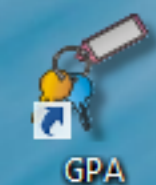
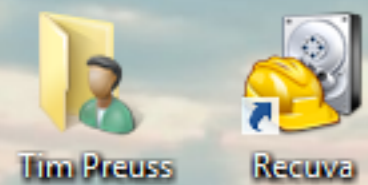


Windows 8.0 Encrypting folders on the command line

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

Preuss

3/11/2014



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


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

Start

Tim
Preuss

Mail

11
Tuesday

Internet Explorer

Store 2

Trending
Justin Bieber
Brady Quinn A
Bing

People

Photos

Messaging

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

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

Desktop

32°
Moorhead
Partly Cloudy
32°/8°

Games

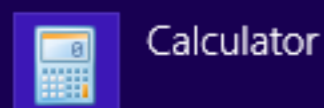
Music



All apps

Apps

Windows Accessories



Calculator



Character Map



Math Input Panel



Notepad



Steps Recorder



Sticky Notes



Windows Fax and Scan



Windows Journal



Windows Media



Narrator



On-Screen Keyboard



Windows Speech Recognition



Help and Support



Run



Task Manager



Windows Defender

Windows System



Command Prompt



Windows Easy Transfer



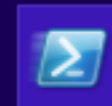
Computer



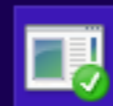
Windows Easy Transfer Reports



Control Panel



Windows PowerShell



Default Programs



File Explorer

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


Sound Recorder




Magnifier

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

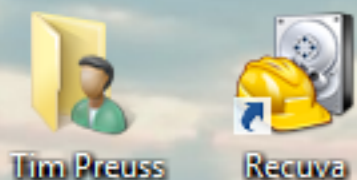
To continue, type an administrator password, and then click Yes.

 Snuffy

Minnesota....

Yes No

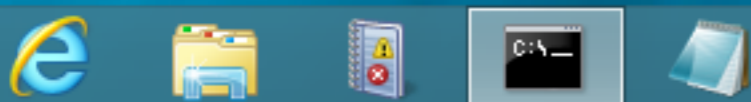
The presentation enters the password for an administration account on Windows 8.

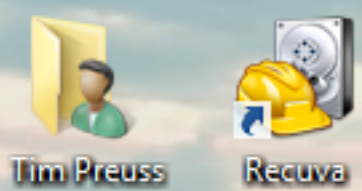


Administrator: Command Prompt

```
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.

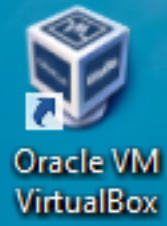


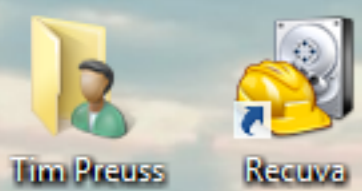


Administrator: Command Prompt

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

The presentation creates a temporary directory/folder/subdirectory.

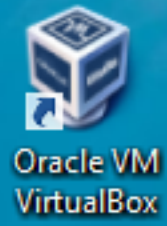


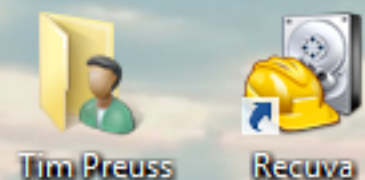


Administrator: Command Prompt

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

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





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.



Oracle VM
VirtualBox





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.

```
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
```

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).

```
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>_
```



```
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).

```
C:\temp>cipher /?
Displays or alters the encryption settings.

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

CIPHER /K [/ECC:256|384] [pathname [...]]

CIPHER /R:filename [/SM] [pathname [...]]

CIPHER /U [/N] [pathname [...]]

CIPHER /W:directory [pathname [...]]

CIPHER /X[:efsfile] [filename] [pathname [...]]

CIPHER /Y [pathname [...]]

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

CIPHER /FLUSHCACHE [/SERVER:servername] [pathname [...]]

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
```

The presentation generates the help topics for the cipher command.

