Windows 10 - Identify File System, Set File Permission, and Copy

This presentation is two sets. The first set identifies the file system, set file permissions and copies a file graphically. The second set identifies the file system, set file permissions and copies a file on the command line.

Operating System: Windows 10 Anniversary Update

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The presentation logs onto Windows.
On this system, the presentation will use the "Local Disk (C:)" and "MSCTC (E:)". MSCTC is a USB drive connected to the system.
The presentation right clicks on a drive as shown. The presentation selects "Properties" on the menu shown.
The file system information is found under the "General" tab as shown.
The presentation right clicks on a drive as shown. The presentation selects "Properties" on the menu shown.
The file system information is found under the "General" tab as shown.
The presentation right clicks on a file as shown. This is a copy of a file used for this demonstration. The presentation selects "Properties" from the menu as shown.
The presentation selects the "Edit" button.
The presentation selects the "Add" button.
The presentation enters the logon name to add permissions. The example uses the "guest" account. The presentation selects "OK" to continue.
The presentation selects the "guest" account. The presentation insures only the desired permissions are checked under the "Allow" column. The presentation want "guest" to have "Read" and "Read & Execute" only as shown. The presentation selects "OK" to continue.
The presentation sees the permission are correct. The presentation documents (screen shot) the settings and selects "OK" to continue.
The presentation copies the file to the USB drive as shown.
The presentation right clicks on the file. Remember, this is the copy on the USB drive. The permissions are not under the "General" tab.
The presentation right clicks on the file. Remember, this is the copy on the USB drive. The permissions are not under the "Details" tab. This file system must not be capable of setting permissions.
Now, the presentation will use the command line to do the project.
The presentation opens the command prompt as shown. The "cd Documents" command makes life a bit easier.

Sometimes the screen is very different. The complete command sequence to your Documents folder follows.

```
cd %HOME\PATH\%\Documents
```
C:\Users\preuss>cd Documents

C:\Users\preuss\Documents>fsutil fsinfo drives

Drives: A:\ C:\ D:\ E:\

C:\Users\preuss\Documents>

The presentation uses the "fsutil" command as show to list all the attached drives.
The presentation uses the "fsinfo" command to gather information about drive "c:" as shown.
The results of "fsinfo" are shown. The presentation runs the "fsinfo" command as shown at the bottom. The >> sends the screen text to the file "drive_info01.txt". The file name may change, but ending the name with .txt is highly recommended.
The presentation uses the "fsinfo" command to gather information about drive "e:" as shown.
The results of "fsinfo" are shown. The presentation runs the "fsinfo" command as shown at the bottom. The >> sends the screen text to the file "drive_info01.txt". The file name may change, but ending the name with .txt is highly recommended.
The "dir" command lists all the files in the current folder. The presentation uses the "icacls" command to change the permission settings for "list01.txt".

The logon "guest" will have "Read" permission only to the file "list01.txt".
C:\Users\preuss\Documents>icacls list01.txt /grant guest:(R)
processed file: list01.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\preuss\Documents>

The permission change for "guest" on the file "list01.txt" is successful.
The presentation uses the "icacls" command to check the permission settings as shown.
C:\Users\preuss\Documents>icacls list01.txt /grant guest:(R)
processed file: list01.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\preuss\Documents>icacls list01.txt
list01.txt WIN10-CPTR1104\Guest:(R)
    NT AUTHORITY\SYSTEM:(I)(F)
    BUILTIN\Administrators:(I)(F)
    WIN10-CPTR1104\preuss:(I)(F)

Successfully processed 1 files; Failed processing 0 files

C:\Users\preuss\Documents>icacls list01.txt >> drive_info01.txt

The presentation sends a copy of the permission settings to "drive_info01.txt" as shown.

The presentation is collecting all the required evidence in one file.
C:\Users\preuss\Documents>icacls list01.txt /grant guest:(R)
processed file: list01.txt
Successfully processed 1 files; Failed processing 0 files

C:\Users\preuss\Documents>icacls list01.txt
list01.txt WIN10-CPTR1104\Guest:(R)
NT AUTHORITY\SYSTEM:(I)(F)
BUILTIN\Administrators:(I)(F)
WIN10-CPTR1104\preuss:(I)(F)

Successfully processed 1 files; Failed processing 0 files

C:\Users\preuss\Documents>icacls list01.txt >> drive_info01.txt

C:\Users\preuss\Documents>copy list01.txt e:\

Since the file "list01.txt" is in the current folder, the presentation uses the shown "copy" command. This copies the file "list01.txt" to the root of drive "E:".
C:\Users\preuss\Documents>icacls list01.txt /grant guest:(R)
Successfully processed 1 files; Failed processing 0 files

C:\Users\preuss\Documents>icacls list01.txt
list01.txt WIN10-CPTR1104\Guest:(R)
    NT AUTHORITY\SYSTEM:(I)(F)
    BUILTIN\Administrators:(I)(F)
    WIN10-CPTR1104\preuss:(I)(F)

Successfully processed 1 files; Failed processing 0 files

C:\Users\preuss\Documents>icacls list01.txt >> drive_info01.txt

C:\Users\preuss\Documents>copy list01.txt e:\1 file(s) copied.

C:\Users\preuss\Documents>
The presentation checks the permission settings for "list01.txt" on drive "E:" as shown.
C:\Users\preuss\Documents>icacls e:\list01.txt >> drive_info01.txt

The presentation sends a copy of the "list01.txt" on drive "E:" to the file "drive_info01.txt" as shown.
C:\Users\preuss\Documents>icacls e:\list01.txt >> drive_info01.txt
C:\Users\preuss\Documents>notepad drive_info01.txt

The presentation uses notepad to view the collected data.
This is a partial list of the data in "drive_info01.txt".