

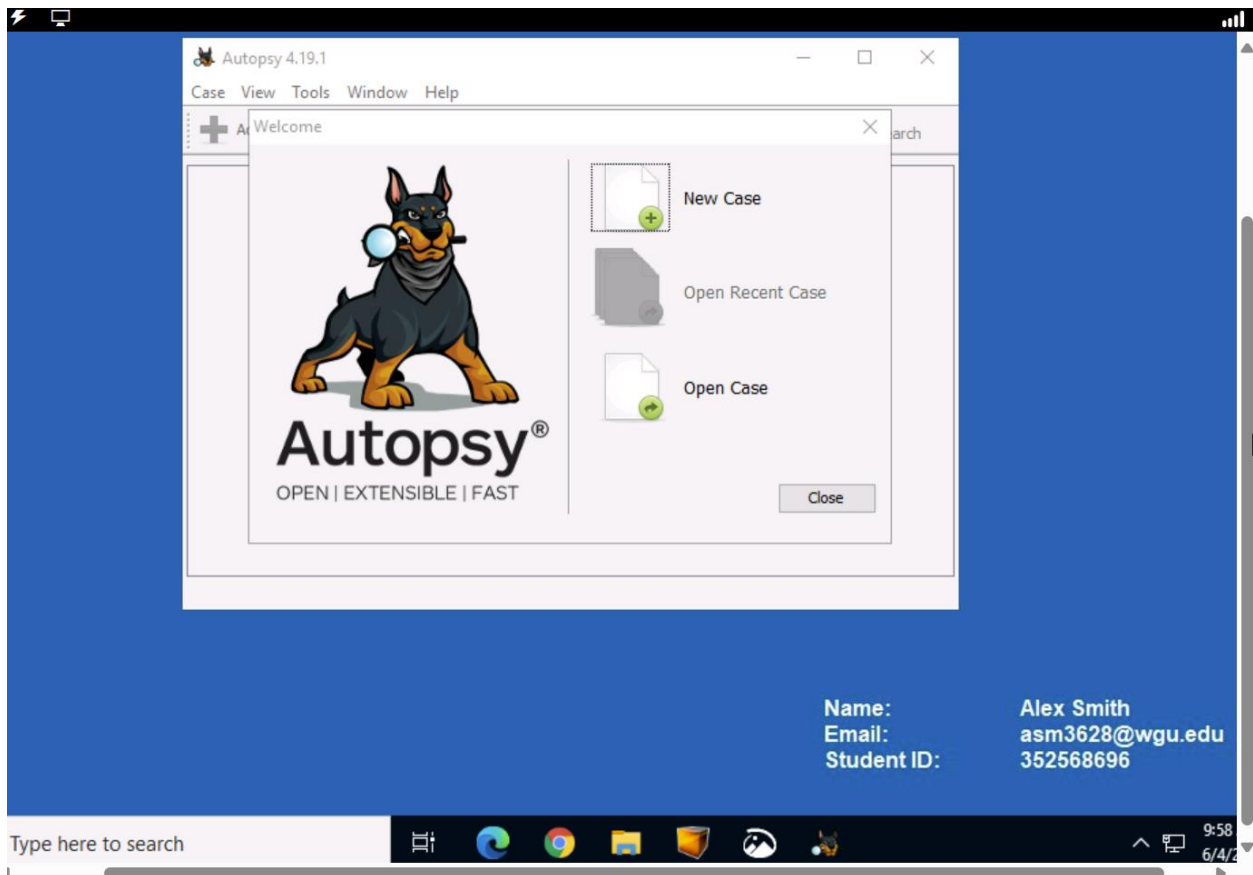
Digital Forensics in Cybersecurity – D431

Alex Smith

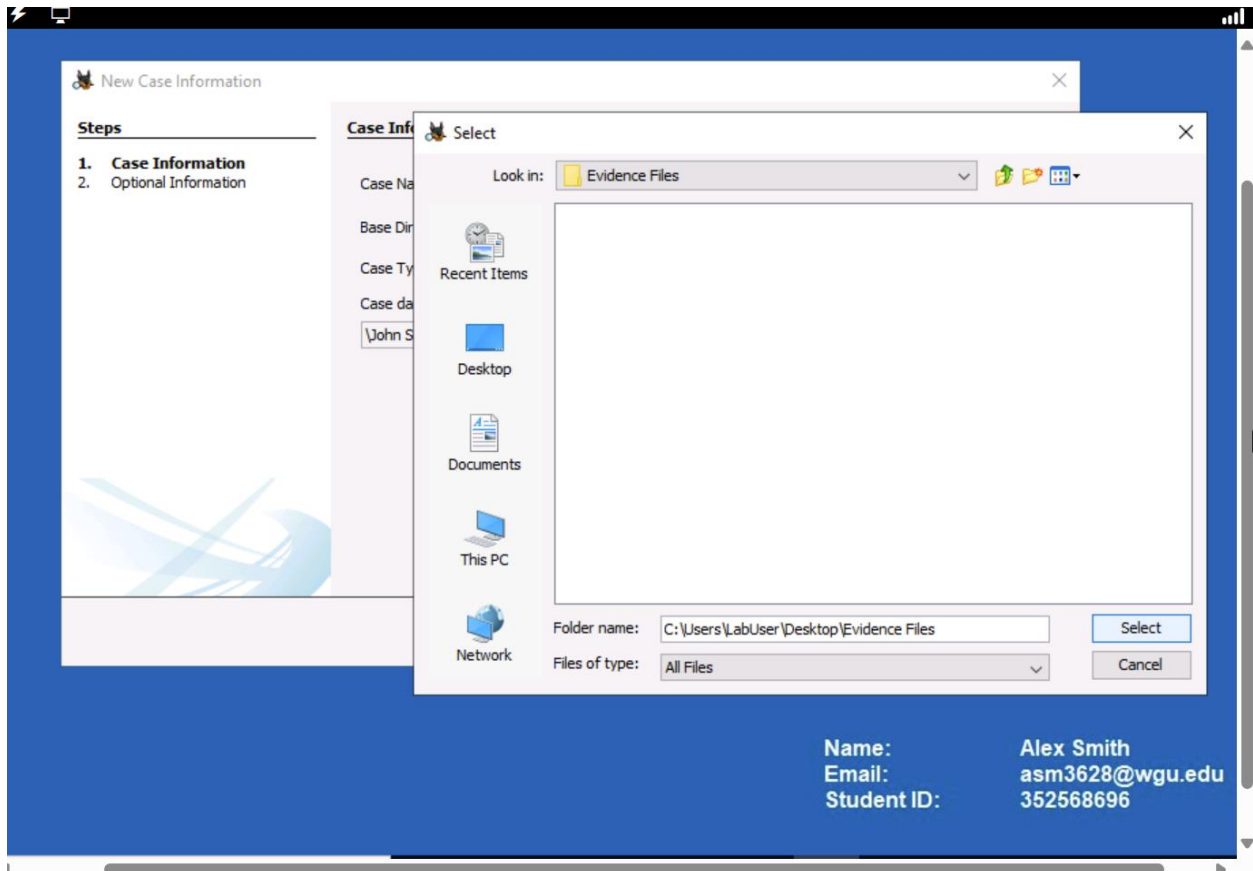
June 04, 2024

A.1 Create a forensic system case file

The first step was to launch Autopsy on the desktop by double clicking Autopsy on the desktop then clicking on new case.



Created the Case named John Smith, manually entered the desired base directory path as C:\Users\LabUser\Desktop\Evidence Files and clicked "Select" then "Next" on following window.



New Case Information

Steps

1. Case Information

2. Optional Information

Case Information

Case Name: John Smith

Base Directory: C:\Users\LabUser\Desktop\Evidence Files

Case Type: ☒ Single-User ☐ Multi-User

Case data will be stored in the following directory:
C:\Users\LabUser\Desktop\Evidence Files\John Smith

Browse

< Back

Next >

Finish

Cancel

Help

Name: Alex Smith

Email: asm3628@wgu.edu

Student ID: 352568696

I Entered my Student ID number as the case number and the name on the examiner details page then hit “Finish”

New Case Information

Steps

1. Case Information
2. **Optional Information**

Optional Information

Case

Number: 352568696

Examiner

Name: 352568696

Phone:

Email:

Notes:

Organization

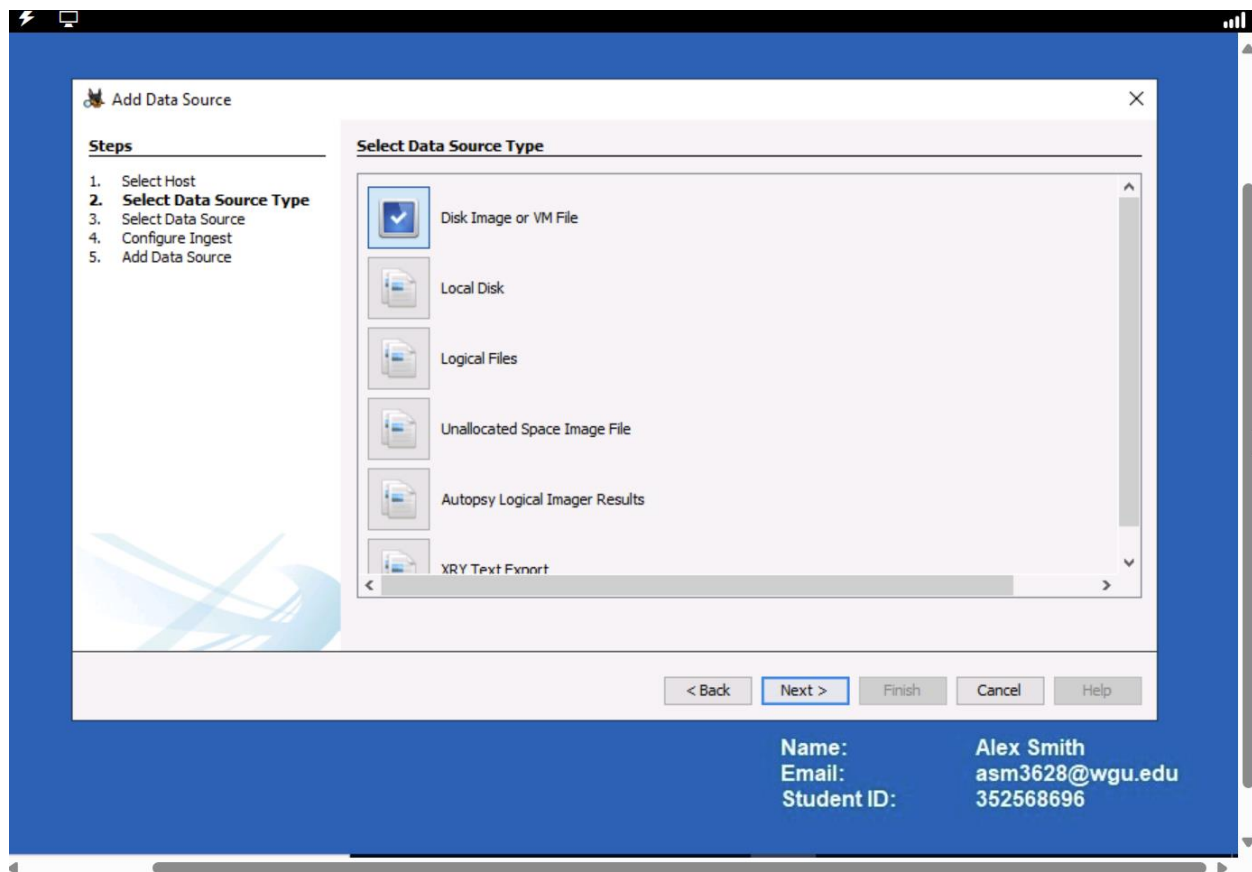
Organization analysis is being done for: Not Specified ▾ Manage Organizations

< Back Next > Finish Cancel Help

Name: Alex Smith
Email: asm3628@wgu.edu
Student ID: 352568696

Selected Host accepted the default settings and clicked Next. Chose the data source type, Disk Image or VM file, and clicked “Next”

i



I Selected the Data Source path by browsing to: C:\Users\LabUser\Desktop\Evidence Files\JSmith_Q1.001. Chose the Data Source and accepted the defaults, then clicked Next. Configured Ingest with the default settings and clicked Next. Added the Data Source and, upon seeing the message "Data source has been added to the local database. Files are being analyzed," clicked Finish.

Add Data Source

Steps

1. Select Host

2. Select Data Source Type

3. **Select Data Source**

4. Configure Ingest

5. Add Data Source

Open

Look in: Evidence Files

Recent Items

Desktop

Documents

This PC

Network

John Smith

JSmith_Q1.001

File name: JSmith_Q1.001

Files of type: All Supported Types

Open

Cancel

< Back

Next >

Finish

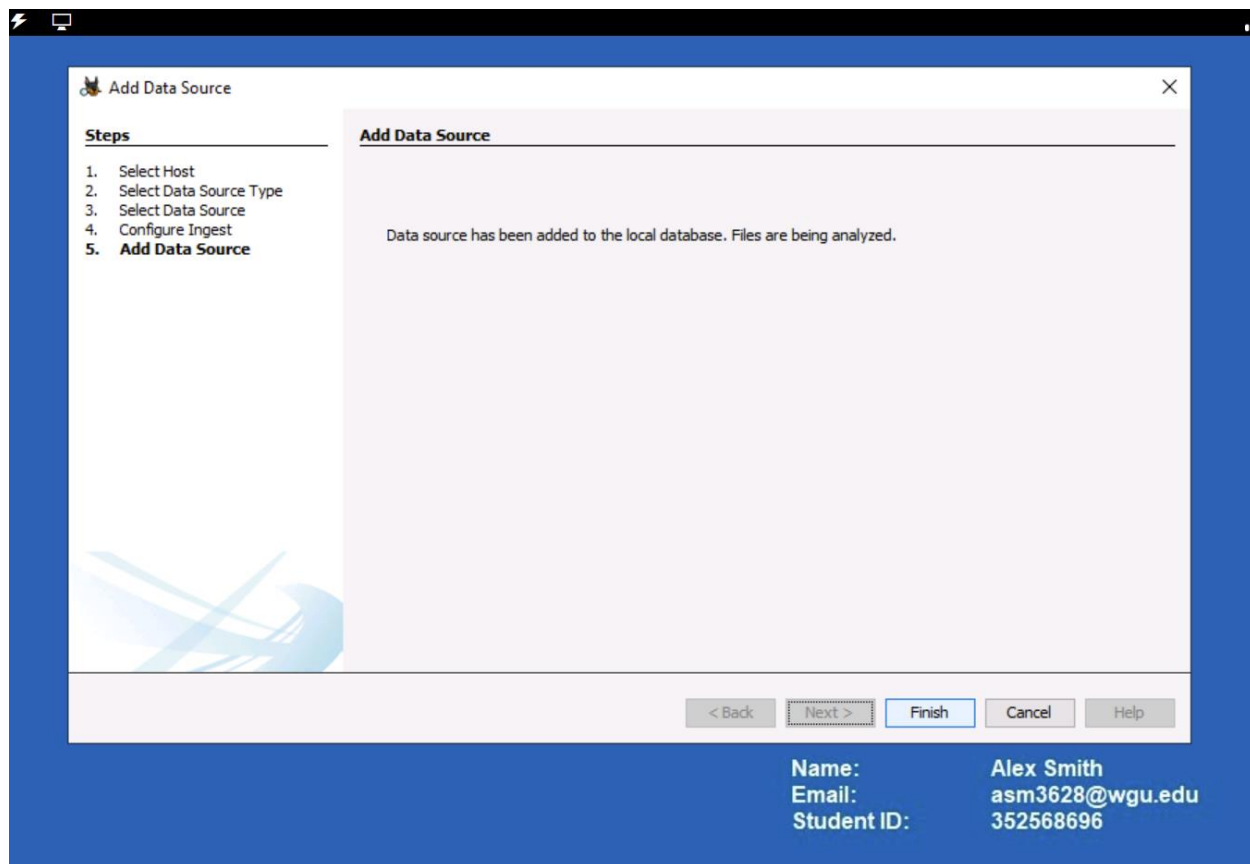
Cancel

Help

Name: Alex Smith

Email: asm3628@wgu.edu

Student ID: 352568696



At this time, I begin my analysis

While performing my analysis, I locate and right-click on the desired file name. From the context menu, select "Extract File(s)." I Choose to save the files to the Export Folder located at: C:\Users\LabUser\Desktop\Evidence Files\Example\Export

John Smith - Autopsy 4.19.1

Case View Tools Window Help

Add Data Source

Images/Videos

Communications

Keyword Lists

Keyword Search

Listing

All

12 Results

Table

Thumbnail

Summary

Save Table as CSV

Name	S	C	O	Modified Time	Change
Business Strategy.pdf			1	2021-08-11 14:58:54 EDT	0000-C
Drilling			1	2021-08-11 13:41:32 EDT	0000-C
How to			1	2021-08-12 10:31:38 EDT	0000-C
Oil co			1	2021-08-12 10:24:02 EDT	0000-C
Oilco			1	2021-08-12 10:23:38 EDT	0000-C
The be			1	2021-08-12 10:33:02 EDT	0000-C

Context

Annotations

Other Occurrences

File Metadata

OS Account

100%

+

1:1

2

Data Sources

File Views

File Types

Deleted Files

File System (6)

All (12)

MB File Size

Data Artifacts

Metadata (11)

Analysis Results

Keyword Hits (1)

OS Accounts

Tags

Reports

Properties

View File in Directory

View in New Window

Open in External Viewer Ctrl+E

View File in Timeline...

Extract File(s)

Export Selected Rows to CSV

Add File Tag

Remove File Tag

Add File to Hash Set

Name:

Alex Smith

Email:

asm3628@wgu.edu

Student ID:

352568696

⚡

📶

🔍

📁 | 📄 | 📄 | 📄 | Export

File Home Share View

< > ⬆ ⬆ < John... > Export 🔍 Search Export

★ Quick access

🖥 Desktop

⬇ Downloads

📄 Documents

🖼 Pictures

💻 This PC

📦 3D Objects

🖥 Desktop

📄 Documents

⬇ Downloads

🎵 Music

🖼 Pictures

Name	Date modified	Type
📄 Business_Strategy.pdf	6/4/2024 10:38 AM	Microsoft
📄 Drilling Methodology.pdf	6/4/2024 10:35 AM	Microsoft
📄 f0000000_business_Strategy.pdf	6/4/2024 10:35 AM	Microsoft
📄 f0001128_Drilling_Methodology.pdf	6/4/2024 10:35 AM	Microsoft
📄 f0002256.pdf	6/4/2024 10:35 AM	Microsoft
🖼 f0002784.jpg	6/4/2024 10:36 AM	JPG File
🖼 f0002808.jpg	6/4/2024 10:36 AM	JPG File
📄 f0002824.pdf	6/4/2024 10:36 AM	Microsoft
📄 How to buy and pay with bitcoin anony...	6/4/2024 10:35 AM	Microsoft
🖼 Oil_co_Conf.jpg	6/4/2024 10:35 AM	JPG File
🖼 Oilco_Conf2.jpg	6/4/2024 10:35 AM	JPG File
📄 The best way to hide something, is in plai...	6/4/2024 10:35 AM	Microsoft

12 items

Name:

Email:

Student ID:

Alex Smith
asm3628@wgu.edu
352568696

A.2 Evidence



Oil Company
CONFIDENTIAL Restricted
Business Strategies 2021

Innovating energy solutions: Research and development highlights

R&D has been part of Oil Company since our company began. Our innovations have helped provide the energy fundamental to modern life – from the clean, efficient fuels that power today’s transportation to the natural gas that provides light and heat to homes and businesses.

Today, our world faces a dual challenge: meeting growing demand for energy while also reducing environmental impacts, including the risks of climate change. Oil Company is committed to doing our part.

Today, we are working to develop the next generation of energy solutions, including: advanced biofuels; carbon capture and storage; natural gas technologies; and new energy efficiency processes. In addition to our robust in-house capabilities, we collaborate with leading research and technology companies, national labs and universities, and others involved in breakthrough energy research. While all forms of energy are needed – including natural gas and renewables such as wind and solar – new technologies will be required to meet the world’s emissions-

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Email: asm3628@wgu.edu
Student ID: 352568696

Drilling Methodology.pdf

C:/Users/LabUser/Desktop/Evidence%...

1 of 3

Oil Company
CONFIDENTIAL Restricted
Oil Strategies 2021
Field 007-A

Field 007-A was recently located in Nigeria. Current discussions with local government have been successful and the below methods will be used in the various parcels of the field. Proprietary methods listed below will result in maximum extraction with little environmental concerns. Current business risk is competitors learning the methodology and steps used in the location based on soil conditions. The company first to deploy these technologies should be able to extract more than 75% of available oil.

Conventional Enhanced Oil Recovery Methods

Controlled-ionic flooding

Smart Water flooding

Low salinity flooding

Chemical EOR

Alkaline flooding

Surfactant flooding

Gas EOR

CO₂ flooding

Thermal EOR

Figure 1

Classification of conventional enhanced oil recovery methods.

1 of 2

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Crypto > How to buy and pay with bitcoin anonymously

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How to buy and pay with bitcoin anonymously

AIMEE O'DRISCOLL · VPN AND CYBERSECURITY EXPERT
April 18, 2018



As a form of currency, bitcoin has many advantages. Based on blockchain technology, it offers a secure method of fast payments with relatively low transaction fees. While the nature of the blockchain makes bitcoin secure, it isn't very private. For those looking to pay with bitcoin anonymously, there are issues to overcome.

While it's not inherently private, there are ways to make buying and paying with bitcoin more anonymous. Even if you purchase coins through an open method, using the right steps you can mask their history and spend them in almost completely untraceable transactions.

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Name: Alex Smith

Email: asm3628@wgu.edu

Student ID: 352568696

The best way to hide something

File | C:/Users/LabUser/Desktop/Evidence%...

1 of 3

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Blockchain courseware

10/08/2020 ILIAS LOUIS HATZIS

The best way to hide something, is in plain sight. Crypto laundering.



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FIRST NAME:*

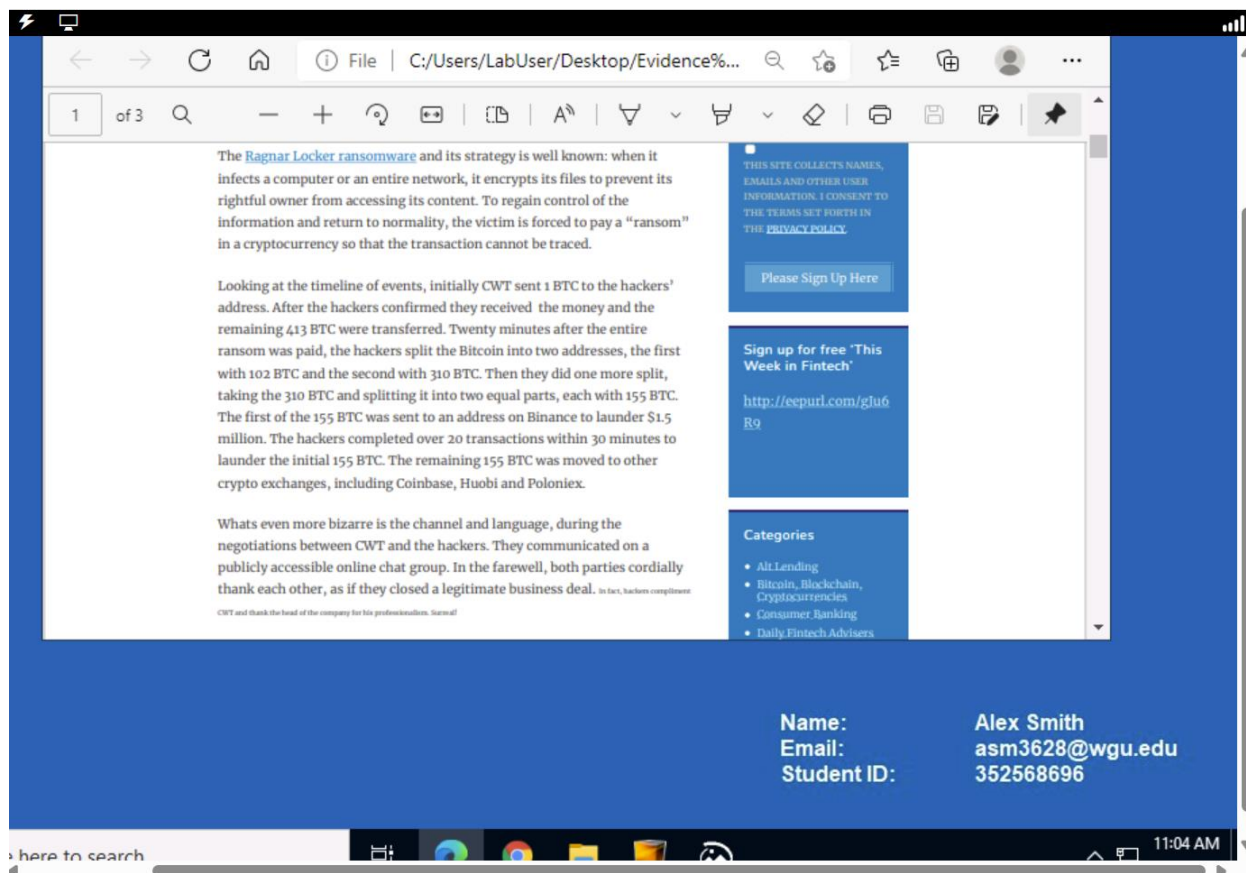
LAST NAME:*

ADDRESS:*

Name: Alex Smith

Email: asm3628@wgu.edu

Student ID: 352568696



A.3 Summary

From the evidence that was gathered, John Smith seems to have made copies of documents and renamed it. He has also been doing some research on cryptocurrency laundering and how to receive cryptocurrency anonymously. The documents have “CONFIDENTIAL” watermarked on them. This leads me to believe that these documents were confidential, and John Smith may have gained unauthorized access to the confidential documents. There is unmistakable evidence that John Smith was planning to give the documents to a crime team or a competitor of the company in exchange for cryptocurrency or even worse use ransomware to withhold documents until he was given money through cryptocurrency undetected. Mr. Smith was researching ways he can launder cryptocurrency as seen in evidence above, the articles found on his computer on how to launder cryptocurrency. This is enough evidence against Mr. Smith to confirm he has wrongly taken confidential documents and was planning to use them for his own personal gain at any means necessary that would have hurt his Oil Company financially and its reputation.