4/10/2020 TestOut LabSim

11.2.8 File Management Commands

The command window in Windows is accessed by using the Command Prompt shortcut on the Start menu or by typing cmd into the search field on the taskbar. Remember the following things when working with the command prompt:

- To view the list of commands you can execute, type help. This will display the entire list of available commands.
- To see detailed information about a specific command, type the command followed by /?.
- Adding | **more** after a command will cause the output to list one screen at a time.
 - Press the Enter key to scroll down a line.
 - Press the Spacebar to scroll down a screen at a time.
- You can repeat a command by pressing the Up arrow key at the command prompt. This will cause the most recent command to appear.

The following table lists common file management commands:

Command	Description
	Use the cd command to work with the current directory. Common switches used with cd are:
cd	 cd by itself shows the current directory (the current directory is usually shown in the command prompt as well). cd [folder name] changes the current directory to the one specified (if the directory is within the current directory). cd [full path] changes to the directory specified by the path. cd changes the current directory to the immediate parent directory (moves up one directory level). cd /D [file] [path] changes the current drive in addition to changing the directory.
	Use the dir command to display a list of files and subdirectories in a directory. Common switches used with dir are:
dir	 dir /p pauses output at every page. dir /s displays information in subdirectories. dir /a[xx] displays files with the specified attributes: Options may be combined, such as /arh, to show read-only, hidden files.
	 Use - to show files without an attribute. For example, dir /a-r shows files that are <i>not</i> read only.
md mkdir	Use the md and mkdir commands to create (make) a directory. Common switches used with md are:
	 md [directory] creates a new directory in the current directory.
	 md [path] [directory] creates a new directory in the directory specified by the path.
_	Use the rd command to delete (remove) a directory. Common switches used with rd are:
	 rd [directory] removes the specified directory within the current directory.
rd	• rd [path] [directory] removes the directory specified in the path.
	 rd /s removes subdirectories in addition to files in the current directory. rd /q will not prompt you before each deletion.
сору	Use the copy command to copy files from one location to another. Common switches used with copy are:
	 copy [source] [destination] copies the specified file to the new location. copy [folder] [*.*] [path] [destination] copies all files with extensions in a folder to the new location. copy /a specifies that the file is an ASCII text file.
	copy /b specifies that the file is a binary file.
	 copy /n copies files using short filenames. copy /y will not prompt you before each overwrite operation. copy /v verifies files after they are copied.
	Be aware of the following for how moving (copying) files between partitions affects the file attributes:
	 When copying files from a FAT32 partition to another partition, the file attributes are retained. When copying files from an NTFS partition to a FAT32 partition, attributes such as encryption and permissions that are no available in FAT32 are removed.
хсору	Use the xcopy command to copy files and directory trees. Common switches used with xcopy are:
	 xcopy /a copies files with the archive attribute set and doesn't change the attribute. xcopy /m copies files with the archive attribute set and turns off the archive attribute. xcopy /d copies files changed on or after the specified date. If no date is given, it copies only those files whose source tim is newer than the destination time. xcopy /p prompts you before creating each destination file. xcopy /s copies directories and subdirectories (except empty ones).
	 xcopy /e copies directories and subdirectories, including empty ones.
	 xcopy /h copies hidden and system files also.

4/10/2020 TestOut LabSim

	 xcopy /r overwrites read-only files. xcopy /k copies attributes. Normal xcopy will reset read-only attributes. xcopy /y overwrites existing files without prompting.
robocopy	The robocopy command (short for Robust File Copy) is used to copy entire folder structures between volumes or across a network. The benefit of using robocopy is that all NTFS file permissions and attributes are maintained and interrupted transfers can be resumed. Common switches used with robocopy uses the following are: robocopy [source_folder] [destination] [options] copies entire folder structures to destination. robocopy /s copies subdirectories, excluding empty directories robocopy /e copies subdirectories, including empty directories robocopy /mov moves all specified files and directories, and deletes them from the source when complete
	 robocopy /copyall copies all files attributes and information RoboCopy is a very powerful copy utility and should be used only if you fully understand how to use it.
edit	Use the edit command to view, create, or modify files. Common switches used with edit are:
	 edit [file] specifies initial files(s) to load. Wildcards and multiple file specs can be given. edit /r load file(s) in read-only mode.
attrib	Use the attrib command to change or view the attributes of one or more files. Use the attrib command by itself to display a list of all files in the current directory. Attributes that can be set or removed are identified by the attribute letter: R = read-only A = archive S = system H = hidden I = not indexed
	You cannot encrypt files using the attrib command. Instead, use the cipher command or edit the properties of the file.
	 Use attrib + to add an attribute to a file. For example, the following command sets the R attribute for the myfile.txt file: attrib +r myfile.txt. Use attrib - to remove an attribute from a file. For example, the following command removes the R attribute from a file: attrib -r myfile.txt.
	Multiple attributes can be assigned or removed at a time. For example, the following command assigns both R and S attributes to the file: attrib + r + s myfile.txt . You can also change attributes by right-clicking a file and selecting Properties from the menu.
del	Use the del command to delete one or more files on the system. Common switches used with del are: del [file] specifies the file to delete. Wildcards and multiple filenames can be given.
	• del /p prompts for confirmation before deleting the specified file(s).

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