11.4.2.7 Lab – File System Commands

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Introduction

Steps to implement

Questions and answers

Quiz

Introduction

In this lab, we will use **CLI commands** to manage files and folders in Windows.

Recommended Equipment:

• A computer running Windows





Log on to a Windows computer. The account ITEUser is used as the example user account throughout this lab.



To access the Windows command prompt, click Start and enter cmd. Select Command Prompt Or cmd.exe to continue





STEP 1

Access the Windows command prompt

Type cd at the command prompt.

Question: What is the current directory?

CD is a command found inside Windows the Command Processor (cmd) that allows for change of the current working directory of a shell instance. Example:

The directory C:\Users\ITEUser

STEP 2. Create and change directories In this step, you will use the change directory (cd), make directory (md), and directory (dir) commands.

Command Prompt

Microsoft Windows [Version 10.0.17763.55] (c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\codru≻cd\

C:\>cd windows\system32

C:\Windows\System32>cd..

C:\Windows>d:

D:\>cd /d C:\Windows

C:\Windows>

Type dir at the command prompt to list the files and folders that are in the current folder

C:\Users\ITEUser> dir Volume in drive C has no label. Volume Serial Number is 9055-35E9

Directory of C:\Users\ITEUser

04/27/2019	09:21 AM	<dir></dir>				
04/27/2019	09:21 AM	<dir></dir>				
04/25/2019	11:39 AM	<dir></dir>	3D Object	s		
04/25/2019	11:39 AM	<dir></dir>	Contacts			
04/26/2019	10:29 AM	<dir></dir>	Desktop			
04/25/2019	11:39 AM	<dir></dir>	Documents	5		
04/25/2019	11:39 AM	<dir></dir>	Downloads	5		
<some omitted="" output=""></some>						
	0 File(:	s)	0 bytes			
	15 Dir(s)) 32,671,90	69,280 bytes fr	:ee		

STEP 2. Create and change directories In this step, you will use the change directory (cd), make directory (md), and directory (dir) commands.

In the current directory, use the md command to create three new folders: ITEfolder1, ITEfolder2, and ITEfolder3. Type md ITEfolder1 and press Enter. Create ITEfolder2 and ITEfolder3.

Note: The command mkdir performs the same function as the command md.

C:\Users\ITEUser> md ITEfolder1
C:\Users\ITEUser> md ITEfolder2 ITEfolder3

STEP 2

Type dir to verify that the folders have been created.

Type cd ITEfolder3 at the command prompt and press Enter.

Question: Which folder are you in now?

User

The current directory is C:\Users\ITEUser\ITEfolder3

SIEP2

Current Working Computer Name Directory ITEUser @ iteuser-VirtualBox : ~/ITEfolder3 **Privilege Level**

ITEfolder4 folder	4 in the current dire r, create a folder name d to verify the folder cre
What command the nested folde	d or commands did y ers?
This can be accomplished in commands to create the folder	
	C:\Users\ITEUser\ITE C:\Users\ITEUser\ITE
Change directory as necessary you are in ITEfolder5.	y until

STEP 2

ectory. Within the ned ITEfolder5. Use eation.

you use to create

Efolder3> md ITEfolder4\ITEfolder5

Efolder3> md ITEfolder4 Efolder3> cd ITEfolder4 TEfolder3\ITEfolder4> md ITEfolder5

Type cd .. to change the current directory. Each .. is a shortcut to move up one level in the directory tree.

Questions: After issuing the cd.. command, what is your directory now?

What would be the current directory if you issue this command at C:\Users\ITEUser\ITEfolder3 \ITEFolder4?

ITEFolder4

SIP2

C:\Users\ITEUser\ITEfolder3\

• C:\Users\ITEUser\ITEFolder3

Navigate to the C:\Users\ITEUser\ITEfolder1 directory. Type cd .. \ITEfolder1 at the prompt

Echo - to display a message at the command prompt. The > - to redirect the message from the screen to a file.

C:\Users\ITEUser\ITEfolder1> echo This is doc1.txt > doc1.txt C:\Users\ITEUser\ITEfolder1> echo This is doc2.txt > doc2.txt C:\Users\ITEUser\ITEfolder1> echo This is file1.txt > file1.txt C:\Users\ITEUser\ITEfolder1> echo This is file2.txt > file2.txt

C:\Users\I	TEUser\ITEFo	lder1> dir
<some output<="" td=""><td>t omitted></td><td></td></some>	t omitted>	
04/29/2019	08:05 AM	19 doc1.txt
04/29/2019	08:06 AM	19 doc2.txt
04/29/2019	08:08 AM	20 file1.txt
04/29/2019	08:08 AM	20 file2.txt
	4 File(s)	78 bytes
	2 Dir(s)	32,625,397,760 bytes free

more / type - to view the content of the newly created text files

C:\Users\ITEUser\ITEfolder1> more doc1.txt This is doc1.txt

C:\Users\ITEUser\ITEfolder1> type doc2.txt This is doc2.txt

- - - - - ---

SIEP 3

dir - to verify the files are in the ITEfolder1 folder

- type move doc2.txt C:\Users\ITEUser\ITEfolder2 to move the file doc2.txt to the C:\Users\ITEUser\ITEfolder2 directory.
- C:\Users\ITEUser\ITEfolder1> move doc2.txt C:\Users\ITEUser\ITEfolder2 1 file(s) moved.

dir - to verify that doc2.txt is no longer in the current directory.

• Navigate to C: \Users \ITEUser \ITEfolder2 to change the directory to ITEfolder2.

dir - to verify doc2.txt has been moved

 copy doc2.txt doc2 copy.txt to create a copy of doc2.txt.

dir - to verify a copy of the file has been created

C:\Users\ITEUser\ITEfolder2> dir <some output omitted> Directory of C:\Users\ITEUser\ITEfolder2

04/30/2019 09:07 AM 19 doc2.txt 04/30/2019 09:07 AM 19 doc2 copy.txt 2 File(s) 38 bytes 2 Dir(s) 31,753,068,544 bytes free

S|PP4

Copy, delete, and move files

 move command to move doc2_copy.txt to ITEfolder1. Type move doc2_copy.txt ..\ITEfolder1.

C:\Users\ITEUser\ITEfolder2> move doc2_copy.txt ..\ITEfolder1 CODY. Ceete 1 file(s) moved.

• A copy of the file doc2.txt can be created in a new location using the copy command. At the prompt, enter the doc2.txt сору ..\ITEfolder1\doc2_new.txt.

C:\Users\ITEUser\ITEfolder2> copy doc2.txt ..\ITEfolder1\doc2_new.txt 1 file(s) copied.

• The file doc2.txt can also be moved to a new location with a new filename using the move doc2.txt command. Туре move ..\ITEfolder1\doc2_new.txt at the prompt.

C:\Users\ITEUser\ITEfolder2> move doc2.txt ..\ITEfolder1\doc2 move.txt 1 file(s) moved.

SIP4

and move files

 dir ..\ITEfolder1 to view the content in ITEfolder1 without leaving the current directory. C:\Users\ITEUser\ITEfolder2> dir ..\ITEfolder1 <some output omitted> Directory of C:\Users\ITEUser\ITEfolder1 04/29/2019 12:08 PM <DIR> . 04/29/2019 12:08 PM <DIR> . 04/29/2019 08:05 AM 19 doc1.txt 04/29/2019 08:06 AM 19 doc2_copy.txt 04/29/2019 08:06 AM 19 doc2_move.txt 04/29/2019 08:06 AM 19 doc2_new.txt 04/29/2019 08:06 AM 19 doc2_new.txt 04/29/2019 08:08 AM 20 file1.txt 04/29/2019 08:08 AM 20 file1.txt 04/29/2019 08:08 AM 20 file2.txt 6 File(s) 116 bytes 2 Dir(s) 31,467,700,224 bytes_free

- Change the current directory to ITEfolder1. Type cd ..\ITEfolder1 at the prompt.
- Move file1.txt and file2.txt into ITEfolder3. To move all the files that contain the word file into ITEfolder3 with one command, use a wildcard (*) character to represent one or more characters. Type move file* ..\ITEfolder3.

```
C:\Users\ITEUser\ITEfolderl> move file* ..\ITEfolder3
C:\Users\ITEUser\ITEfolder1\file1.txt
C:\Users\ITEUser\ITEfolder1\file2.txt
2 file(s) moved.
```

STEP 4

Copy, delete, and move files

• To view the content of the file doc2_new.txt, use the type or more command at the prompt.

C:\Users\ITEUser\ITEfolder1> type doc2 new.txt This is doc2.txt

- the • Use command ren to rename doc2_new.txt to doc3.txt. Use the dir command to display the content in the directory. c:\Users\ITEUser\ITEfolder1> ren doc2_new.txt file.log
- Use the type or more command to view the content of the newly rename file file.log.

C:\Users\ITEUser\ITEfolder1> more file.log This is doc2.txt

• Use the del to delete a file or multiple files

S|P|4

Copy, delete, and move files

What single command would you use to delete all the files with doc2 in the filename?

Use the command to remove the files with doc2 in the filename.

What command would you use to delete all the files in the directory?

Use the command to remove the files.

C:\Users\ITEUser\ITEfolder1> del doc2*

C:\Users\ITEUser\ITEfolder1> del *.*

C:\Users\IT <some output Directory 04/29/2019 04/29/2019 04/29/2019 04/29/2019

SEP 5 Use the xcopy and robocopy commands.

In this step, the xcopy and robocopy commands are used to copy the content in a directory

- xcopy to copy the content of one folder to another. current directory.
- of a directory to a new destination.

C:\Users\ITEUser\ITEfolder1> robocopy /E C:\Users\ITEUser\ITEfolder3\ITEfolder4\ C:\Users\ITEUser

Note the information provided by the command during the copying process. Navigate to C:\Users\ITEUser to verify that the folder ITEfolder5 is copied.

Note the . at the end of the command is a shortcut for the

• help xcopy or xcopy /? to determine which switch would allow the xcopy command to copy all the files and directories. • The robocopy command can also be used to copy the content

C:\Users\ITEUser> rd ITEfolder2

You were not able to delete the directory because it was not empty.

c:\Users\ITEUser\ITEfolder3> rd /S ITEfolder1 ITEfolder4, Are you sure (Y/N)? y



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\sum | |-|-

erd ITEfolder2 to delete the empty directory and verify that the directory was deleted.

Use the rd ITEfolder1 to delete the directory. Verify the directory removal using the dir command. Were you able to delete the directory? Explain.

• Use rd /? command to determine the switch that allows the deletion of a non-empty directory

• Use the appropriate commands to delete all the text files and folders that you have created in this lab. Type exit to close the command prompt window.

What are the advantages of using GUI vs. CLI?

GUI

- + Easy to learn and use
- + Little training
- + Amenable to multi-tasking

CLI

- + More flexible and powerful
- + Faster for experienced users
- + Can combine commands





CHECKYOUR KNOWLEDGE



QUZ