISSUES ENCOUNTERED** | **RESOLUTION** |
| **21 AUG 2024** | * When trying to extract files from drive Z, Windows Explorer crashes every time I select the archived file. | * I extracted the files from the default home directory in Windows Explorer, which is typically where the file manager opens by default when you first access it. |