# FTK Imager

A How-To Guide

# What is FTK Imager?

- A piece of software (made by AccessData) able to acquire digital evidence in various ways
  - physical acquisition
  - logical acquisition
  - folder/file acquisition
- Allows the investigator to quickly, efficiently, and correctly acquire evidence from a system
- It has support for plugins and external supporting hardware such as writeblockers as well for the most forensically sound acquisition possible

# **Physical Acquisition**

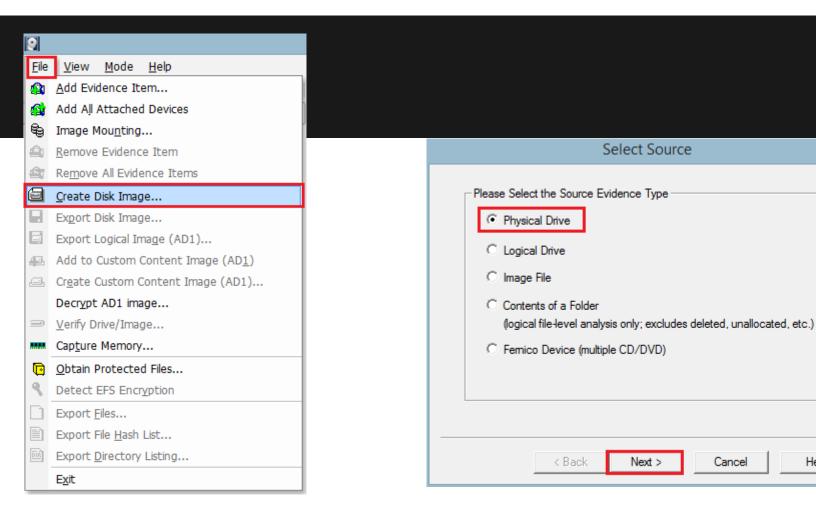
- Physical acquisition includes everything on a hard drive.
  - Unallocated space
  - Allocated space
  - Every partition on the hard drive

# Step-By-Step

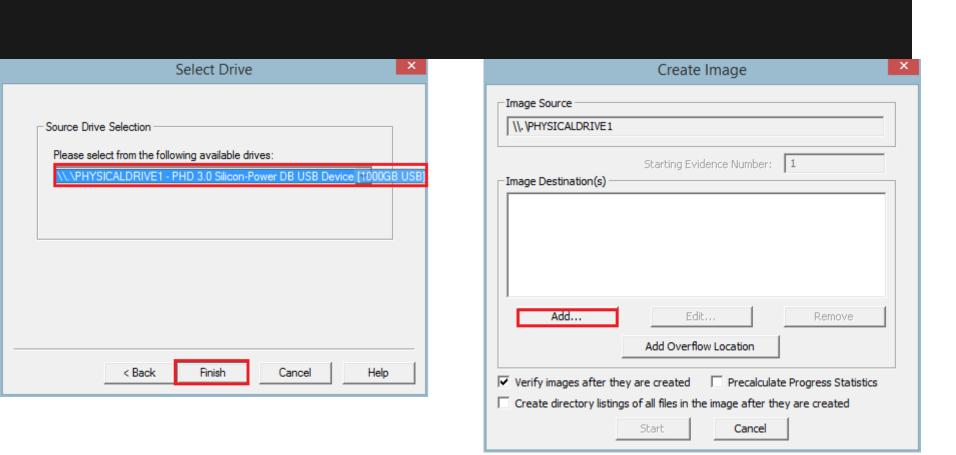
- After downloading and installing from <a href="here">here</a>, open FTK Imager by rightclicking and selecting "run as administrator"
- To perform a physical acquisition, select "File" then "Create Disk Image"
- Select "Physical Drive" and click "Next"
- First make sure the drive you want to image is connected to the computer via "Disk Manager" then in FTK Select the drive you want to acquire and click "Finish"
- A new window will appear. Select "Add" and select "E01" and press "Next"
- Fill out the case information as well as a description of the evidence and press "Next"

# Step-By-Step (cont.)

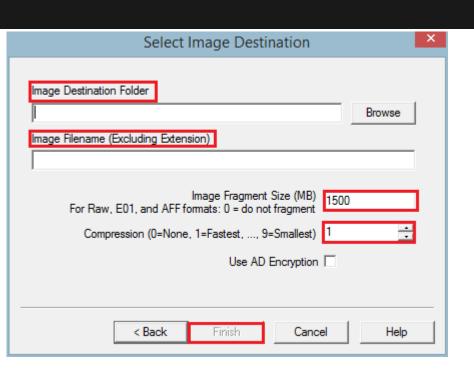
- Select the folder to save the Image to as well as input a Filename for the Image file.
- If you want the Image to be processed quickly make sure to put the compression at 0. However this will make the file size bigger. Keep this in mind. Also, FTK fragments files by default so if you simply want one large file set this number to 0. Otherwise, keep it at its default value.
- If you want to encrypt the file, select the box "Use AD Encryption"
- Then Select "Finish"
- Finally select "Start" to acquire the Image

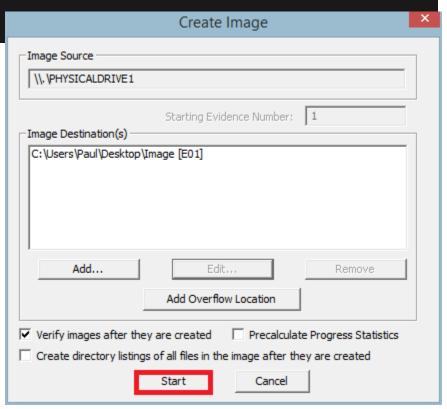


Help



| Select Image Type                                              | × | Evidence Item Information                                              |
|----------------------------------------------------------------|---|------------------------------------------------------------------------|
| Please Select the Destination Image Type  Raw (dd)  SMART  E01 |   | Case Number:  Evidence Number:  Unique Description:  Examiner:  Notes: |
| < Back Next > Cancel Help                                      |   | < Back Next > Cancel Help                                              |





# Logical Acquisition

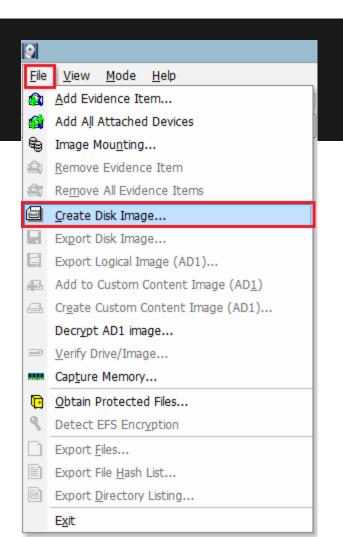
- Logical Acquisition does not include entire hard drive
- It only includes
  - Partitions
  - Files within those partitions
  - Allocated space only

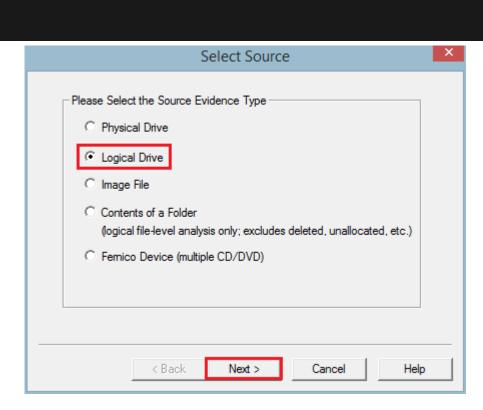
#### Step-By-Step

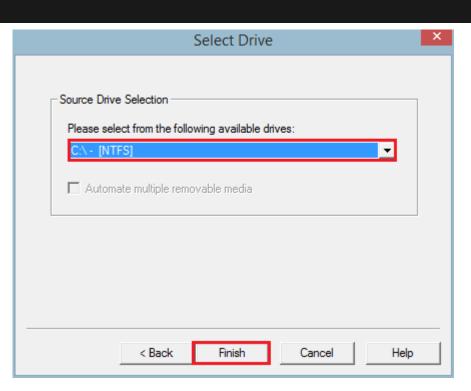
- After downloading and installing from <a href="here">here</a>, open FTK Imager by rightclicking and selecting "run as administrator"
- To perform a logical acquisition, select "File" then "Create Disk Image"
- Select "Logical Drive" and click "Next"
- First make sure the drive you want to image is connected to the computer via "Disk Manager" then in FTK Select the drive you want to acquire and click "Finish"
- A new window will appear. Select "Add" and select "E01" and press "Next"
- Fill out the case information as well as a description of the evidence and press "Next"

# Step-By-Step (cont.)

- Select the folder to save the Image to as well as input a Filename for the Image file.
- If you want the Image to be processed quickly make sure to put the compression at 0. However this will make the file size bigger. Keep this in mind. Also, FTK fragments files by default so if you simply want one large file set this number to 0. Otherwise, keep it at its default value.
- If you want to encrypt the file, select the box "Use AD Encryption"
- Then Select "Finish"
- Finally select "Start" to acquire the Image

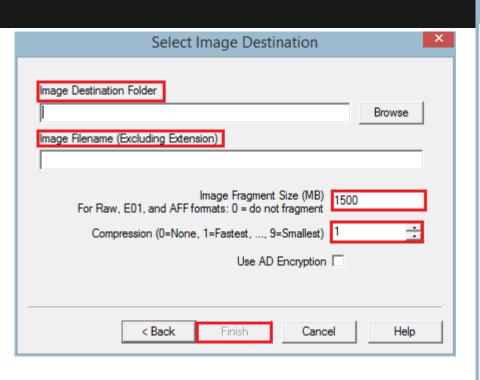






|                           | Create Image                                        | > |
|---------------------------|-----------------------------------------------------|---|
| Image Source              |                                                     |   |
| C:\                       |                                                     |   |
|                           | Starting Evidence Number; 1                         |   |
| Image Destination(s)      |                                                     | _ |
|                           |                                                     |   |
|                           |                                                     |   |
|                           |                                                     |   |
|                           |                                                     |   |
| Add                       | Edit Remove                                         |   |
|                           | Add Overflow Location                               |   |
|                           |                                                     |   |
| ✓ Verify images after the | ey are created Precalculate Progress Statistics     |   |
| Create directory listing  | gs of all files in the image after they are created |   |
|                           |                                                     |   |

| Select Image Type                                                     | Evidence Item Information                                              |
|-----------------------------------------------------------------------|------------------------------------------------------------------------|
| Please Select the Destination Image Type  C Raw (dd)  SMART  E01  AFF | Case Number:  Evidence Number:  Unique Description:  Examiner:  Notes: |
| < Back Next > Cancel Help                                             | < Back Next > Cancel Help                                              |



| Create Image                                                               | Х |
|----------------------------------------------------------------------------|---|
| _Image Source                                                              | _ |
| C:\                                                                        |   |
| Starting Evidence Number: 1                                                |   |
| C:\Users\Paul\Desktop\LogicalImage [E01]                                   |   |
|                                                                            |   |
| Add Edit Remove                                                            |   |
| Add Overflow Location                                                      |   |
| ✓ Verify images after they are created                                     |   |
| Create directory listings of all files in the image after they are created |   |
| Start Cancel                                                               |   |

# File/Folder Acquisition

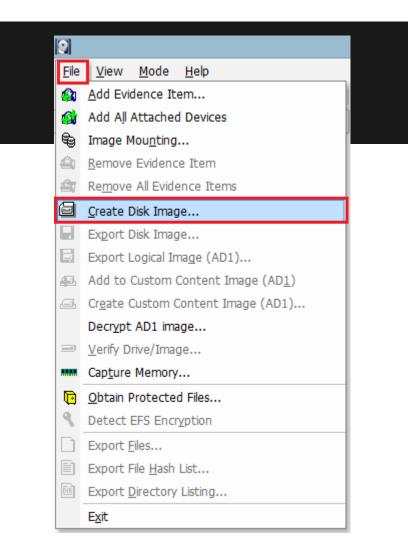
- As the name implies
  - only includes particular files or folders on a hard drive to be imaged

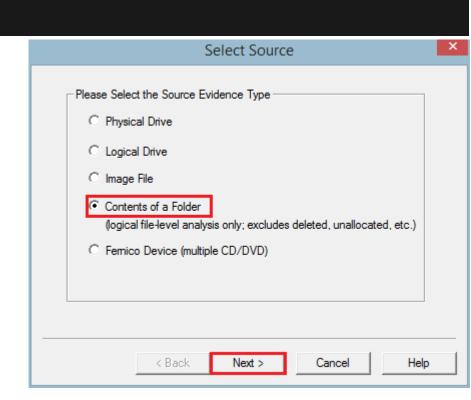
# Step-By-Step

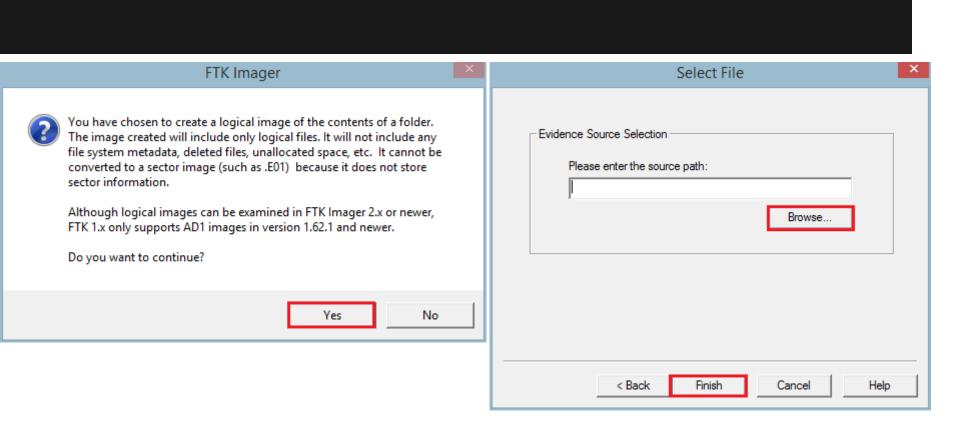
- After downloading and installing from <a href="here">here</a>, open FTK Imager by rightclicking and selecting "run as administrator"
- To perform a folder acquisition, select "File" then "Create Disk Image"
- Select "Contents of a Folder" and click "Next"
- A Window will appear that explains some of the problems with Folder only acquisitions. Simply press "Yes" to continue
- Next choose the Folder you would like to image. Then press "Finish"
- A new window will appear. Select "Add"
- Fill out the case information as well as a description of the evidence and press "Next"

# Step-By-Step (cont.)

- Select the folder to save the Image to as well as input a Filename for the Image file.
- If you want the Image to be processed quickly make sure to put the compression at 0. However this will make the file size bigger. Keep this in mind. Also, FTK fragments files by default so if you simply want one large file set this number to 0. Otherwise, keep it at its default value.
- If you want to encrypt the file, select the box "Use AD Encryption"
- Then Select "Finish"
- Finally select "Start" to acquire the Image

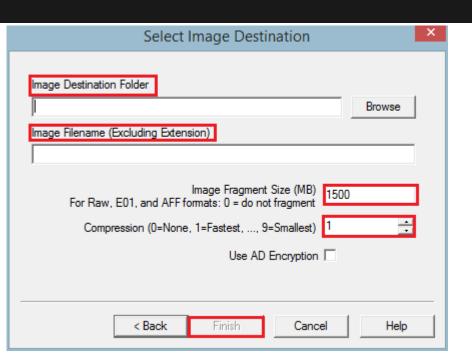


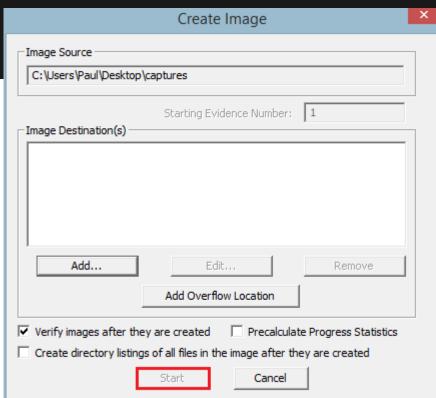




| C:\Users\Paul\Desktop\ | \captures                   |        |
|------------------------|-----------------------------|--------|
| nago Dogtination(s) —  | Starting Evidence Number:   | 1      |
| nage Destination(s)    |                             |        |
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|                        |                             |        |
|                        |                             |        |
|                        |                             |        |
| Add                    | Edit,,,                     | Remove |
| Add                    | Edit  Add Overflow Location | Remove |
|                        |                             |        |

|   |                                                                    | Evidence Item Information | >  |
|---|--------------------------------------------------------------------|---------------------------|----|
|   | Case Number: Evidence Number: Unique Description: Examiner: Notes: |                           |    |
| - |                                                                    | < Back Next > Cancel Hel  | lp |





#### Conclusion

- Now you can correctly conduct forensic acquisitions of your own
- For more information on AccessData and FTK Imager click the link here