Windows 8.0 Encrypting folders on the command line

This presentation shows encrypting a folder using the cipher command. The presentation shows unencrypting a folder using the cipher command.

Preuss
3/11/2014

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Player

Tim Preuss

Recuva

Computer

Recycle Bin

Gpg4win Document...

GPA

Kleopatra

Oracle VM VirtualBox

The presentation is logon as a non-administration account on Windows 8.0.

12:29 PM
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Player

Start

Tim
Preuss

The presentation goes to the Windows 8.0 Start Screen from the desktop.

11
Tuesday

Internet Explorer

Store
2

Bing

Photos

Maps

SkyDrive

Messaging

S&P 500 - 1:02 PM EDT
1,871.45 ▼ -0.30%

NFL free agency 2014: Likely landing spots for top players

Games

Desktop

30°
Moorhead
Partly Cloudy
31°/8°
Weather

Hunt for missing jet widens to distant waters

Music

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Player

Start

Tim
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Mail

11
Tuesday

Internet Explorer

Store 2

Trending
Justin Bieber
Brady Quinn

Bing

People

Photos

Messaging

NASDAQ - 1:47 PM EDT
4,323.95 ▼ -0.24%

Games

Desktop

32°
Moorhead
Partly Cloudy
32°/8°

Weather

to distant waters

Music

The presentation opens the All apps option from the Start Menu.

All apps

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Player

Apps

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Windows Accessories

- Calculator
- Character Map
- Math Input Panel
- Notepad
- Sound Recorder
- Steps Recorder
- Sticky Notes
- Windows Fax and Scan
- Windows Journal
- Windows Media
- Magnifier

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of Access

- Narrator
- On-Screen Keyboard
- Windows Speech Recognition

Windows System

- Command Prompt
- Computer
- Control Panel
- Default Programs
- File Explorer
- Help and Support
- Run
- Task Manager
- Windows Defender
- Windows Easy Transfer
- Windows Easy Transfer Reports
- Windows PowerShell

The presentation selects the Command Prompt, then chooses to Run as administrator.

Unpin from Start | Unpin from taskbar | Open new window | Run as administrator | Open file location | All apps

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Player

User Account Control

Do you want to allow the following program to make changes to this computer?

Program name: Windows Command Processor
Verified publisher: **Microsoft Windows**
File origin: Hard drive on this computer

To continue, type an administrator password, and then click Yes.

Snuffy

Password

nnesota....

Yes No

The presentation enters the password for an administration account on Windows 8.

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Player

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Recuva

Administrator: Command Prompt

```
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Windows\system32>_
```

This is the command prompt for the presentation. The presentation does not wish to make mistakes in an operating system directory.

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3/11/2014

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Player

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Recuva

Administrator: Command Prompt

```
C:\Windows\system32>md c:\temp_
```

The presentation creates a temporary directory/folder/subdirectory.

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Player

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Recuva

Administrator: Command Prompt

```
C:\Windows\system32>md c:\temp
C:\Windows\system32>cd\temp_
```

The presentation changes the default directory to the newly created directory.

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Player

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Recuva

Administrator: Command Prompt

```
C:\Windows\system32>md c:\temp
C:\Windows\system32>cd\temp
C:\temp>cls
```

The presentation will clear the Command Prompt screen.

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12:32 PM
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Player

Administrator: Command Prompt

```
C:\temp>dir
 Volume in drive C has no label.
 Volume Serial Number is CEEB-FF81

 Directory of C:\temp

03/11/2014  04:09 PM    <DIR>          .
03/11/2014  04:09 PM    <DIR>          ..
03/11/2014  01:11 PM             1,592 group.txt
03/11/2014  03:54 PM             2,665 takeown.txt
03/11/2014  04:09 PM    <DIR>          victim
               2 File(s)          4,257 bytes
               3 Dir(s)  22,424,875,008 bytes free

C:\temp>_
```

The presentation lists the files in the temp folder.

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3/11/2014

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Player

Administrator: Command Prompt

```
C:\temp>dir
 Volume in drive C has no label.
 Volume Serial Number is CEEB-FF81

 Directory of C:\temp

03/11/2014  04:22 PM    <DIR>          .
03/11/2014  04:22 PM    <DIR>          ..
03/11/2014  01:11 PM             1,592 group.txt
03/11/2014  03:54 PM             2,665 takeown.txt
03/11/2014  04:09 PM    <DIR>          victim
               2 File(s)          4,257 bytes
               3 Dir(s)  22,424,875,008 bytes free

C:\temp>cipher /E /C /S:victim

 Setting the directory victim to enc

 Encrypting files in C:\temp\victim\

group.txt                  [OK]
takeown.txt                [OK]

3 file(s) [or directorie(s)] within

Converting files from plaintext to c
plaintext on the disk volume(s). It
CIPHER /W:directory to clean up the

C:\temp>_
```

The presentation issues the cipher command to encrypt the folder c:\temp\victim. The presentation gives the command cipher. The second item or first switch (/E) tells cipher to encrypt the files for the current logon. The third item or second switch (/C) displays information about the files and folders. The fourth item or third switch (/S:) performs the action on the folder listed and all files and subfolders. The fifth item is the folder name (victim).

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Administrator: Command Prompt

```
C:\temp>cipher /D /C /S:victim

 Setting the directory victim not to

 Decrypting files in C:\temp\victim\

group.txt                [OK]
takeown.txt              [OK]

3 file(s) [or directorie(s)] within

C:\temp>_
```

The presentation issues the cipher command to decrypt the folder c:\temp\victim. The presentation gives the command cipher. The second item or first switch (/D) tells cipher to decrypt the files from the current logon. The third item or second switch (/C) displays information about the files and folders. The fourth item or third switch (/S:) performs the action on the folder listed and all files and subfolders. The fifth item is the folder name (victim).

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Administrator: Command Prompt

The presentation generates the help topics for the cipher command.

```
C:\temp>cipher /?
Displays or alters the er                                    itions.

  CIPHER [/E | /D | /C]
         [/S:directory] [

  CIPHER /K [/ECC:256|384

  CIPHER /R:filename [/SM

  CIPHER /U [/N]

  CIPHER /W:directory

  CIPHER /X[:efsfile] [filename]

  CIPHER /Y

  CIPHER /ADDUSER [/CERTHASH:hash | /CERTFILE:filename | /USER:username]
         [/S:directory] [/B] [/H] [pathname [...]]

  CIPHER /FLUSHCACHE [/SERVER:servername]

  CIPHER /REMOVEUSER /CERTHASH:hash
         [/S:directory] [/B] [/H] [pathname [...]]

  CIPHER /REKEY [pathname [...]]

    /B        Abort if an error is encountered. By default, CIPHER continues
              executing even if errors are encountered.
    /C        Displays information on the encrypted file.
    /D        Decrypts the specified files or directories.
    /E        Encrypts the specified files or directories. Directories will be
```

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