Windows 8 Encrypting a folder using EFS and Personal Key backup

The presentation will create a folder and encrypt the folder using EFS on Windows 8.0. The presentation will backup the personal key of the encrypting logon. The presentation will logon as administrator level access and attempt to access the file.

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The presentation logs onto Windows 8.0 as a standard person (user).

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File Home Share View

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- Recent places

Libraries
- Documents
  - My Documents
  - Public Documents
- Music
- Pictures
- Videos

Computer
- Local Disk (C:)
- Simple01 (E:)
- Spanned01 (F:)
- Mirror01 (G:)

Network

Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
csci1110-2	2/27/2014 12:45 PM	File folder	
public_test	2/4/2014 2:24 PM	File folder	

The presentation creates a new folder in "Public Documents" folder.

3 items State: Shared

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  - My Documents
  - Public Documents
- Music
- Pictures
- Videos

Computer
- Local Disk (C:)
- Simple01 (E:)
- Spanned01 (F:)
- Mirror01 (G:)

Network

Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
csci1110-2	2/27/2014 12:45 PM	File folder	
EFS_test	2/28/2014 3:41 PM	File folder	
public_test	2/4/2014 2:24 PM	File folder	

The new folder name is "EFS_test".

4 items | 1 item selected | State: Shared

3:41 PM
2/28/2014

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C:\Users\Public\Documents\EFS_test

File Home Share View

Libraries ▸ Documents ▸ Public Documents ▸ EFS_test

Search EFS_test

Favorites
- Desktop
- Downloads
- Recent places

Libraries
- Documents
  - My Documents
  - Public Documents
- Music
- Pictures
- Videos

Computer
- Local Disk (C:)
- Simple01 (E:)
- Spanned01 (F:)
- Mirror01 (G:)

Network

Name	Date modified	Type	Size
1148I01.pdf	2/28/2014 3:42 PM	PDF File	27 KB
1148I02.pdf	2/28/2014 3:42 PM	PDF File	26 KB
1148I03.pdf	2/28/2014 3:42 PM	PDF File	30 KB
1148I04.pdf	2/28/2014 3:42 PM	PDF File	88 KB
1148I05.pdf	2/28/2014 3:42 PM	PDF File	30 KB
1148I06.pdf	2/28/2014 3:42 PM	PDF File	34 KB
1148I07.pdf	2/28/2014 3:42 PM	PDF File	28 KB
1148I08.pdf	2/28/2014 3:43 PM	PDF File	31 KB
1148I09.pdf	2/28/2014 3:43 PM	PDF File	29 KB
1148I10.pdf	2/28/2014 3:43 PM	PDF File	29 KB

10 items State: Shared

These are the files in the folder "EFS_test".

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C:\Users\Public\Documents

File Home Share View

Libraries ▸ Documents ▸ Public Documents ▸

Search Public Documents

Favorites
Desktop
Downloads
Recent places

Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
csci1110-2	2/27/2014 12:45 PM	File folder	
EFS_test	2/28/2014 3:43 PM	File folder	
test	2/4/2014 2:24 PM	File folder	

Open
Open in new window
Pin to Start
7-Zip
Scan for deleted files
Share with
Send to
Cut
Copy
Create shortcut
Delete
Rename
Open folder location
Properties

The presentation right clicks on the "EFS_test" folder. The presentation will select Properties from the list.

4 items | 1 item selected | State: Shared

3:43 PM
2/28/2014

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Libraries
Documents
My Documents
Public Documents
Music
Pictures
Videos

Computer
Local Disk (C:)
Simple01 (E:)
Spanned01 (F:)
Mirror01 (G:)

Network

Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
csci1110-2	2/27/2014 12:45 PM	File folder	
EFS_tes			
public_			

4 items | 1 item selected | State: Share

EFS_test Properties

General | Sharing | Security

EFS_test

Type: File folder

Location: C:\Users\Public\Documents

Size: 348 KB (356,585 bytes)

Size on disk: 368 KB (376,832 bytes)

Contains: 10 Files, 0 Folders

Created: Today, February 28, 2014, 2 minutes ago

Attributes: Read-only (Only applies to files in folder)

Hidden

Advanced...

OK Cancel Apply

The presentation selects the Advanced .. button.

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C:\Users\Public\Documents

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Public Documents
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Videos

Computer
Local Disk (C:)
Simple01 (E:)
Spanned01 (F:)

Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
csci1110-2	2/27/2014 12:45 PM	File folder	
EFS_tes			
public_			

EFS_test Properties

OK Cancel Apply

Advanced Attributes

Choose the settings you want for this folder.

When you click OK or Apply on the Properties dialog, you will be asked if you want the changes to affect all subfolders and files as well.

Archive and Index attributes

- [ ] Folder is ready for archiving
- [x] Allow files in this folder to have contents indexed in addition to file properties

Compress or Encrypt attributes

- [ ] Compress contents to save disk space
- [x] Encrypt contents to secure data

Details

OK Cancel

The presentation puts a check in the "Encrypt contents to secure data" box. The presentation selects the "OK" button.

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File Home Share View

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Computer
Local Disk (C:)
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Network

Name	Date modified	Type	Size
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EFS_tes			
public_			

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EFS_test Properties

General | Sharing | Security

EFS_test

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Created: Today, February 28, 2014, 2 minutes ago

Attributes: Read-only (Only applies to files in folder)

Hidden

Advanced...

OK | Cancel | Apply

The presentation selects "Apply".

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C:\Users\Public\Documents

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Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
csci1110-2	2/27/2014 12:45 PM	File folder	
EFS_tes			
public_			

EFS_test Properties

Confirm Attribute Changes

You have chosen to make the following attribute changes:

encrypt

Do you want to apply this change to this folder only, or do you want to apply it to all subfolders and files as well?

- Apply changes to this folder only
- Apply changes to this folder, subfolders and files

OK Cancel

Attributes: Read-only (Only applies to files in folder)

Hidden Advanced...

OK Cancel Apply

The presentation insures "Apply changes to this folder, subfolders and files" is selected. Then, the presentation selects "OK".

3:44 PM
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C:\Users\Public\Documents

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Music
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Computer
Local Disk (C:)
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Network

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EFS_tes			
public_			

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EFS_test Properties

General | Sharing | Security

EFS_test

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Contains: 10 Files, 0 Folders

Created: Today, February 28, 2014, 3 minutes ago

Attributes: Read-only (Only applies to files in folder)

Hidden

Advanced...

OK | Cancel | Apply

Back up your file encryption key

This helps you avoid permanently losing access to your encrypted files.

The presentation selects "OK" once the screen has cleared.

3:44 PM
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C:\Users\Public\Documents

File Home Share View

Libraries ▸ Documents ▸ Public Documents

Search Public Documents

Favorites
- Desktop
- Downloads
- Recent places

Libraries
- Documents

Spanned01 (F:)

Mirror01 (G:)

Network

Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
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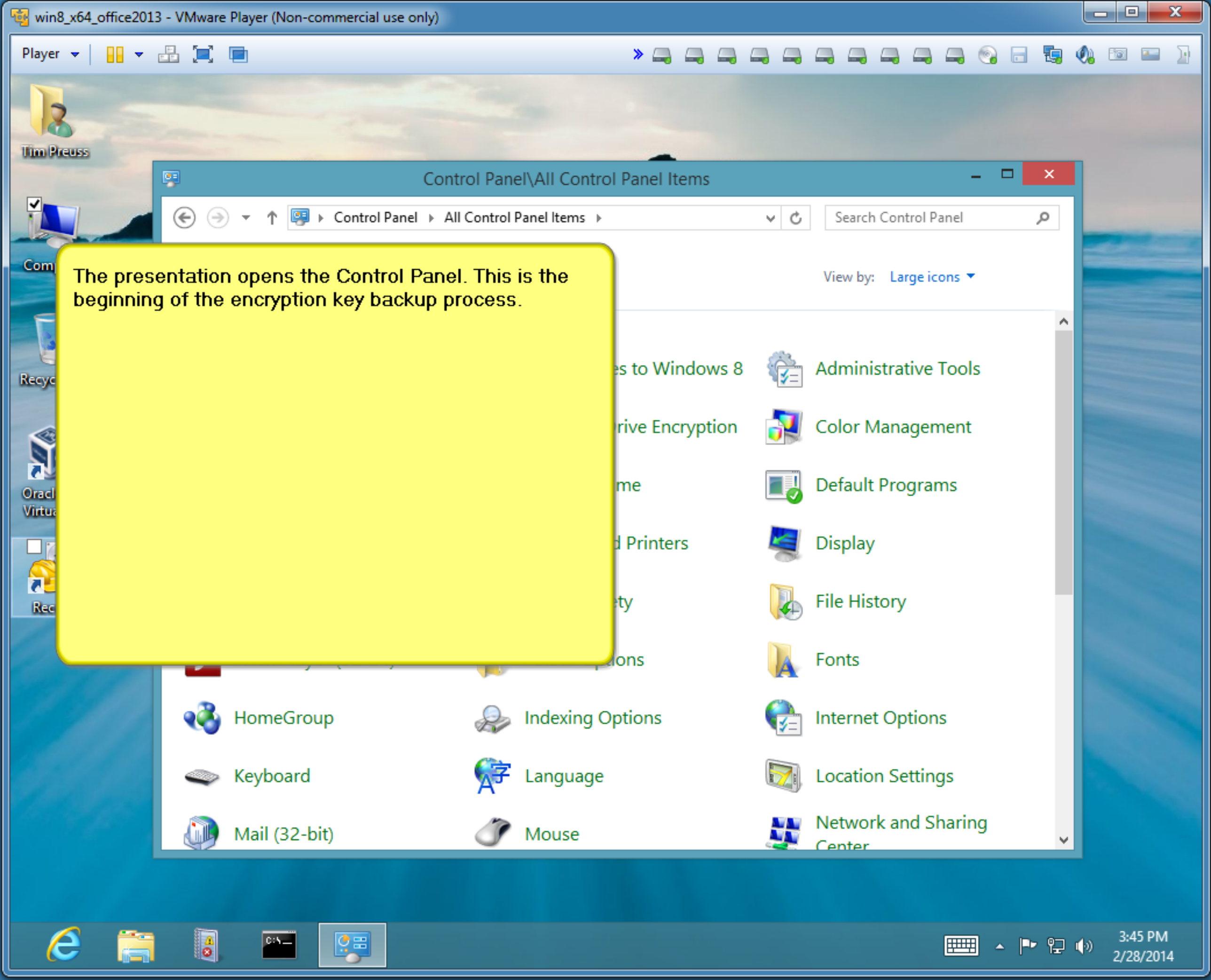
EFS_test	2/28/2014 3:44 PM	File folder	
pu test	2/4/2014 2:24 PM	File folder	

4 items | 1 item selected | State: Shared

Windows color coded the folder to show it is encrypted.

3:44 PM
2/28/2014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Player
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Control Panel\All Control Panel Items
Control Panel ▸ All Control Panel Items ▸
Search Control Panel
View by: Large icons
The presentation opens the Control Panel. This is the beginning of the encryption key backup process.
Administrative Tools
Color Management
Default Programs
Display
File History
Fonts
HomeGroup
Indexing Options
Internet Options
Keyboard
Language
Location Settings
Mail (32-bit)
Mouse
Network and Sharing Center
3:45 PM
2/28/2014

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Player

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Computer

Recycle Bin

Control Panel\All Control Panel Items

Control Panel ▸ All Control Panel Items ▸

Search Control Panel

Adjust your computer's settings

View by: Large icons

Mail (32-bit)

Mouse

Network and Sharing Center

Notification Area Icons

Pen and Touch

Performance Information and Tools

Phone and Modem

Power Options

Features

Recovery

Region

Desktop

Sound

Speech Recognition

Sync Center

System

Tablet PC Settings

Taskbar

Troubleshooting

User Accounts

Windows 7 File Recovery

Windows Defender

Windows Firewall

Windows Update

The presentation selects User Accounts to continue the process of encryption key backup.

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Control Panel\All Control Panel Items\User Accounts

Control Panel ▸ All Control Panel Items ▸ User Accounts

Search Control Panel

Control Panel Home

Make changes to your user account

Manage your credentials

Manage your file encryption certificates

Configure advanced user profile properties

Change my environment variables

The presentation selects "Manage your file encryption certificates". The presentation only does this for the logon that created the encrypted files and folders.

Tim Preuss
tim_preuss@my.minnesota.edu
Password protected

See also

Family Safety

3:45 PM
2/28/2014

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Recycle Bin

Oracle VM VirtualBox

Recuva

Encrypting File System

Manage your file encryption certificates

To encrypt files for additional security, you must have an encryption certificate and its associated decryption key on your computer or on a smart card. You can't access your encrypted files without this certificate and key.

Use this wizard to:

- Select or create a file encryption certificate and key.

- Back up the certificate and key to avoid losing access to your encrypted files.

- Set Encrypting File System to use a smart card.

- Update previously encrypted files to use a different certificate and key.

Next

Cancel

Control

Manage

Manage certificat

Configu profile p

Change variables

innesota.edu

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The presentation reads the screen and selects the Next button.

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2/28/2014

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Encrypting File System

Select or create a file encryption certificate

Select an existing file encryption certificate or create a new one. If you have already encrypted files, you can update them to use this certificate.

(•) Use this certificate
If you are using a smart card, select the certificate on the smart card.

Certificate details:

Issued to: tim_p_000
Issued by: tim_p_000
Expires: 2/4/2114

View certificate

Select certificate

( ) Create a new certificate

d a certificate for file encryption?

Next

Cancel

Control

Manage

Manage certificat

Configu profile p

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d

The presentation reviews the Certificate details. It is important the certificate is issued to the logon that created the encryption is listed.

The presentation notes all is good. The presentation selects "Use this certificate". The presentation selects the Next button.

3:45 PM
2/28/2014

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Encrypting File System

Back up the certificate and key

This helps you avoid losing access to your encrypted files if the original certificate and key are lost or damaged.

Current certificate: Issued to: tim_p_000 View certificate

Back up the certificate and key now
You should back up the certificate and key to removable media.

Backup location: Browse...

Password:

Confirm password:

Back up the certificate and key later
Windows will remind you the next time you log on.

Why should I back up the certificate and key?

Next Cancel

The presetation selects the browse button. The presentation will select a location for the backup.

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2/28/2014

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Configu profile p

Change variables

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Family S

Save As

« Doc... ▸ Public Docum... ▸

Search Public Documents

Organize

New folder

Favorites

Desktop

Downloads

Recent places

Libraries

Documents

My Documents

Public Docume

Music

Pictures

Videos

Name	Date modified	Type
cptr2262_batch	1/28/2014 3:05 PM	File folder
csci1110-2	2/27/2014 12:45 PM	File folder
EFS_test	2/28/2014 3:44 PM	File folder
public_test	2/4/2014 2:24 PM	File folder

File name:

Save as type: Personal Information Exchange (*.pfx)

Hide Folders

Save

nesota.edu

The presentation selects the "Public Documents" folder for the backup.

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See also

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Save As

« Doc... ▸ Public Docum... ▸

Search Public Documents

Organize

New folder

Favorites

Desktop

Downloads

Recent places

Libraries

Documents

My Documents

Public Docume

Music

Pictures

Videos

Name	Date modified	Type
cptr2262_batch	1/28/2014 3:05 PM	File folder
csci1110-2	2/27/2014 12:45 PM	File folder
EFS_test	2/28/2014 3:44 PM	File folder
public_test	2/4/2014 2:24 PM	File folder

File name: preuss_cert01

Save as type: Personal Information Exchange (*.pfx)

Hide Folders

Save

Next

nesota.edu

The presentation gives the backup a name. Then the presentation selects the Save button.

3:46 PM
2/28/2014

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Encrypting File System

Back up the certificate and key

This helps you avoid losing access to your encrypted files if the original certificate and key are lost or damaged.

Current certificate: Issued to: tim_p_000 — View certificate

(•) Back up the certificate and key now
You should back up the certificate and key to removable media.

Backup location: C:\Users\Public\Documents\preuss_ — Browse...

Password: ••••••••••

Confirm password: ••••••••••

( ) Back up the certificate and key later
Windows will remind you the next time you log on.

Why should I back up the certificate and key?

Next Cancel

The presentation adds a password to the backup. Then, the presentation selects the Next button.

3:46 PM
2/28/2014

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Encrypting File System

Update your previously encrypted files

Select the folders containing encrypted files that you want to associate with the new certificate and key. Updating now helps you avoid losing access to your encrypted files if the previous certificate and key are lost.

Folders:

All Logical Drives

The presentation checks "All Logical Drives". The presentation selects the Next button.

I'll update my encrypted files later

Updating your files might take some time, depending on how many files you update. If you log off or remove your smart card during the process, your files will not be updated.

Next

Cancel

3:47 PM
2/28/2014

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Encrypting File System

Progress...

Updating your encrypted files...

The update takes a couple of minutes.

Cancel

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Encrypting File System

Some of your encrypted files were not updated

Certificate details:

Issued to: tim_p_000

Issued by: tim_p_000

Expires: 2/4/2114

Certificate and key backup location:

C:\Users\Public\Documents\preuss_cert01.pfx

View certificate

View log

Close

The update is complete. The presentation selects the Close button.

3:47 PM

2/28/2014

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Player

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Recycle Bin

Oracle VM VirtualBox

Recuva

C:\Users\Public\Documents

File Home Share View

Libraries ▸ Documents ▸ Public Documents ▸

Search Public Documents

Favorites
- Desktop
- Downloads
- Recent places

Libraries
- Documents
  - My Documents
  - Public Docume
    - cptr2262_bat
    - csci1110-2
    - EFS_test
    - public_test
- Music
- Pictures
- Videos

Computer
- Local Disk (C:)
- Simple01 (E:)
- Spanned01 (F:)
- Mirror01 (G:)

Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
csci1110-2	2/27/2014 12:45 PM	File folder	
EFS_test	2/28/2014 3:44 PM	File folder	
public_test	2/4/2014 2:24 PM	File folder	
preuss_cert01.pfx	2/28/2014 3:47 PM	Personal Informati...	3 KB

The "preuss_cert01.pfx" is the backup. It is necessary to keep this file secure.

This is the end of key backup.

5 items State: Shared

3:48 PM
2/28/2014

win8_x64_office2013 - VMware Player (Non-commercial use only)

Player

Start

Snuffy

The presentation is testing the encryption.

The presentation logs on to Windows 8.0 as an administrator.

Mail

Internet Explorer

Store 15

Bing

People

Photos

Maps

SkyDrive

Messaging

S&P 500 - 2:12 PM EST
1,853.78 ▲ +0.47%

Sports

Games

Desktop

Weather

Russia reportedly sheltering Ukraine's president

Music

win8_x64_office2013 - VMware Player (Non-commercial use only)

Player

Snuffy

Computer

Recycle Bin

Control Panel

Oracle VM VirtualBox

Recuva

Public Documents

File Home Share View

Libraries ▸ Documents ▸ Public Documents ▸

Search Public Documents

Favorites
- Desktop
- Downloads
- Recent places

Libraries
- Documents
  - My Documents
  - Public Documents
    - cptr2262_batch
    - csci1110-2
    - EFS_test
    - public_test
- Music
- Pictures
- Videos

Computer

Network

Name	Date modified	Type	Size
cptr2262_batch	1/28/2014 3:05 PM	File folder	
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EFS_test	2/28/2014 3:44 PM	File folder	
public_test	2/4/2014 2:24 PM	File folder	
preuss_cert01.pfx	2/28/2014 3:47 PM	Personal Informati...	3 KB

The presentation opens the folder containing the encrypted folders.

5 items State: Shared

ENG 3:49 PM 2/28/2014

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Player

Snuffy

Computer

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EFS_test

File Home Share View

Libraries ▸ Documents ▸ Public Documents ▸ EFS_test

Search EFS_test

Favorites
- Desktop
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- Recent places

Libraries
- Documents
  - My Documents
  - Public Documents
    - cptr2262_batch
    - csci1110-2
    - EFS_test
    - public_test
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Computer

Network

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1148I03.pdf	2/28/2014 3:44 PM	PDF File	30 KB
1148I04.pdf	2/28/2014 3:44 PM	PDF File	88 KB
1148I05.pdf	2/28/2014 3:44 PM	PDF File	30 KB
1148I06.pdf	2/28/2014 3:44 PM	PDF File	34 KB
1148I07.pdf	2/28/2014 3:44 PM	PDF File	28 KB
1148I08.pdf	2/28/2014 3:44 PM	PDF File	31 KB
1148I09.pdf	2/28/2014 3:44 PM	PDF File	29 KB
1148I10.pdf	2/28/2014 3:44 PM	PDF File	29 KB

10 items State: Shared

The presentation opens the encrypted folder. The presentation double clicks on a file to open.

ENG 3:49 PM 2/28/2014

win8_x64_office2013 - VMware Player (Non-commercial use only)

Player

Sorry, can't display this file

Try reopening 1148l01.pdf.

Close

The presentation finds the file is encrypted by another logon. This logon may not open the file.