

Palpatine investigation

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May 1, 2025

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Introduction

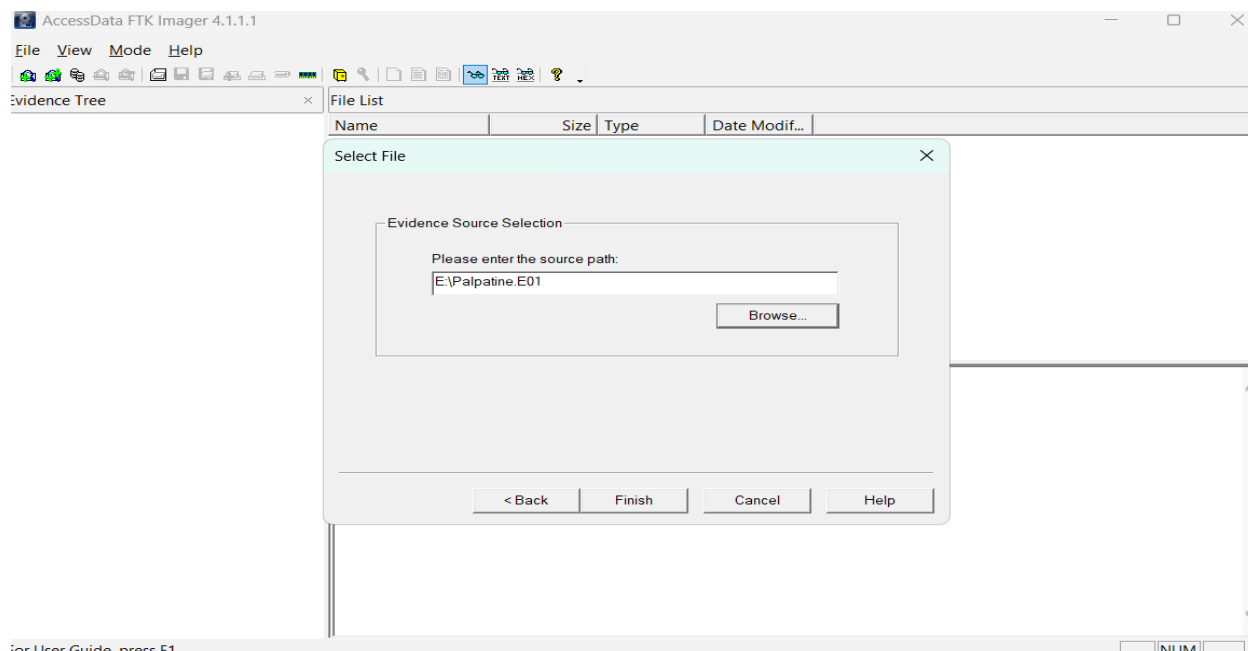
This case was about investigating the hard drive of a fictional suspect, Chancellor Palpatine. He is believed to be secretly working as a Sith Lord and planning dangerous operations like Order 66. My job was to examine his hard drive to look for any signs or proof of criminal activity.

I had permission by the Jedi High Council to perform the investigation. The image was provided for training purposes. I used forensic tools like FTK Imager and Forensic Explorer (FEX) to look through the drive. My goal was to find documents, emails, images, or anything that showed he was planning harm to the Jedi or involved in galactic conspiracies. This project helped me apply everything I've learned about proper forensic procedures, such as imaging, searching, carving, and reporting.

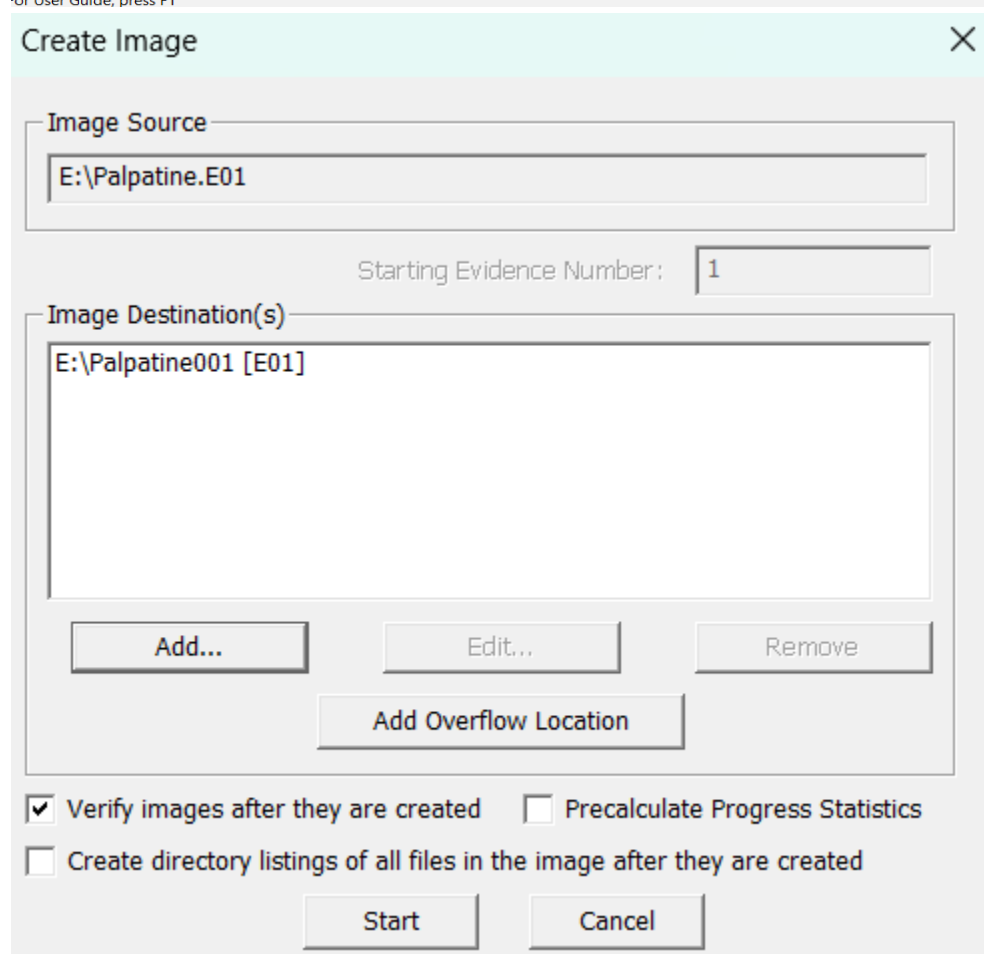
Imaging Information

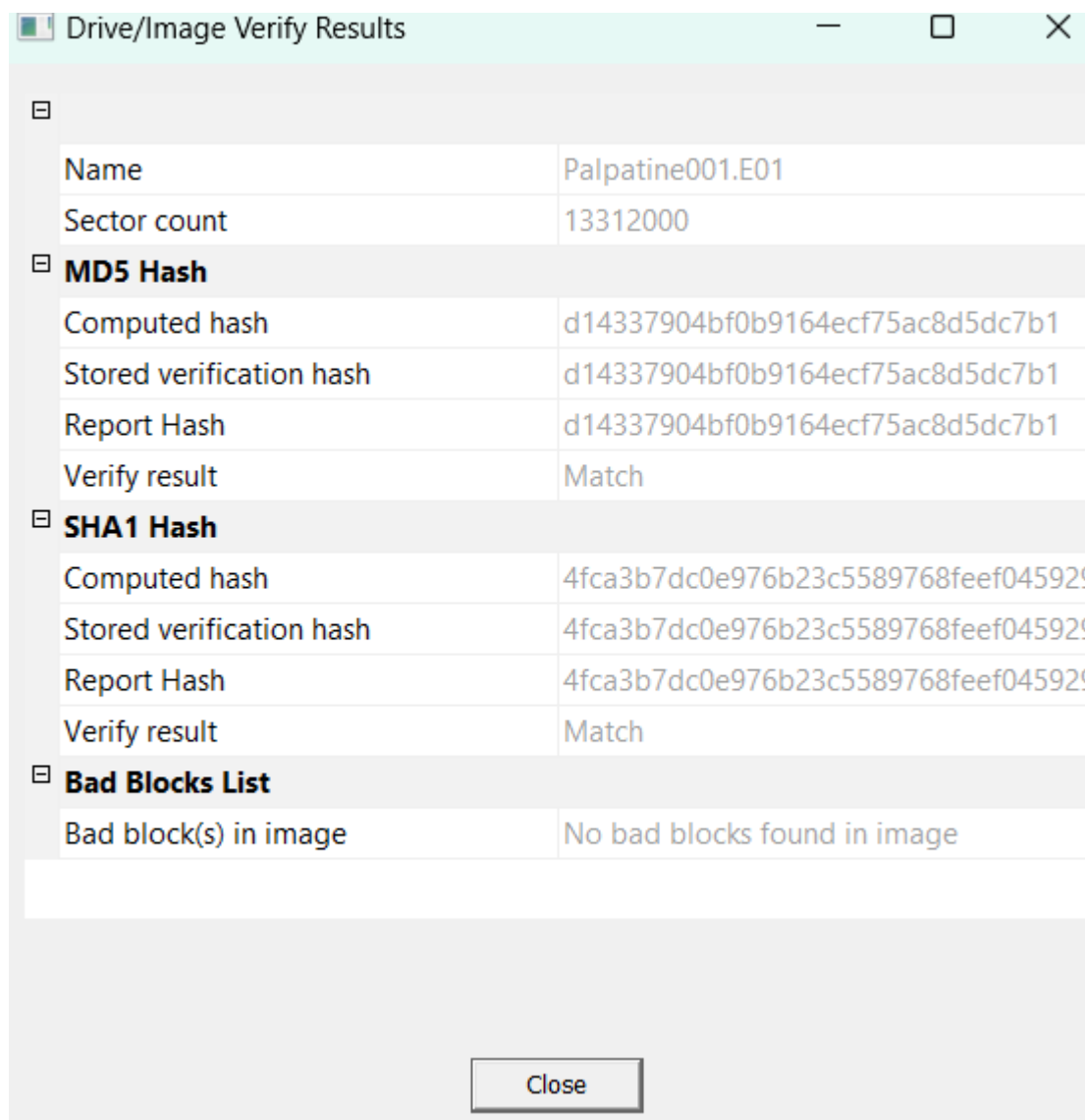
The first step of the investigation was to create a forensic image of the suspect's hard drive. I used FTK Imager version 4.1.1.1 to do this. The image type was logical, which means it copied files and folders that were visible to the operating system but may have missed hidden or deleted ones in unallocated space.

I filled in the case number, examiner name, and a short description of the case. The imaging was successful. I checked and verified the image using MD5 and SHA1 hash values to make sure the image had not been changed or damaged. Both hashes matched. The image was split into two segments and saved as Palpatine.E01 and Palpatine.E02. The total size was 6.5 GB. It took about 15 minutes to finish imaging and verifying. This created a safe copy that I could now analyze without changing the original evidence.



For User Guide, press F1





Created By AccessData® FTK® Imager 4.1.1.1

Case Information:

Acquired using: ADI4.1.1.1

Case Number: 001

Evidence Number: palpatine

Unique description: palpatine case

Examiner: Yasmin Hassen

Notes: Palpatine

Information for E:\Palpatine001:

Physical Evidentiary Item (Source) Information:

[Device Info]

Source Type: Logical

[Verification Hashes]

MD5 verification hash: d14337904bf0b9164ecf75ac8d5dc7b1

SHA1 verification hash: 4fca3b7dc0e976b23c5589768feef04592900129

[Drive Geometry]

Bytes per Sector: 512

Sector Count: 13,312,000

[Image]

Image Type: E01

Case number: Palpatine

Evidence number: 1

Examiner: Zach Rogers

Notes: Chancellor Palpatine is suspected of being a Sith Lord.

Acquired on OS: Win 201x

Acquired using: ADI4.7.1.2

Acquire date: 12/6/2024 10:28:15 PM

System date: 12/6/2024 10:28:15 PM

Unique description: Image of main drive.

Source data size: 6500 MB

Sector count: 13312000

[Computed Hashes]

MD5 checksum: d14337904bf0b9164ecf75ac8d5dc7b1

SHA1 checksum: 4fca3b7dc0e976b23c5589768feef04592900129

Image Information:

Acquisition started: Thu May 1 19:20:34 2025

Acquisition finished: Thu May 1 19:24:16 2025

Segment list:

E:\Palpatine001.E01

E:\Palpatine001.E02

Image Verification Results:

Verification started: Thu May 1 19:24:16 2025

Verification finished: Thu May 1 19:24:36 2025

MD5 checksum: d14337904bf0b9164ecf75ac8d5dc7b1 : verified

SHA1 checksum: 4fca3b7dc0e976b23c5589768feef04592900129 : verified

Forensic Explorer (FEX)

After I finished imaging the hard drive using FTK Imager, I used Forensic Explorer (FEX) to examine the evidence. FEX is a forensic tool that allows you to open and explore the image file without changing anything. It helped me search, sort, and view files inside the hard drive.

I started by creating a new case and adding the evidence image Palpatine001.E01. Once it was loaded, I let the software process and index the data. Then I explored different folders on the drive. I looked through places like Users, Documents, Downloads, and AppData, but most of the personal folders were empty or only had basic Windows files like sample music or pictures.

FEX also helped me do keyword searches. I searched for terms like Jedi, and Death Star. The search found some hits, but none of them were personal documents. Most were just part of system files or random file names.

One of the most helpful parts of FEX was the File Carving feature. I used it to try to recover deleted or hidden files. FEX found over 40,000 carved items, which looked promising. But after checking through different types of files, I realized that most of them were either empty, corrupted, or just random Windows files. I was not able to find anything specific that showed Chancellor Palpatine was doing something illegal.

Even though it was frustrating not finding strong evidence, using FEX helped me understand how to do a full investigation. I learned how to load and examine an image, search for keywords, check the file structure, carve deleted files, and organize results.

Forensic Explorer v5.6.8[5908] (64bit) Case: Palpatine

Evidence File System Artifacts Keyword Search... Index Search... Email Registry Bookmarks Reports Scripts

Recover Folders File Name Search File Carve Shadow Copy Signature Analysis Expand Files Expand Video Extract Metadata Analysis Programs Triage Quick Registry File Info Hash Files Hash Match Hash Set Create

File List Gallery View Video View Disk View Category Graph

Filter: No Filter

Filename Palpatine (1) Palpatine001.E01 (10) [UTC (+00:00)] Orphaned (8) Root (53)

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File
0 of 0 Visible [LS 0 bytes PS 0 bytes] 0 Highlighted [LS 0 bytes PS 0 bytes] 0 Checked [LS 0 bytes PS 0 bytes]					

No Data

0 of 20957 Checked [LS 0 bytes PS 0 bytes]

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File C
1 Chancellor's Agenda.pdf	pdf		PDF	No	Doc
2 Chancellor's Agenda.pdf~Zone			Text		Tex
3 Contingency Plan.txt	txt		Text		Tex
4 Jedi Order.txt	txt		Text		Tex
5 New Apprentice.txt	txt		Text		Tex
6 Senate Meeting.txt	txt		Text		Tex

Palpatine001.E01\Root\Users\Palpatine\Documents\Chancellor's Agenda.pdf

6 of 6 Visible [LS 47 KB PS 53 KB] 1 Highlighted [LS 45 KB PS 48 KB] 0 Checked [LS 0 bytes PS 0 bytes]

Chancellor's Agenda:

9:00 AM - Begin the day with a visit to the Coruscant Botanical Gardens

11:00 AM - Meeting with Merchant Guilds about new trade agreements

12:30 PM - Meeting with the ambassador of Alderaan

2:00 PM - Lunch outing with Senator Amidala

3:00 PM to 6:00 PM - Senate debate

8:00 PM - Discussion with Jedi Council about the progress of the Clone Wars

Palpatine001.E01\Root\Users\Palpatine\Documents\Chancellor's Agenda.pdf

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File ListGallery ViewVideo ViewDisk ViewCategory Graph

FilenameExtFolder and File Name SearchFile SignatureExtension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File C
<input type="checkbox"/> 1	Chancellor's Agenda.pdf	pdf		PDF	No	Doc
<input type="checkbox"/> 2	Chancellor's Agenda.pdf~Zone			Text		Text
<input type="checkbox"/> 3	Contingency Plan.txt	txt		Text		Text
<input type="checkbox"/> 4	Jedi Order.txt	txt		Text		Text
<input type="checkbox"/> 5	New Apprentice.txt	txt		Text		Text
<input type="checkbox"/> 6	Senate Meeting.txt	txt		Text		Text

Palpatine001.E01\Root\Users\Palpatine\Documents\Contingency Plan.txt

6 of 6 Visible [LS 47 KB PS 53 KB]1 Highlighted [LS 142 bytes PS 142 bytes]0 Checked [LS 0 bytes PS 0 bytes]

Once every piece has been put into place, Order 66 can be executed to turn the Grand Army of the Galactic Republic

File ListGallery ViewVideo ViewDisk ViewCategory Graph

FilenameExtFolder and File Name SearchFile SignatureExtension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File
<input type="checkbox"/> 1	Chancellor's Agenda.pdf	pdf		PDF	No	Do
<input type="checkbox"/> 2	Chancellor's Agenda.pdf~Zone			Text		Te
<input type="checkbox"/> 3	Contingency Plan.txt	txt		Text		Te
<input checked="" type="checkbox"/> 4	Jedi Order.txt	txt		Text		Te
<input type="checkbox"/> 5	New Apprentice.txt	txt		Text		Te
<input type="checkbox"/> 6	Senate Meeting.txt	txt		Text		Te

Palpatine001.E01\Root\Users\Palpatine\Documents\Jedi Order.txt

6 of 6 Visible [LS 47 KB PS 53 KB]1 Highlighted [LS 212 bytes PS 212 bytes]0 Checked [LS 0 bytes PS 0 bytes]

There are many enemies I have but none are as revolting as the Jedi.

I hate them all but a few I will make sure to get rid of are:

-Grand Master Yoda
-Mace Windu
-Obi-Wan Kenobi
-Qui-Gon Jin (eliminated)

Palpatine001.E01\Root\Users\Palpatine\Documents\Jedi Order.txt

HexTextInfoBookmarkRoute PlotFile Custom RecordFile MetadataFile ExtentPermissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File
<input type="checkbox"/> 1	Chancellor's Agenda.pdf	pdf		PDF	No	Doc
<input type="checkbox"/> 2	Chancellor's Agenda.pdf~Zone			Text		Tex
<input type="checkbox"/> 3	Contingency Plan.txt	txt		Text		Tex
<input type="checkbox"/> 4	Jedi Order.txt	txt		Text		Tex
<input checked="" type="checkbox"/> 5	New Apprentice.txt	txt		Text		Tex
<input type="checkbox"/> 6	Senate Meeting.txt	txt		Text		Tex

Palpatine001.E01\Root\Users\Palpatine\Documents\New Apprentice.txt

6 of 6 Visible [LS 47 KB PS 53 KB] 1 Highlighted [LS 354 bytes PS 354 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

I am in need of a new apprentice, Maul completed his task but was too weak to see the whole picture.

I have found great promise in the former Jedi; Count Dooku. He has the ability to serve my needs.

I will have him raise an alliance of Separatists against the Republic and have him create a secret droid army to :

Palpatine001.E01\Root\Users\Palpatine\Documents\New Apprentice.txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File
<input type="checkbox"/> 1	Chancellor's Agenda.pdf	pdf		PDF	No	Do
<input type="checkbox"/> 2	Chancellor's Agenda.pdf~Zone			Text		Te
<input type="checkbox"/> 3	Contingency Plan.txt	txt		Text		Te
<input type="checkbox"/> 4	Jedi Order.txt	txt		Text		Te
<input type="checkbox"/> 5	New Apprentice.txt	txt		Text		Te
<input checked="" type="checkbox"/> 6	Senate Meeting.txt	txt		Text		Te

Palpatine001.E01\Root\Users\Palpatine\Documents\Senate Meeting.txt

6 of 6 Visible [LS 47 KB PS 53 KB] 1 Highlighted [LS 148 bytes PS 148 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

Notes for next Senate debate:

-Reach out to Senator Breemu about new mining laws.

-Talk about new Separatist threat.

-Settle trade dispute.

Palpatine001.E01\Root\Users\Palpatine\Documents\Senate Meeting.txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism... File C

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File C
<input type="checkbox"/> 1	brightfuture.txt	txt		Text		Text
<input type="checkbox"/> 2	Chosen One.txt	txt		Text		Text
<input type="checkbox"/> 3	HoloNet Log.txt	txt		Text		Text
<input type="checkbox"/> 4	Jedi chat log.txt	txt		Text		Text

Palpatine001.E01\Root\Users\Palpatine\Desktop\brightfuture.txt

4 of 4 Visible [LS 2 KB PS 5 KB] 1 Highlighted [LS 107 bytes PS 107 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

Becoming Supreme Chancellor of the Galactic Republic was only the beginning.....so much power.....

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism... File C

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File C
<input type="checkbox"/> 1	brightfuture.txt	txt		Text		Text
<input checked="" type="checkbox"/> 2	Chosen One.txt	txt		Text		Text
<input type="checkbox"/> 3	HoloNet Log.txt	txt		Text		Text
<input type="checkbox"/> 4	Jedi chat log.txt	txt		Text		Text

Palpatine001.E01\Root\Users\Palpatine\Desktop\Chosen One.txt

4 of 4 Visible [LS 2 KB PS 5 KB] 1 Highlighted [LS 353 bytes PS 353 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

[Darth Sidious] - My apprentice, I have discovered a possible threat to my plans. The Jedi have discovered a 'Chos

[Darth Maul] - Master, what would you have me do?

[Darth Sidious] - Go to Naboo, Jedi Master Qui-Gon Jin is set to train the boy in the ways of the Jedi, kill him.

Palpatine001.E01\Root\Users\Palpatine\Desktop\Chosen One.txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File C
<input type="checkbox"/> 1	brightfuture.txt	txt		Text		Text
<input type="checkbox"/> 2	Chosen One.txt	txt		Text		Text
<input type="checkbox"/> 3	HoloNet Log.txt	txt		Text		Text
<input type="checkbox"/> 4	Jedi chat log.txt	txt		Text		Text

Palpatine001.E01\Root\Users\Palpatine\Desktop\HoloNet Log.txt

4 of 4 Visible [LS 2 KB PS 5 KB] 1 Highlighted [LS 600 bytes PS 4 KB] 0 Checked [LS 0 bytes PS 0 bytes]

[Darth Tyranus] - Master, I have heard news from Kamino that Jango Fett agreed to the deal and the production of a

[Darth Sidious] - Have the 'modifications' been made?

[Darth Tyranus] - Yes my lord, a biochip will be implanted into each clone to force them to follow any order.

[Darth Sidious] - Splendid!

[Darth Tyranus] - Is there anything further you require of me, master?

[Darth Sidious] - Yes! You will eliminate Jedi Master Sifo-Dyas, he is the only Jedi aware of this army and the or

Palpatine001.E01\Root\Users\Palpatine\Desktop\HoloNet Log.txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...	File
<input type="checkbox"/> 1	brightfuture.txt	txt		Text		Te
<input type="checkbox"/> 2	Chosen One.txt	txt		Text		Te
<input type="checkbox"/> 3	HoloNet Log.txt	txt		Text		Te
<input type="checkbox"/> 4	Jedi chat log.txt	txt		Text		Te

Palpatine001.E01\Root\Users\Palpatine\Desktop\Jedi chat log.txt

4 of 4 Visible [LS 2 KB PS 5 KB] 1 Highlighted [LS 532 bytes PS 532 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

[Chancellor Palpatine] - Greetings Anakin, I wanted to express my condolences for the death of your mother.

[Anakin Skywalker] - Hello Chancellor, I appreciate your concern for my wellbeing, it has been difficult.

[Chancellor Palpatine] - It is gravely unfortunate that tragedies such as these are not preventable. Protecting o

[Anakin Skywalker] - Does such a power exist?

[Chancellor Palpatine] - Come to my office later, I have something to tell you.

Palpatine001.E01\Root\Users\Palpatine\Desktop\Jedi chat log.txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
<input type="checkbox"/> 10	Carved_EXE/DLL_56288.exe	exe		EXE/DLL	No
<input type="checkbox"/> 11	Carved_Gif_269920.gif	gif		Gif	No
<input type="checkbox"/> 12	Carved_PDF_52768.pdf	pdf		PDF	No
<input checked="" type="checkbox"/> 13	Carved_PNG_206448.png	png		PNG	No
<input type="checkbox"/> 14	Carved_PNG_58504.png	png		PNG	No
<input type="checkbox"/> 15	Carved_Text_Split_102600.tif	tif		Text Split	No

Palpatine.E01\File Carve\Carved_PNG_206448.png

125 of 125 Visible [LS 6.35 GB PS 6.35 GB] 1 Highlighted [LS 8 KB PS 9 KB] 0 Checked [LS 0 bytes PS 0 bytes]



295%

Palpatine.E01\File Carve\Carved_PNG_206448.png

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

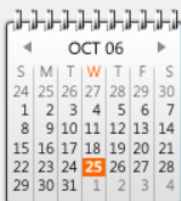
File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
<input type="checkbox"/> 201	Carved_PNG_478536.png	png		PNG	No
<input checked="" type="checkbox"/> 202	Carved_PNG_482128.png	png		PNG	No
<input type="checkbox"/> 203	Carved_PNG_482256.png	png		PNG	No
<input type="checkbox"/> 204	Carved_PNG_482384.png	png		PNG	No
<input type="checkbox"/> 205	Carved_PNG_482512.png	png		PNG	No

Palpatine.E01\File Carve\Carved_PNG_482128.png

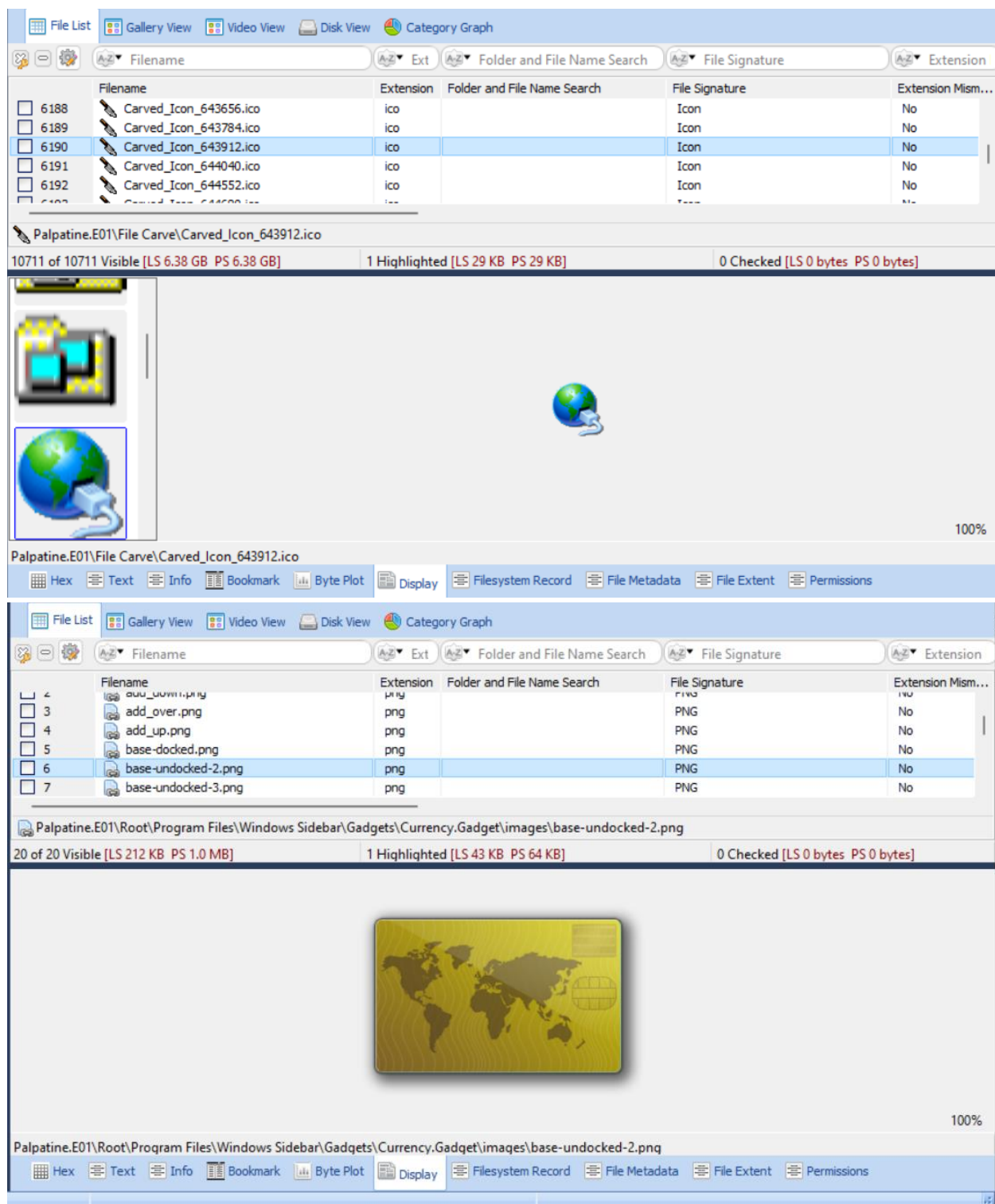
10711 of 10711 Visible [LS 6.38 GB PS 6.38 GB] 1 Highlighted [LS 7 KB PS 7 KB] 0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\File Carve\Carved_PNG_482128.png

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions



File List | Gallery View | Video View | Disk View | Category Graph

Filename | Ext | Folder and File Name Search | File Signature | Extension Mism...

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
<input type="checkbox"/> 1	brightfuture.txt	txt		Text	
<input type="checkbox"/> 2	Chosen One.txt	txt		Text	
<input type="checkbox"/> 3	HoloNet Log.txt	txt		Text	
<input type="checkbox"/> 4	Jedi chat log.txt	txt		Text	

Palpatine.E01\Root\Users\Palpatine\Desktop\brightfuture.txt

4 of 4 Visible [LS 2 KB PS 5 KB] | 1 Highlighted [LS 107 bytes PS 107 bytes] | 0 Checked [LS 0 bytes PS 0 bytes]

Becoming Supreme Chancellor of the Galactic Republic was only the beginning.....so much power.....

Palpatine.E01\Root\Users\Palpatine\Desktop\brightfuture.txt

Hex | Text | Info | Bookmark | Byte Plot | Download | Filesystem Record | File Metadata | File Extent | Permissions

File List | Gallery View | Video View | Disk View | Category Graph

Filename | Ext | Folder and File Name Search | File Signature | Extension Mism...

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
<input type="checkbox"/> 1	brightfuture.txt	txt		Text	
<input checked="" type="checkbox"/> 2	Chosen One.txt	txt		Text	
<input type="checkbox"/> 3	HoloNet Log.txt	txt		Text	
<input type="checkbox"/> 4	Jedi chat log.txt	txt		Text	

Palpatine.E01\Root\Users\Palpatine\Desktop\Chosen One.txt

4 of 4 Visible [LS 2 KB PS 5 KB] | 1 Highlighted [LS 353 bytes PS 353 bytes] | 0 Checked [LS 0 bytes PS 0 bytes]

[Darth Sidious] - My apprentice, I have discovered a possible threat to my plans. The Jedi have discovered a

[Darth Maul] - Master, what would you have me do?

[Darth Sidious] - Go to Naboo, Jedi Master Qui-Gon Jin is set to train the boy in the ways of the Jedi, kill

Palpatine.E01\Root\Users\Palpatine\Desktop\Chosen One.txt

Hex | Text | Info | Bookmark | Byte Plot | Download | Filesystem Record | File Metadata | File Extent | Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism
1 brightfuture.txt	txt		Text	
2 Chosen One.txt	txt		Text	
3 HoloNet Log.txt	txt		Text	
4 Jedi chat log.txt	txt		Text	

Palpatine.E01\Root\Users\Palpatine\Desktop\HoloNet Log.txt

4 of 4 Visible [LS 2 KB PS 5 KB] 1 Highlighted [LS 600 bytes PS 4 KB] 0 Checked [LS 0 bytes PS 0 bytes]

[Darth Tyranus] - Master, I have heard news from Kamino that Jango Fett agreed to the deal and the producti

[Darth Sidious] - Have the 'modifications' been made?

[Darth Tyranus] - Yes my lord, a biochip will be implanted into each clone to force them to follow any orde

[Darth Sidious] - Splendid!

[Darth Tyranus] - Is there anything further you require of me, master?

Palpatine.E01\Root\Users\Palpatine\Desktop\HoloNet Log.txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism...

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
1 brightfuture.txt	txt		Text	
2 Chosen One.txt	txt		Text	
3 HoloNet Log.txt	txt		Text	
4 Jedi chat log.txt	txt		Text	

Palpatine.E01\Root\Users\Palpatine\Desktop\Jedi chat log.txt

4 of 4 Visible [LS 2 KB PS 5 KB] 1 Highlighted [LS 532 bytes PS 532 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

[Chancellor Palpatine] - Greetings Anakin, I wanted to express my condolences for the death of your mother.

[Anakin Skywalker] - Hello Chancellor, I appreciate your concern for my wellbeing, it has been difficult.

[Chancellor Palpatine] - It is gravely unfortunate that tragedies such as these are not preventable. Protecti

[Anakin Skywalker] - Does such a power exist?

[Chancellor Palpatine] - Come to my office later, I have something to tell you.

Palpatine.E01\Root\Users\Palpatine\Desktop\Jedi chat log.txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
<input type="checkbox"/> 1	airspeeder.jfif	jfif		JPG	Yes
<input type="checkbox"/> 2	airspeeder.jfif~Zone			Text	
<input type="checkbox"/> 3	Blueprints.webp	webp		WebP	No
<input type="checkbox"/> 4	Blueprints.webp~Zone			Text	
<input type="checkbox"/> 5	chosen one.jfif	jfif		JPG	Yes
<input type="checkbox"/> 6	chosen one.jfif~Zone			Text	
<input type="checkbox"/> 7	city.jfif	jfif		JPG	Yes

Palpatine.E01\Root\Users\Palpatine\Pictures\airspeeder.jfif

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 7 KB PS 8 KB] 0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\airspeeder.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
<input type="checkbox"/> 1	airspeeder.jfif	jfif		JPG	Yes
<input type="checkbox"/> 2	airspeeder.jfif~Zone			Text	
<input type="checkbox"/> 3	Blueprints.webp	webp		WebP	No
<input type="checkbox"/> 4	Blueprints.webp~Zone			Text	
<input checked="" type="checkbox"/> 5	chosen one.jfif	jfif		JPG	Yes
<input type="checkbox"/> 6	chosen one.jfif~Zone			Text	
<input type="checkbox"/> 7	city.jfif	jfif		JPG	Yes

Palpatine.E01\Root\Users\Palpatine\Pictures\chosen one.jfif

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 7 KB PS 8 KB] 0 Checked [LS 0 bytes PS 0 bytes]



80%

Palpatine.E01\Root\Users\Palpatine\Pictures\chosen one.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File ListGallery ViewVideo ViewDisk ViewCategory Graph

FilenameExtFolder and File Name SearchFile SignatureExtension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mis
<input type="checkbox"/> 4	Blueprints.webp~Zone			Text	
<input type="checkbox"/> 5	chosen one.jfif	jfif		JPG	Yes
<input type="checkbox"/> 6	chosen one.jfif~Zone			Text	
<input type="checkbox"/> 7	city.jfif	jfif		JPG	Yes
<input type="checkbox"/> 8	city.jfif~Zone			Text	
<input type="checkbox"/> 9	clone war.jfif	jfif		JPG	Yes
<input type="checkbox"/> 10	clone war.jfif~Zone			Text	

Palpatine.E01\Root\Users\Palpatine\Pictures\city.jfif

46 of 46 Visible [LS 378 KB PS 430 KB]1 Highlighted [LS 12 KB PS 16 KB]0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\city.jfif

HexTextInfoBookmarkByte PlotDisplayFilesystem RecordFile MetadataFile ExtentPermissions


File ListGallery ViewVideo ViewDisk ViewCategory Graph

FilenameExtFolder and File Name SearchFile SignatureExtension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
<input type="checkbox"/> 4	Blueprints.webp~Zone			Text	
<input type="checkbox"/> 5	chosen one.jfif	jfif		JPG	Yes
<input type="checkbox"/> 6	chosen one.jfif~Zone			Text	
<input type="checkbox"/> 7	city.jfif	jfif		JPG	Yes
<input type="checkbox"/> 8	city.jfif~Zone			Text	
<input type="checkbox"/> 9	clone war.jfif	jfif		JPG	Yes
<input type="checkbox"/> 10	clone war.jfif~Zone			Text	

Palpatine.E01\Root\Users\Palpatine\Pictures\clone war.jfif

46 of 46 Visible [LS 378 KB PS 430 KB]1 Highlighted [LS 6 KB PS 8 KB]0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\clone war.jfif

HexTextInfoBookmarkByte PlotDisplayFilesystem RecordFile MetadataFile ExtentPermissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism..

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism..
city.jfif	jfif		JPG	Yes
city.jfif~Zone			Text	
done war.jfif	jfif		JPG	Yes
done war.jfif~Zone			Text	
holocron.jfif	jfif		JPG	Yes
holocron.jfif~Zone			Text	
jedi chamber.jfif	jfif		JPG	Yes
jedi chamber.jfif~Zone			Text	

Palpatine.E01\Root\Users\Palpatine\Pictures\jedi chamber.jfif

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 8 KB PS 12 KB] 0 Checked [LS 0 bytes PS 0 bytes]



89%

Palpatine.E01\Root\Users\Palpatine\Pictures\jedi chamber.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism..

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism..
holocron.jfif	jfif		JPG	Yes
holocron.jfif~Zone			Text	
jedi chamber.jfif	jfif		JPG	Yes
jedi chamber.jfif~Zone			Unknown	
me.jfif	jfif		JPG	Yes
me.jfif~Zone			Unknown	
meeting.jfif	jfif		JPG	Yes

Palpatine.E01\Root\Users\Palpatine\Pictures\me.jfif

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 5 KB PS 8 KB] 0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\me.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism...

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
holocron.jfif	jfif		JPG	Yes
holocron.jfif~Zone			Text	
jedi chamber.jfif	jfif		JPG	Yes
jedi chamber.jfif~Zone			Unknown	
me.jfif	jfif		JPG	Yes
me.jfif~Zone			Unknown	
meeting.jfif	jfif		JPG	Yes

Palpatine.E01\Root\Users\Palpatine\Pictures\meeting.jfif

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 7 KB PS 8 KB] 0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\meeting.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

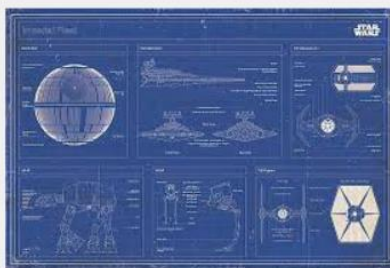
File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism...

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
me.jfif	jfif		JPG	Yes
me.jfif~Zone			Unknown	
meeting.jfif	jfif		JPG	Yes
meeting.jfif~Zone			Text	
moon station.jfif	jfif		JPG	Yes
moon station.jfif~Zone			Text	
Mustafar.jpg	jpg		JPG	No

Palpatine.E01\Root\Users\Palpatine\Pictures\moon station.jfif

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 10 KB PS 12 KB] 0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\moon station.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism...

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
me.jfif	jfif		JPG	Yes
me.jfif~Zone			Unknown	
meeting.jfif	jfif		JPG	Yes
meeting.jfif~Zone			Text	
moon station.jfif	jfif		JPG	Yes
moon station.jfif~Zone			Text	
Mustafar.jpg	jpg		JPG	No

Palpatine.E01\Root\Users\Palpatine\Pictures\Mustafar.jpg

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 70 KB PS 72 KB] 0 Checked [LS 0 bytes PS 0 bytes]



22%

Palpatine.E01\Root\Users\Palpatine\Pictures\Mustafar.jpg

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension Mism...

Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
meeting.jfif~Zone			Text	
moon station.jfif	jfif		JPG	Yes
moon station.jfif~Zone			Text	
Mustafar.jpg	jpg		JPG	No
Mustafar.jpg~Zone			Text	
my toy.jfif	jfif		JPG	Yes
my toy.jfif~Zone			Unknown	

Palpatine.E01\Root\Users\Palpatine\Pictures\my toy.jfif

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 5 KB PS 8 KB] 0 Checked [LS 0 bytes PS 0 bytes]



90%

Palpatine.E01\Root\Users\Palpatine\Pictures\my toy.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
20	moon station.jif~Zone			Text	
21	Mustafar.jpg	jpg		JPG	No
22	Mustafar.jpg~Zone			Text	
23	my toy.jfif	jfif		JPG	Yes
24	my toy.jfif~Zone			Unknown	
25	naboo.jfif	jfif		JPG	Yes
26	naboo.jfif~Zone			Unknown	
27	obi-wan.jfif	jfif		JPG	Yes

Palpatine.E01\Root\Users\Palpatine\Pictures\naboo.jfif

46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 12 KB PS 16 KB] 0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\naboo.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions


File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature Extension

	Filename	Extension	Folder and File Name Search	File Signature	Extension Mism...
22	Mustafar.jpg~Zone			Text	
23	my toy.jfif	jfif		JPG	Yes
24	my toy.jfif~Zone			Unknown	
25	naboo.jfif	jfif		JPG	Yes
26	naboo.jfif~Zone			Unknown	
27	obi-wan.jfif	jfif		JPG	Yes
28	obi-wan.jfif~Zone			Unknown	
29	renuhlic.nnn	nnn		PNG	No

Palpatine.E01\Root\Users\Palpatine\Pictures\obi-wan.jfif

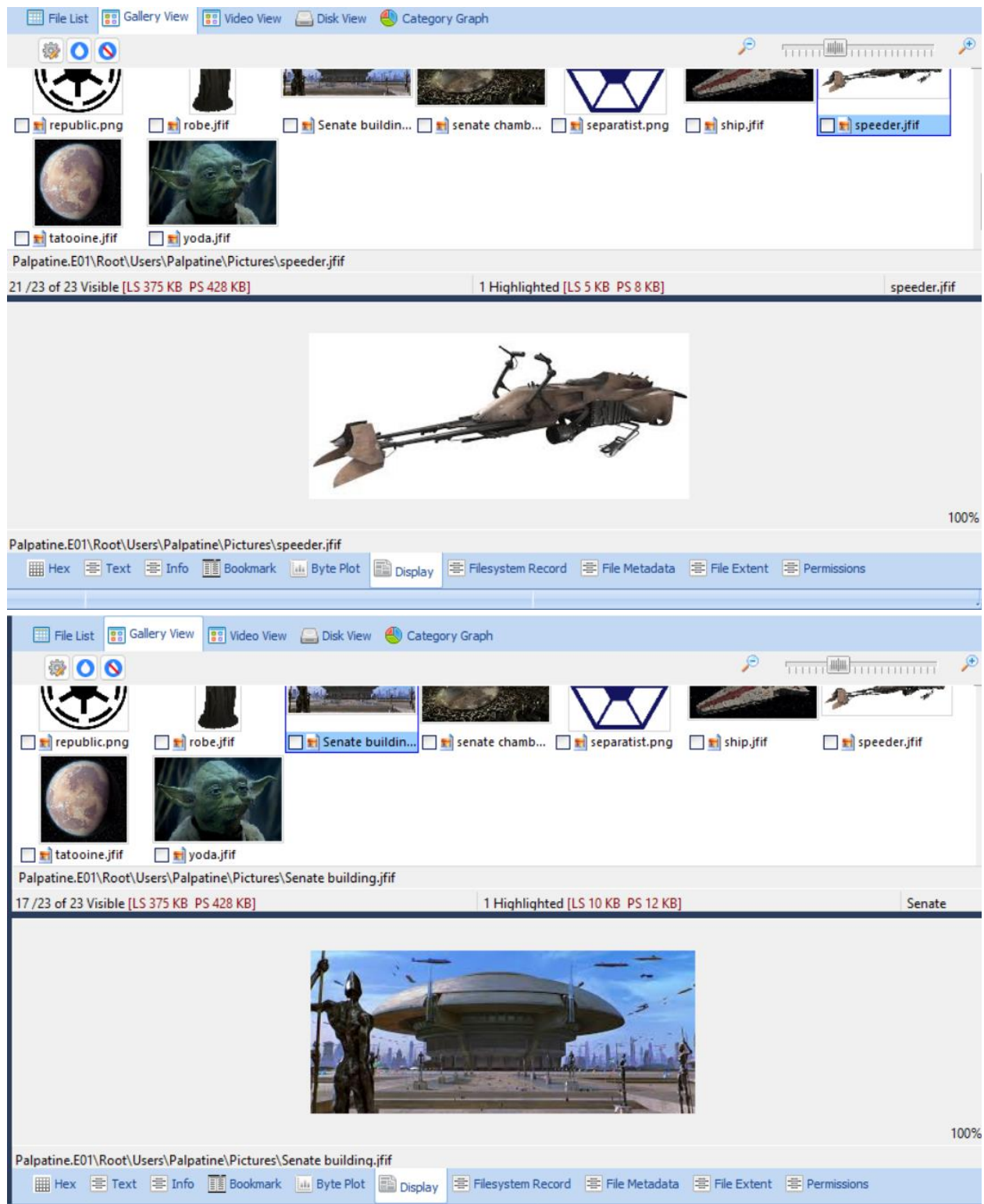
46 of 46 Visible [LS 378 KB PS 430 KB] 1 Highlighted [LS 5 KB PS 8 KB] 0 Checked [LS 0 bytes PS 0 bytes]



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\obi-wan.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions




File List Gallery View Video View Disk View Category Graph

republic.png robe.jfif Senate buildin... senate chamb... separatist.png ship.jfif speeder.jfif

tatooine.jfif yoda.jfif

Palpatine.E01\Root\Users\Palpatine\Pictures\senate chamber.jfif

18 / 23 of 23 Visible [LS 375 KB PS 428 KB] 1 Highlighted [LS 11 KB PS 12 KB] senate chan



100%

Palpatine.E01\Root\Users\Palpatine\Pictures\senate chamber.jfif

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature

	Filename	Extension	Folder and File Name Search	File Signature	Extensi
1	x86_microsoft-windows-ntvdm-system32_...	bat_6...		Text	
2	x86_microsoft-windows-ntvdm-system32_...	sys_6...		Text	
3	x86_microsoft-windows-sqmapl_31bf3856...	dll_37...		EXE/DLL	Ye:
4	x86_microsoft-windows-tabletpc-softkeyb...	xml_2...		XML	Ye:
5	x86_microsoft-windows-tabletpc-softkeyb...	xml_3...		XML	Ye:
6	x86_microsoft-windows-tabletpc-softkeyb...	xml_0...		XML	Ye:
7	x86_microsoft-windows-tabletpc-softkeyb...	xml_3...		XML	Ye:

Palpatine.E01\Root\Win...\x86_microsoft-windows-ntvdm-system32_31bf3856ad364e35_6.1.7601.17514_none_0014e305d0cff0a7_autoexec.bat_6d6f4bc5

38 of 38 Visible [LS 701 KB PS 2.3 MB] 1 Highlighted [LS 24 bytes PS 24 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

REM Dummy file for NTVDM

Palpatine.E01\Root\Windows\winsxs\Backup\x86_microsoft-windows-ntvdm-system32_31bf3856ad364e35_6.1.7601.17514_none_0014e305d0cff0a7_autoe

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature

	Filename	Extension	Folder and File Name Search	File Signature	Extensi
4	\$IM7Q4SL.txt	txt		Windows Recycle Bin	Yes
5	\$IWKSP66			Windows Recycle Bin	
6	\$R015Q24 (Chosen One).txt	txt		Text	
7	\$R2SVVNE (New Apprentice).txt	txt		Text	
8	\$RM7Q4SL (New Text Document).txt	txt		No size	
9	\$RWKSP66 (New folder)~\$130(\$90)			Unknown	
10	desktop.ini	ini		Text	

Palpatine.E01\Root\Recycle.Bin\S-1-5-21-346071495-2028852961-265169757-1001\SR2SVVNE (New Apprentice).txt

10 of 10 Visible [LS 1 KB PS 1 KB] 1 Highlighted [LS 286 bytes PS 286 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

I am in need of a new apprentice, Maul completed his task but was too weak to see the whole picture.

I have found great promise in the former Jedi; Count Dooku. He has the ability to serve my needs.

I will have him raise a secret droid army to incite civil war across the galaxy!!

Palpatine.E01\Root\Recycle.Bin\S-1-5-21-346071495-2028852961-265169757-1001\SR2SVVNE (New Apprentice).txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions

File List Gallery View Video View Disk View Category Graph

Filename Ext Folder and File Name Search File Signature

	Filename	Extension	Folder and File Name Search	File Signature	Extensi
4	\$IM7Q4SL.txt	txt		Windows Recycle Bin	Yes
5	\$IWKSP66			Windows Recycle Bin	
6	\$R015Q24 (Chosen One).txt	txt		Text	
7	\$R2SVVNE (New Apprentice).txt	txt		Text	
8	\$RM7Q4SL (New Text Document).txt	txt		No size	
9	\$RWKSP66 (New folder)~\$130(\$90)			Unknown	
10	desktop.ini	ini		Text	

Palpatine.E01\Root\Recycle.Bin\S-1-5-21-346071495-2028852961-265169757-1001\SR015Q24 (Chosen One).txt

10 of 10 Visible [LS 1 KB PS 1 KB] 1 Highlighted [LS 532 bytes PS 532 bytes] 0 Checked [LS 0 bytes PS 0 bytes]

[Chancellor Palpatine] - Greetings Anakin, I wanted to express my condolences for the death of your mother.

[Anakin Skywalker] - Hello Chancellor, I appreciate your concern for my wellbeing, it has been difficult.

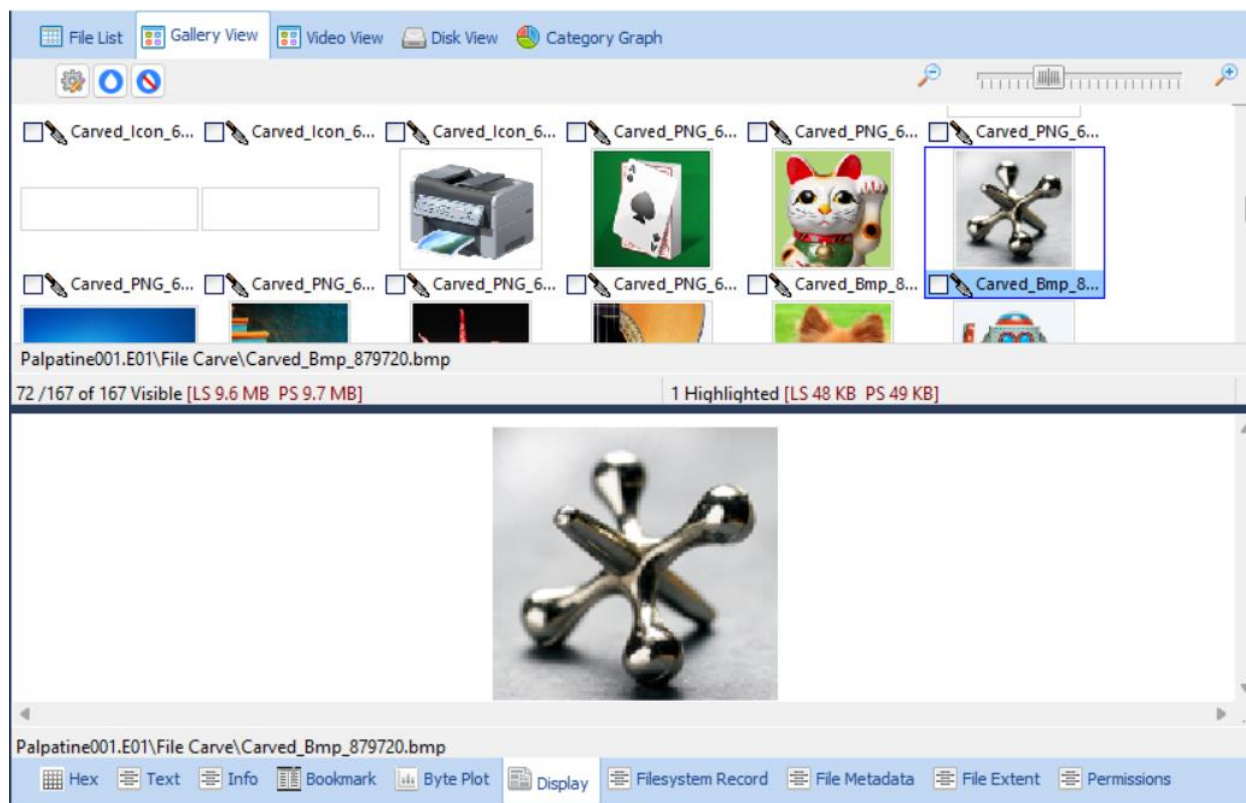
[Chancellor Palpatine] - It is gravely unfortunate that tragedies such as these are not preventable. I am sorry.

[Anakin Skywalker] - Does such a power exist?

[Chancellor Palpatine] - Come to my office later, I have something to tell you.

Palpatine.E01\Root\Recycle.Bin\S-1-5-21-346071495-2028852961-265169757-1001\SR015Q24 (Chosen One).txt

Hex Text Info Bookmark Byte Plot Display Filesystem Record File Metadata File Extent Permissions



Registry Information

After the file analysis, I checked the Windows registry for more information. Normally, the registry contains data about users, software, computer name, and system activity. These files are usually stored in `Windows\System32\config`.

Unfortunately, in this case, the registry files like SAM, SYSTEM, and SOFTWARE were not found. I searched manually and also used the keyword search tool, but I couldn't locate the full registry hives. There were a few files that mentioned "SAM," but they were from other system folders and didn't give any useful information.

The reason I couldn't access the registry is most likely because the image was a logical image. Logical images don't always include protected system files, especially the ones needed for registry analysis. Because of that, I couldn't find any usernames, computer names, or system activity logs from the registry.

Conclusion

Doing this forensic project was not easy, but it was a big learning experience for me. I worked hard to follow all the right steps creating the image, verifying the hash values, opening the image in Forensic Explorer, doing keyword searches, exploring folders, and carving files. I spent a lot of time hoping to find strong proof, like a file named “Order66.txt” or something with secret plans. But most folders were empty and many files were unreadable or damaged.

I was also confused when the registry files didn’t show up, but I learned that this happens sometimes with logical images. At first, I thought I did something wrong, but later I realized that the image just didn’t include those files. That was frustrating, but it taught me to stay patient and keep trying different ways to find evidence.

This final exam helped me in using forensic tools, solving problems, and writing clear reports. Even when I was stuck or unsure, I kept going and tried my best. I now understand how careful and detailed forensic work really is.

Appendix of Terms

1. FTK Imager – A tool used to make an exact copy of digital evidence.

2. Forensic Explorer – Software that helps check files, logs, and deleted data.
3. Hash Value – A unique code that confirms a file has not changed.
4. E01 Image File – A file format that stores a full copy of a hard drive.
5. Metadata – Hidden file details like creation date and edits.
6. Registry – A system database that keeps track of settings and user activity.
7. Deleted Files Recovery – A way to bring back removed files.
8. Unallocated Space – Empty-looking space on a hard drive that may still hold deleted files.
9. Encryption – A method to lock data so only certain people can see it.
10. Forensic Imaging – Copying a device for investigation without changing anything.
11. Digital Evidence – Any electronic data that can be used as proof.
12. Confession Document – A file found that may admit wrongdoing.
13. System Logs – Records of computer activity like logins and software use.
14. External Storage Device – A USB or hard drive used to store or move files.
15. Cyber Forensics – Investigating computers and devices for evidence.

References

FTK Imager v4.1.1.1 User Manual

Forensic Explorer Help Documentation

Course Module Week 2: Sample Report