



CAPSTONE ASSIGNMENT

Report of Findings

By: Vincent Cruz
Date: August 5, 2022

Support Requested

A confidential human source suspects Dallas resident Martin Strong of being aligned with an extremist group. Martin Strong is also accused of planning an assassination attempt on a US Senator. A Technical Operations team has provided three of Strong's thumb drives, as well as the MD5 of an image Strong is suspected of posting: c3bf69cfac2e727195c92dc73667751a

Goals:

Find out which Senator is the target.

Find who Strong's accomplices are.

Find out how Strong was trained.

Decipher Strong's plans.

Items Analyzed

Item: Martin Strong's thumb drive found in his bedroom

File name: Strong_Thumbdrive_BEDROOM.001

Size: 65.5 MB

MD-5: f4d153a01691d8840a74f30c5b4d4eb0

Item: Martin Strong's thumb drive found in his kitchen

File name: Strong_Thumbdrive_KITCHEN.001

Size: 65.5 MB

MD-5: 1b06f8f3abea126311aa1f19e85a001b

Item: Martin Strong's thumb drive found in his living room

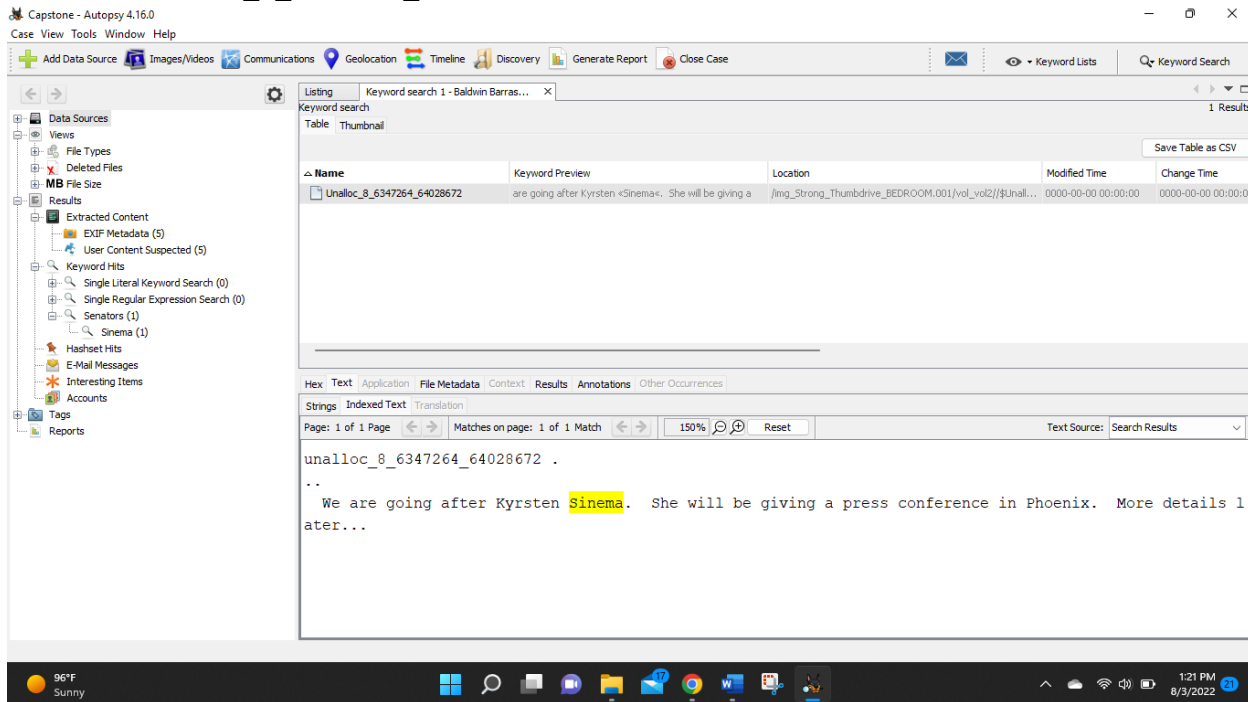
File name: Strong_Thumbdrive_LIVINGROOM.001

Size: 65.5 MB

MD-5: 244f240b447f0efc3d3389d9a06aa7c5

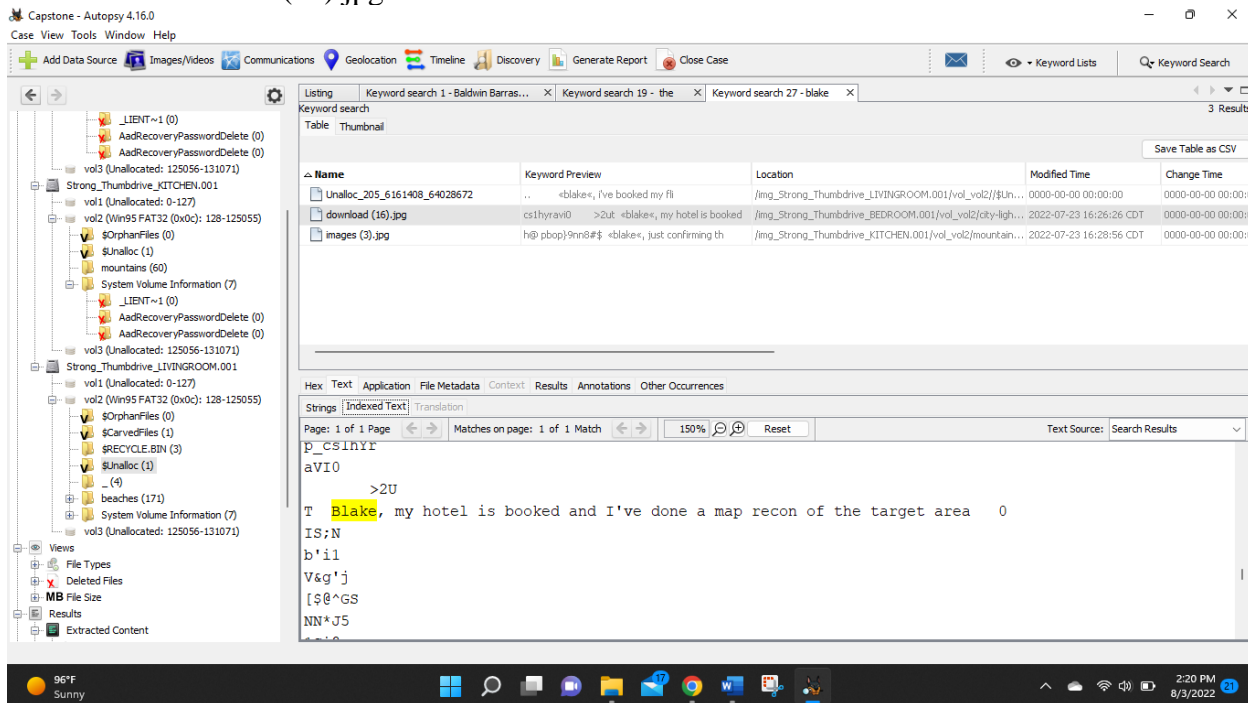
Discussion of Findings

- Exhibit A: unalloc_8_6347264_64028672



In this file, Strong hides a message which draws out his target for his accomplice.

- Exhibit B: download (16).jpg



Strong seems to be working with someone named Blake, according to multiple messages.

- Exhibit C: Unalloc_59_5370880_64028672

Capstone - Autopsy 4.16.0

Case View Tools Window Help

Add Data Source Images/Videos Communications Geolocation Timeline Discovery Generate Report Close Case

Listing Keyword search 1 - Baldwin Barras... X

Table Thumbnail

1 Results

| Name | S | C | Modified Time | Change Time | Access Time | Created Time | Size | Flags(Dir) | Flags(Meta) | Known |
|-----------------------------|---|---|---------------------|---------------------|---------------------|---------------------|----------|-------------|-------------|---------|
| Unalloc_59_5370880_64028672 | | | 0000-00-00 00:00:00 | 0000-00-00 00:00:00 | 0000-00-00 00:00:00 | 0000-00-00 00:00:00 | 58657792 | Unallocated | Unallocated | unknown |

Save Table as CSV

Hex Text Application File Metadata Context Results Annotations Other Occurrences

Strings Indexed Text Translation

Page: 1 of 1 Page Matches on page: - of - Match 150% Reset Text Source: File Text

https://www.youtube.com/watch?v=WTepTkXMT4U

96°F Sunny 1:30 PM 8/3/2022

In this file is a link to a youtube video titled, “Max Ordinate Precision Sniper Rifle Training Part 1” which is how Strong was getting his training.

- Exhibit D: Unalloc_204_64028672_67108864

Capstone - Autopsy 4.16.0

Case View Tools Window Help

Add Data Source Images/Videos Communications Geolocation Timeline Discovery Generate Report Close Case

Listing Keyword search 1 - Baldwin Barras... X Keyword search 19 - the X Keyword search 27 - blake X

Table Thumbnail

3 Results

| Name | Keyword Preview | Location | Modified Time | Change Time |
|-------------------------------|---|--|-------------------------|---------------------|
| Unalloc_204_64028672_67108864 | martin here are the details of the operation | /img_Strong_Thumbdrive_LIVINGROOM.001/vol_vo3/Unall... | 0000-00-00 00:00:00 | 0000-00-00 00:00:00 |
| download (16).jpg | done a map recon of the target area disj | /img_Strong_Thumbdrive_BEDROOM.001/vol_vo2/cty-ligh... | 2022-07-23 16:26:26 CDT | 0000-00-00 00:00:00 |
| images (3).jpg | ming that I received the keycard & security g | /img_Strong_Thumbdrive_KITCHEN.001/vol_vo2/mountain... | 2022-07-23 16:28:56 CDT | 0000-00-00 00:00:00 |

Save Table as CSV

Hex Text Application File Metadata Context Results Annotations Other Occurrences

Strings Indexed Text Translation

Page: 1 of 1 Page Matches on page: 1 of 2 Match 150% Reset Text Source: Search Results

[unalloc_204_64028672_67108864, Martin here are the details of the operation: TWfYdGluLCB0aGUgU2VuYXRvc...]

96°F Sunny 2:22 PM 8/3/2022

In this hidden message, Blake gives Martin the plan, hidden in Base64

A screenshot of a web browser window. The address bar shows the URL 'ervnet.com/deets.png'. The main content area displays a large QR code. To the right of the QR code, a Google Lens search interface is visible, showing the text 'QR code: Text' and 'Date: August 8th Time: 9am'. Below this, there are 'Visual matches' including a smaller QR code and a price tag '\$349.00'. The browser's taskbar at the bottom shows various application icons and the system clock indicating 3:42 PM on 8/3/2022.

The link leads to this QR code, which reveals this message. The coordinates point to right outside Senator Kyrsten Sinema's office in Phoenix.

Capstone - Autopsy 4.16.0

Case View Tools Window Help

Add Data Source Images/Videos Communications Geolocation Timeline Discovery Generate Report Close Case

Keyword search 1 - Baldwin Barras... X Keyword search 19 - the X Keyword search 27 - blake X

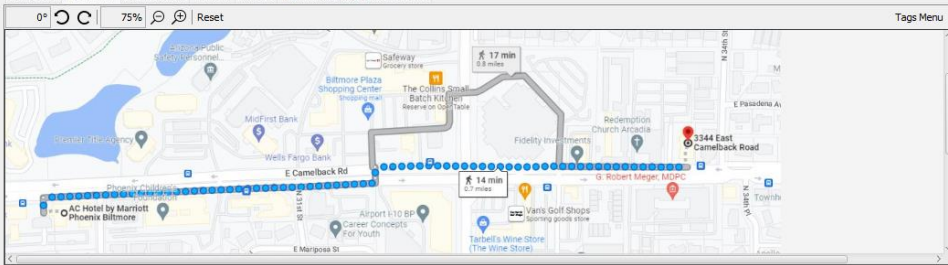
Listing /img_Strong_Thumbdrive_LIVINGROOM.001/vol_vol2/beaches/ 4 Results

| Name | S | C | Modified Time | Change Time | Access Time | Created Time | Size | Flags(Dir) | Flags(Meta) | Known | Location |
|------------------|---|---|-------------------------|---------------------|-------------------------|-------------------------|--------|------------|-------------|---------|----------|
| [current folder] | | | 2022-07-23 15:42:00 CDT | 0000-00-00 00:00:00 | 2022-07-23 00:00:00 CDT | 2022-07-23 16:10:59 CDT | 512 | Allocated | Allocated | unknown | /r |
| [parent folder] | | | 2022-07-23 15:45:00 CDT | 0000-00-00 00:00:00 | 2022-07-23 00:00:00 CDT | 2022-07-23 16:10:35 CDT | 17498 | Allocated | Allocated | unknown | /r |
| amazon.JPG | | | 2022-07-23 16:30:12 CDT | 0000-00-00 00:00:00 | 2022-07-23 00:00:00 CDT | 2022-07-23 16:10:59 CDT | 15488 | Allocated | Allocated | unknown | /r |
| recon.JPG | | | 2022-07-23 16:30:12 CDT | 0000-00-00 00:00:00 | 2022-07-23 00:00:00 CDT | 2022-07-23 16:10:59 CDT | 122828 | Allocated | Allocated | unknown | /r |

Hex Text Application File Metadata Context Results Annotations Other Occurrences

0% 75% Reset

Tags Menu



96°F Sunny 2:30 PM 8/3/2022

This seems to be Martin Strong's path from his hotel to the target.

Capstone - Autopsy 4.16.0

Case View Tools Window Help

Add Data Source Images/Videos Communications Geolocation Timeline Discovery Generate Report Close Case

Keyword search 1 - Baldwin Barras... X Keyword search 19 - the X Keyword search 27 - blake X Keyword search 29 - podium X


Keyword search 29 - podium 2 Results

| Name | Keyword Preview | Location | Modified Time | Change Time | Access |
|---------------------------------|---------------------------------|--|-------------------------|---------------------|-------------------------|
| image_podium_location.JPG | image_podium_location.jpg | /img_Strong_Thumbdrive_LIVINGROOM.001/vol_vol2/beac... | 2022-07-23 16:30:12 CDT | 0000-00-00 00:00:00 | 2022-07-23 16:10:59 CDT |
| image_podium_location.JPG-slack | image_podium_location.jpg-slack | /img_Strong_Thumbdrive_LIVINGROOM.001/vol_vol2/beac... | 2022-07-23 16:30:12 CDT | 0000-00-00 00:00:00 | 2022-07-23 16:10:59 CDT |

Hex Text Application File Metadata Context Results Annotations Other Occurrences

0% 75% Reset

Tags Menu



96°F Sunny 2:47 PM 8/3/2022

He also seems to have outlined the place of the podium in image_podium_location.JPG

- Exhibit E: images.jpg

The screenshot displays the Capstone - Autopsy 4.16.0 interface. The top menu bar includes 'Case', 'View', 'Tools', 'Window', and 'Help'. Below the menu, there are tabs for 'Add Data Source', 'Images/Videos', 'Communications', 'Geolocation', 'Timeline', 'Discovery', 'Generate Report', and 'Close Case'. The left sidebar shows a tree view of the case data, including 'Views', 'File Types', 'Deleted Files', 'File System (16)', 'All (18)', 'MB File Size', 'Results', 'Extracted Content', 'EXIF Metadata (5)', 'User Content Suspected (5)', 'Keyword Hits', 'Single Literal Keyword Search (3)', 'Single Regular Expression Search (68)', 'Sinema (1)', 'blake (3)', 'details (2)', 'hi (56)', 'podium (2)', 'security (1)', 'the (3)', 'Senators (1)', 'Sinema (1)', 'Hashset Hits', 'Extremist (1)', 'E-Mail Messages', 'Interesting Items', and 'Accounts'. The main window shows a table of search results for 'Extremist'. The table has columns for 'Source File', 'S', 'C', 'MD5 Hash', 'Comment', and 'File Path'. A single result is shown for 'images.jpg' with MD5 Hash 'c3bf69dfe2e727195c92dc73667751a' and File Path '/img_Strong_Thumbdrive_LIVINGROOM.001/vol2/beaches/images.jpg'. Below the table, there is a preview of the image, which shows a rifle. The bottom status bar indicates '99°F Sunny' and the date '8/3/2022'.

| Source File | S | C | MD5 Hash | Comment | File Path |
|-------------|---|---|---------------------------------|---------|---|
| images.jpg | | | c3bf69dfe2e727195c92dc73667751a | | /img_Strong_Thumbdrive_LIVINGROOM.001/vol2/beaches/images.jpg |

The hash set with the known MD5 from the extremist website did flag this picture, so Strong's photo does match the MD5.

Exhibit F: Unalloc_58_64028672_67108864

Capstone - Autopsy 4.16.0
Case View Tools Window Help

Add Data Source Images/Videos Communications Geolocation Timeline Discovery Generate Report Close Case

Keyword search 1 - Baldwin Barras... Keyword search 7 - [\\-?__...]

Listing /img_Strong_Thumbdrive_KITCHEN.001/vol3

Table Thumbnail

| Name | S | C | Modified Time | Change Time | Access Time | Created Time | Size | Flags(Dir) | Flags(Meta) | Known |
|------------------------------|---|---|---------------------|---------------------|---------------------|---------------------|---------|-------------|-------------|---------|
| Unalloc_58_64028672_67108864 | | | 0000-00-00 00:00:00 | 0000-00-00 00:00:00 | 0000-00-00 00:00:00 | 0000-00-00 00:00:00 | 3080192 | Unallocated | Unallocated | unknown |

Save Table as CSV

Hex Text Application File Metadata Context Results Annotations Other Occurrences

Strings Indexed Text Translation

Page: 1 of 1 Page Matches on page: - of - Match 150% Reset Text Source: File Text

<https://www.youtube.com/watch?v=D2RdU6gv0Es>

96°F Sunny 1:45 PM 8/3/2022

In this deleted file, a link to another youtube video titled, “Leupold VX-5HD 3-15x56mm (FireDot Duplex)” which tells us what type of scope Strong plans to use.

Capstone - Autopsy 4.16.0
Case View Tools Window Help

Add Data Source Images/Videos Communications Geolocation Timeline Discovery Generate Report Close Case

Keyword search 1 - Baldwin Barras... Keyword search 19 - the Keyword search 27 - blake

Listing /img_Strong_Thumbdrive_LIVINGROOM.001/vol_vol2/beaches/


Table Thumbnail

| Name | S | C | Modified Time | Change Time | Access Time | Created Time | Size | Flags(Dir) | Flags(Meta) | Known |
|------------------|---|---|-------------------------|---------------------|-------------------------|-------------------------|--------|------------|-------------|---------|
| [current folder] | | | 2022-07-23 15:42:00 CDT | 0000-00-00 00:00:00 | 2022-07-23 00:00:00 CDT | 2022-07-23 16:10:59 CDT | 512 | Allocated | Allocated | unknown |
| [parent folder] | | | 2022-07-23 15:45:00 CDT | 0000-00-00 00:00:00 | 2022-07-23 00:00:00 CDT | 2022-07-23 16:10:35 CDT | 17408 | Allocated | Allocated | unknown |
| amzn.JPG | | | 2022-07-23 16:30:12 CDT | 0000-00-00 00:00:00 | 2022-07-23 00:00:00 CDT | 2022-07-23 16:10:59 CDT | 15488 | Allocated | Allocated | unknown |
| recom.JPG | | | 2022-07-23 16:30:12 CDT | 0000-00-00 00:00:00 | 2022-07-23 00:00:00 CDT | 2022-07-23 16:10:59 CDT | 122828 | Allocated | Allocated | unknown |

Save Table as CSV

Hex Text Application File Metadata Context Results Annotations Other Occurrences

0° 214% Reset Tags Menu

 **Leupold VX-5HD 3-15x44mm Side Focus Riflescope**
\$1,299.99 ✓prime
Qty: 1
Sold by: Eurooptic LTD

96°F Sunny 2:29 PM 8/3/2022

Here is a photo of the scope he plans to use in amzn.JPG