

Tom and Leslie Case Report

CIS330

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Players:

Company: Price Software Company

Competitors: Saspah Software Company

Stayce Price: Owner

Tom Warner: Senior Sales Manager

Leslie Stowle: Finance Manager

Larry Ezeerf: Senior Vice President, Price Software Company.

Chris Melonis: Senior Vice President, Saspah Software Company.

Background:

As sales manager, Tom is involved in all aspects of the company. He attends all development meetings and has been with the company since its inception.

As the company grows, plans have been made for its expansion. A new senior vice president and two additional vice president positions are to be created.

Tom thinks he will receive one of the vice president positions.

Tom and Leslie have been friends for the past few years. Although both are married, their relationship has recently become more involved.

Case:

In the past, Tom was involved in all aspects of the company. Recently, Tom was left out of key meetings where new promotions were discussed, which upset him.

Tom was obsessed with finding out what was going on. Tom has administrator rights on the server because he assisted in the server set-up. His administrator rights were never revoked.

Tom started working late. After everyone left, he would use his administrator rights to access files he did not have permission to access.

Tom looked at documents from the owner Stayce Price to Senior Vice President Larry Ezeerf. He found that he was not going to be promoted. The company was going to bring in new employees to fill the new positions.

Tom sent an email to Leslie telling her how upset he was. The two correspond by email about how unhappy they were with their jobs. They came up with a plan to GET EVEN.

Tom met with Chris Melonis. They agreed that if Tom would provide Chris with insider information, Tom would be offered a vice president position with Saspah Software. Leslie would also be offered a job. Over the next few months, Tom attended development meetings and passed the information to Saspah.

Tom started copying files from the server to his computer and emailing them to Saspah using a Hotmail account. Tom and Leslie decided to skim money from the company. As finance manager, Leslie had access to the company account numbers and credit card information. Leslie searched the Internet for embezzlement schemes.

Tom and Leslie used company credit cards to purchase airline tickets and vacation packages. Leslie kept Excel spreadsheets records of the transactions. In an attempt to hide her activities, she created a second spreadsheet to track where the money came from.

EVIDENCE:

- 1.Information showing Tom and Leslie's romance.
- 2.Information showing Tom's excitement at the prospect of getting promoted.
- 3.Information showing Tom's concerns.
- 4.Tom logging on to his system and accessing other computers after hours.
- 5.Information showing his meeting with Mr. Melonis of Saspah Software.
- 6.Evidence showing Tom copying files from the server to his computer and what he did with the files.
- 7.Leslie's computer accessed files that were never on her computer from a USB drive.

8. Leslie browsing the Internet for vacation deals.
9. Information about how Tom and Leslie felt that the company owes them.
10. Evidence showing Leslie coping files containing company account numbers.
11. Information showing discussions about how they might use the accounts.
12. Leslie searching for embezzlement schemes on the Internet.
13. Leslie e-mailing Tom links she found on the Internet.
14. Leslie creating a second set of "books" (the Excel spreadsheets).

Systems:

2kadvserver.PSC.LOCAL
PDC with Exchange Server

PSC-WS-01	Tom's workstation
PSC-WS-02	Leslie's workstation
PSC-WS-03	Used to create e-mail and other evidence.

Users:

		administrator
Tom Warner	Manager	twarner
	Hotmail	hotdog918@hotmail.com
Stayce Price	Owner/CEO	sprice
Leslie Stowle	Finance Manager	lstowle
	Hotmail	sweetdog918@hotmail.com
Larry Ezeerf	Vice President	lezeerf
Mike Relwof	Manager	mrelwof

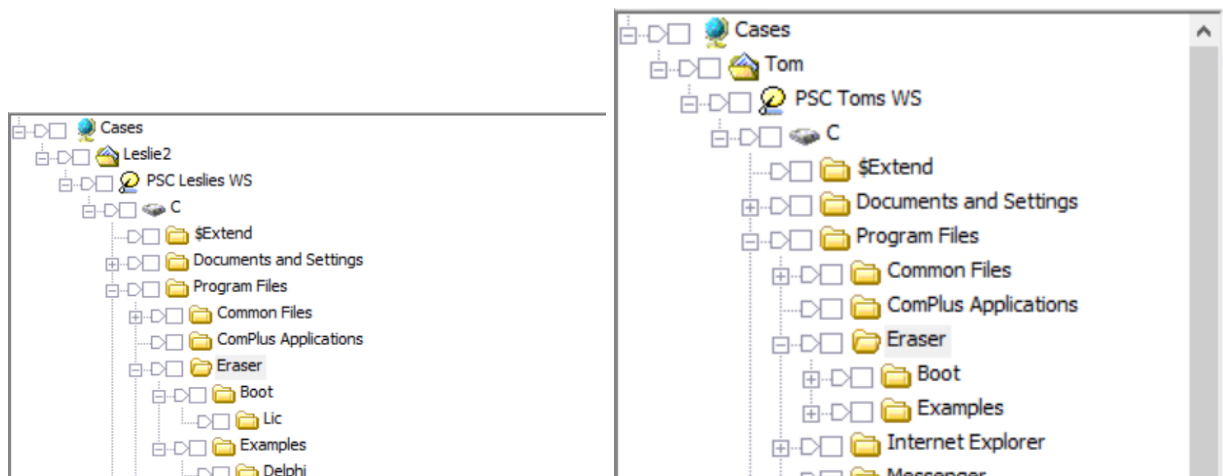
Tools used:

EnCase
Autopsy

Relevant findings:

Notes for viewing this section:

- Each finding is separated by black lines like this: _____
- Each finding is explained in parenthesis and in text color blue like this:
(Tom emails Leslie on September 01, 2004)
- Findings for example, that shows Leslie and Tom's romance + Tom's excitement of getting promoted will be shown like this:
(Evidence 1, Evidence 2)



(Eraser program found in both Leslie and Tom's computers under Program Files. Eraser is a file erasure tool that is anti-forensic as it makes some data irrecoverable)

-----Original Message-----

From: Tom Warner

Sent: Wednesday, September 01, 2004 11:17 AM

To: Leslie Stowle

Subject: Lunch

Do you want to meet for lunch today?

Tom

(Tom emails Leslie on September 01, 2004 11:17 AM, asking her if she wants to meet for lunch)

(Evidence 1)

-----Original Message-----

From: Tom Warner

Sent: Thursday, September 30, 2004 10:55 AM

To: Leslie Stowle

Subject: Vice Pres

Hay Leslie,

Did you see the e-mail about ""MY NEW JOB" Wee I can't wait, god knows I deserve it and I sure can use the x-tra money.

PS. Want to do lunch. Hee Hee

HD

(Tom emails Leslie on September 30, 2004 10:55 AM. Tom is excited about the new role. Tom asks Leslie to have lunch)

(Evidence 1, Evidence 2)

Oh Tom I am so proud of you. I always knew you would promote.

Yes we can do lunch Mr. VP

Leslie Stowle

Fanance Manager

Price Software Company

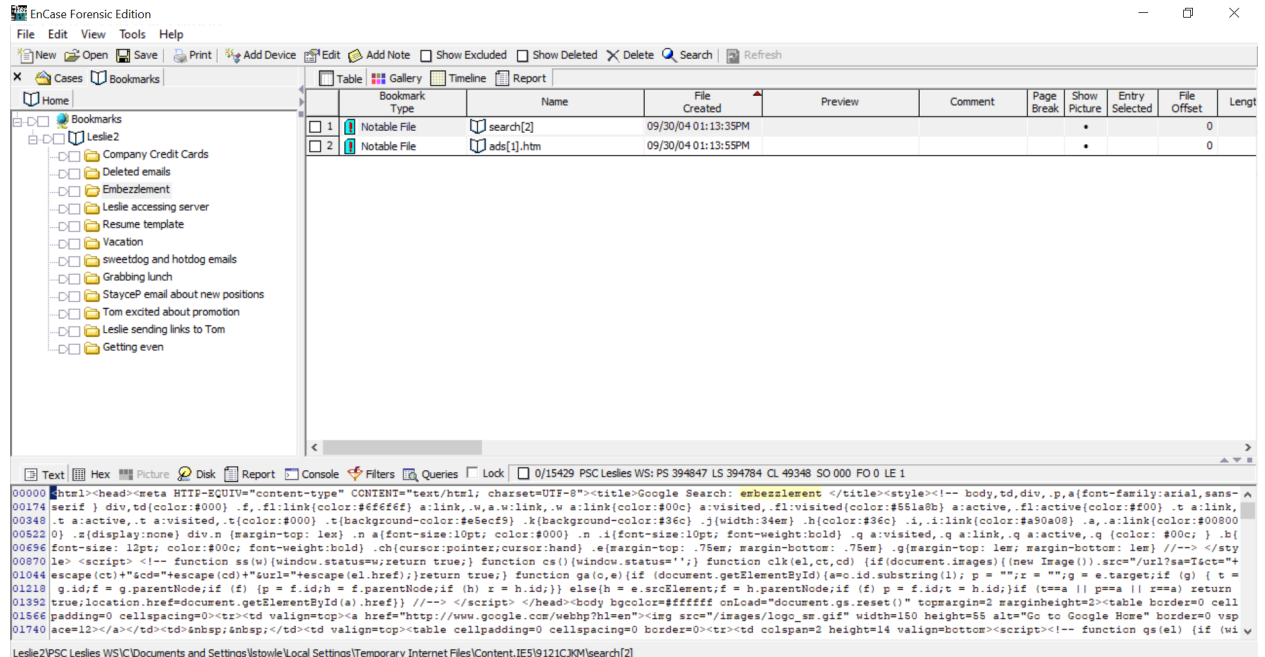
(Leslie responds to Tom's previous email. She is proud of Tom and accepts to have lunch with him)

(Evidence 1)

Sure same place?

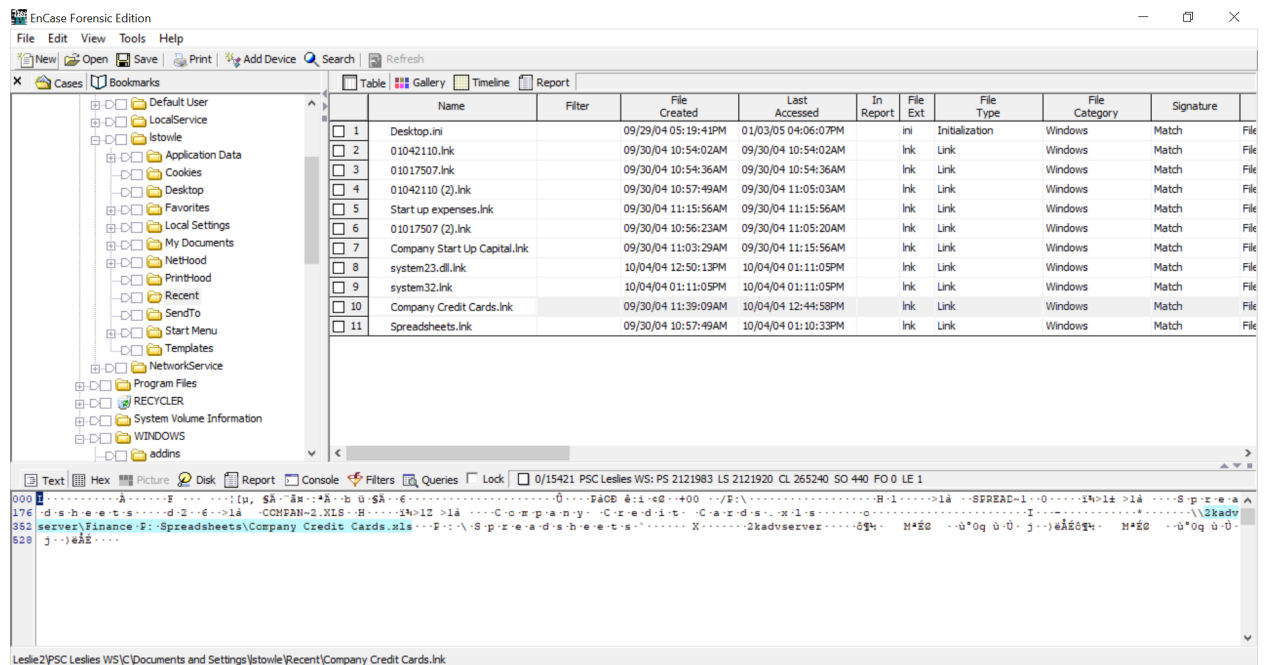
(Tom responds to Leslie)

(Evidence 1)



(Leslie google searches for the term “embezzlement”, she then receives an ad for embezzlement lawyers because of her google search)

(Evidence 12)



(Company Credit Cards.lnk)

(Leslie accessed the Company Credit Cards spreadsheet from the 2kadvserver. The link file is created to document her access. September 30, 2004 11:39AM link file was first created, meaning she first accessed this spreadsheet. Last accessed October 4 2004 12:44PM, meaning she last accessed it 4 days after her first access)

(Evidence 10, Evidence 14)

The screenshot shows the EnCase Forensic Edition interface. On the left is a tree view of the file system. The main pane displays a list of files with columns: Name, File Created, Last Accessed, In Report, File Ext, File Type, File Category, and Signature. Below the list is a hex view of the selected file, showing raw data in hexadecimal and ASCII.

	Name	File Created	Last Accessed	In Report	File Ext	File Type	File Category	Signature
1	Desktop.ini	09/29/04 05:19:41PM	01/03/05 04:06:07PM		ini	Initialization	Windows	Match
2	01042110.lnk	09/30/04 10:54:02AM	09/30/04 10:54:02AM		lnk	Link	Windows	Match
3	01017507.lnk	09/30/04 10:54:36AM	09/30/04 10:54:36AM		lnk	Link	Windows	Match
4	01042110 (2).lnk	09/30/04 10:57:49AM	09/30/04 11:05:03AM		lnk	Link	Windows	Match
5	Start up expenses.lnk	09/30/04 11:15:56AM	09/30/04 11:15:56AM		lnk	Link	Windows	Match
6	01017507 (2).lnk	09/30/04 10:56:23AM	09/30/04 11:05:20AM		lnk	Link	Windows	Match
7	Company Start Up Capital.lnk	09/30/04 11:03:29AM	09/30/04 11:15:56AM		lnk	Link	Windows	Match
8	system23.dll.lnk	10/04/04 12:50:13PM	10/04/04 01:11:05PM		lnk	Link	Windows	Match
9	system32.lnk	10/04/04 01:11:05PM	10/04/04 01:11:05PM		lnk	Link	Windows	Match
10	Company Credit Cards.lnk	09/30/04 11:39:09AM	10/04/04 12:44:58PM		lnk	Link	Windows	Match
11	Spreadsheets.lnk	09/30/04 10:57:49AM	10/04/04 01:10:33PM		lnk	Link	Windows	Match

The hex view at the bottom shows the raw data of the selected file, with columns for Address, Hex, and ASCII. The ASCII column shows the file's metadata, including the name 'system23.dll.lnk' and the path 'C:\WINDOWS\system32\system23.dll.lnk'.

(System23.dll.lnk)

(On October 4, 2004 12:50PM, 6 minutes after Leslie accessed the server, system23.dll.lnk was created. This contains Company Credit Card information. It was found hidden in the system32 folder on Leslie's computer. One important part to notice is this is supposed to be a .xls file since it's an excel spreadsheet, but Leslie manually changed it to a .dll instead, trying to prevent it from being found. She hid this spreadsheet in the system32 folder and made the name system23 to disguise it with the other files.)

(Below are the contents of system23.dll)

Name	Job Title	Card Number	Credit Limit	Current Balance
Stayce Price	President	3789-8745-8702-0005	\$50,000.00	\$2,678.00
Larry Ezeerf	Vice President	3745-0347-0000-2371	\$25,000.00	\$0.00
Tom Warner	Senior Sales Manager	3756-9234-8735-0023	\$25,000.00	\$0.00
Leslie Stowle	Finance Manager	3798-0362-1111-9532	\$5,000.00	\$0.00
Mike Relwof	Development Manager	3769-0023-2234-9116	\$25,000.00	\$1,769.00
George Bushman	Sales Rep.	3756-9800-7689-0548	\$10,000.00	\$12,873.00
Howard Fox	Sales Rep.	3789-4576-0234-1876	\$10,000.00	\$18,347.00
Chuck Cobbhead	Sales Rep.	3798-0455-9812-3948	\$10,000.00	\$13,932.00
			\$160,000.00	\$49,599.00
				\$110,401.00

(Showing Company Credit Card Information. Leslie most likely copied this file from the server, since the system23.dll.lnk file was created 6 minutes after she accessed the server.)

(Evidence 10, Evidence 14)

-----Original Message-----

From: Tom Warner

Sent: Thursday, September 30, 2004 11:07 PM

To: Leslie Stowle





Subject: Hay

You are not going to believe this.

I found a memo that miss Price wrote that says she is not going to promote me to vice president. I will get even. Who does she think she is. I am going home now

(Tom sent Leslie an email on September 30, 2004 11:07 PM, showing his concern about losing his promotion, and his attempt to get even. "I am going home now" means Tom was most likely at work when he sent this message, after hours)

(Evidence 3, Evidence 4, Evidence 9)

	Bookmark Type	File Created	Name
<input type="checkbox"/> 1	 Notable File	10/01/04 12:42:18AM	 Larry Memo.Ink
<input type="checkbox"/> 2	 Notable File	10/01/04 12:43:27AM	 sprice's Documents.Ink

(Tom accessed sprice's documents after hours from the server, a link file was automatically created on October 1, 2004 documenting his access. This link file is created about an hour and 35 minutes after Tom sent Leslie his message about getting even, after hours)

(Evidence 4)

-----Original Message-----

From: Leslie Stowle
Sent: Monday, October 04, 2004 10:11 AM
To: Tom Warner
Subject: RE: Hay

Oh Tom, You don't know that. Are you sure? Lets have lunch and talk about it.

Leslie Stowle

Fanance Manager

Price Software Company

(Leslie sends Tom an email on October 04, 2004 10:11 AM about the memo and getting lunch)

(Evidence 1, Evidence 3, Evidence 9)

I do know it. I saw the memo. I have proof. You don't understand. I have been working here for 7 years. I helped start this company. They owe me so much!

No I can't do lunch today. I have a meeting with someone. Maybe we can do dinner?

(Tom responds to Leslie's previous email, Tom feels the company owes him)

(Evidence 1, Evidence 3, Evidence 9)

-----Original Message-----

From: Leslie Stowle

Sent: Monday, October 04, 2004 10:30 AM

To: Tom Warner

Subject: I like this one

<http://www.expedia.com/pub/agent.dll?qscr=cmhi&itid=&itdx=&itty=&ecid=&from=&tpst=>

Leslie Stowle

Fanance Manager

Price Software Company

(Leslie emails Tom on October 04, 2004 10:30 AM, a vacation link)

(Evidence 1, Evidence 13)

-----Original Message-----

From: Tom Warner

Sent: Monday, October 04, 2004 10:31 AM

To: Leslie Stowle

Subject: RE: I like this one

The link does not work.

(Tom responds to Leslie on October 04, 2004 10:31 AM, saying the vacation link doesn't work)

(Evidence 1, Evidence 13)

<http://www.expedia.com/pub/agent.dll?qscr=cmhi&htid=426160&dsct=&dlvl=&rtmn=&rtmx=&dcty=LAX&dr id1=180074&tair1=KOA&ddpt1=&tdpt1=&drtn1=&trtn1=&cAdt1=2&cmbt=2&mtxt=Sample+4%2Dnight+air %2Fhotel+package+Los+Angeles+to+Big+Island+from+%241070+based+on+travel+11%2F11+through+>

11%2F15%2E+Sample+prices+based+on+double+occupancy+and+vary+by+dates+of+travel%2C+availability%2C+and+departure+city%2E+Shop+for+your+travel+dates+and+departure+city+below%2E&rfr=-33440&&zz=1096910619000&

Leslie Stowle

Fanance Manager

Price Software Company

(Leslie responds back to Tom with a now a working vacation link)

(Evidence 1, Evidence 13)

From: Tom Warner <hotdog918@hotmail.com>
To: cmelonis@saspahsoftware.com
Subject: This is a good one!
Sent: Wednesday, October 27, 2004 7:48 AM



You should like this one. We have a meeting to I should be able to let you know what we are doing next.

Cheers,

TW

(Tom emails Chris Melonis on October 27, 2004 7:48 AM, VP of Saspah Software, PSC's competitor, mentioning their meeting)

(Evidence 5)

From : <postmaster@mail.hotmail.com>  [Go to previous message](#) |  [Go to next message](#)
Sent : Wednesday, October 27, 2004 7:49 AM
To : hotdog918@hotmail.com
Subject : Delivery Status Notification (Failure)

Hotmail has permanently blocked the following potentially unsafe attachment(s): [realarcade.exe \(0.27 MB\)](#) [More Info...](#)


This is an automatically generated Delivery Status Notification.

Delivery to the following recipients failed.

cmelonis@saspahsoftware.com

(Tom's previous email to Chris Melonis did not go through, because Tom attached an executable file called realarcade.exe, this postmaster is an automatic response notifying Tom that the message did not go through)

(Evidence 5)

From : Tom Warner <hotdog918@hotmail.com>  [Go to previous message](#)
Sent : Wednesday, October 27, 2004 2:59 PM
To : sweetdog918@hotmail.com
Subject : RE: I did it!

I sent another file today. A few more and we can get out of here.

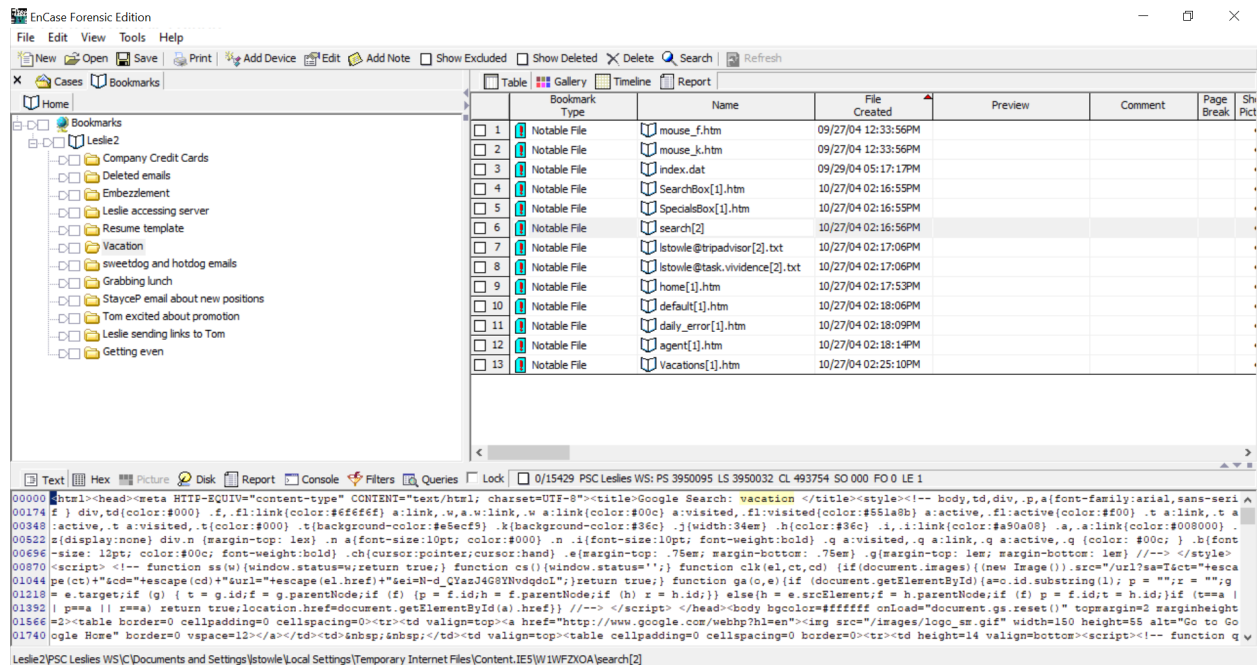
How's the vacation plan coming?

From: "Leslie Stowle" <sweetdog918@hotmail.com>
To: hotdog918@hotmail.com
Subject: I did it!
Date: Wed, 29 Sep 2004 21:56:00 +0000

Hay Tom. I set up my Hotmail account like you said to. This is cool.

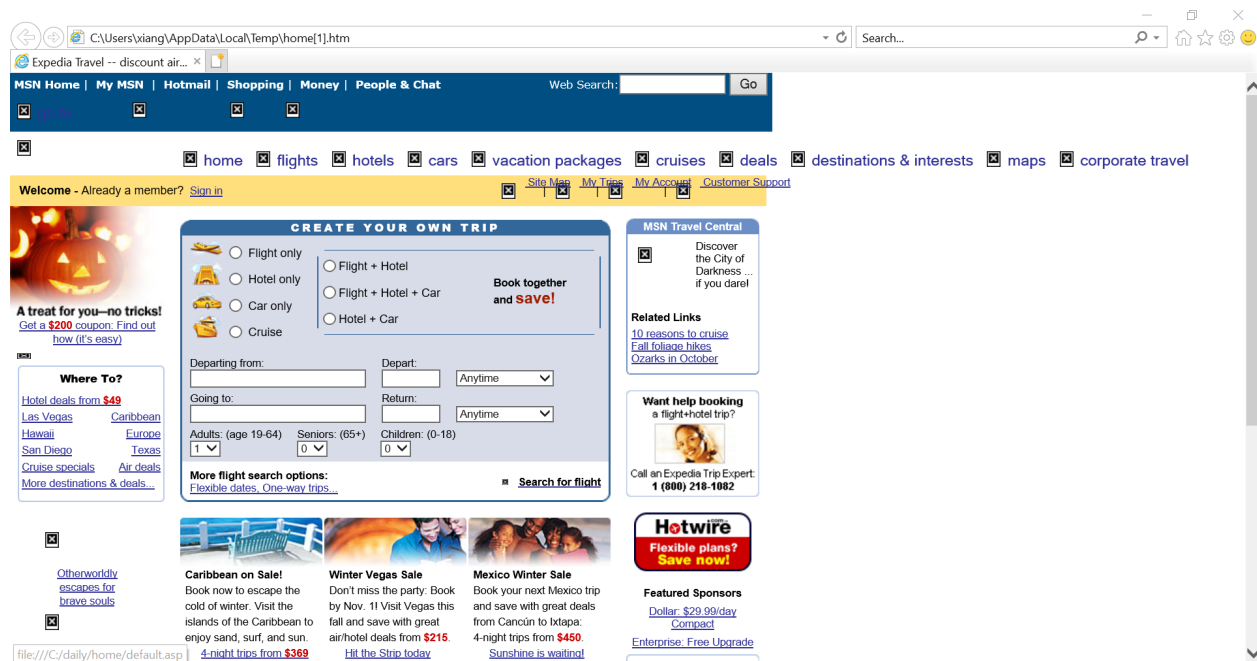
(Tom emails Leslie on October 27, 2004, 2:59 PM. "I sent another file today" most likely refers to realarcade.exe, the attachment that didn't go through. Tom mentions about vacation plans with Leslie)

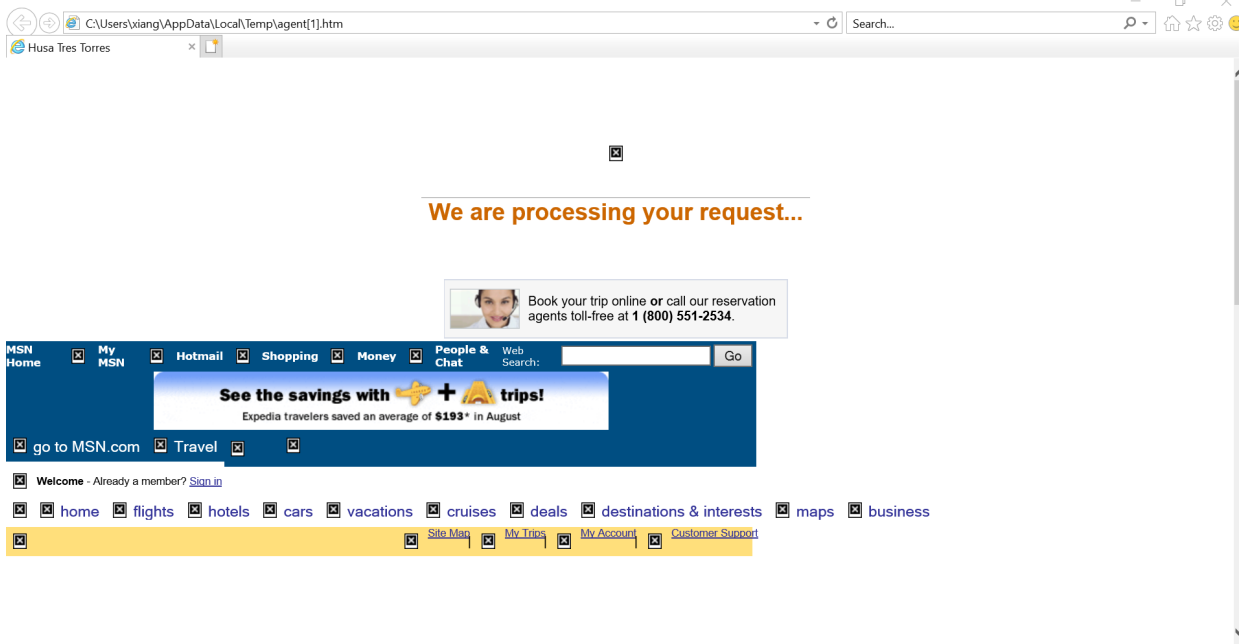
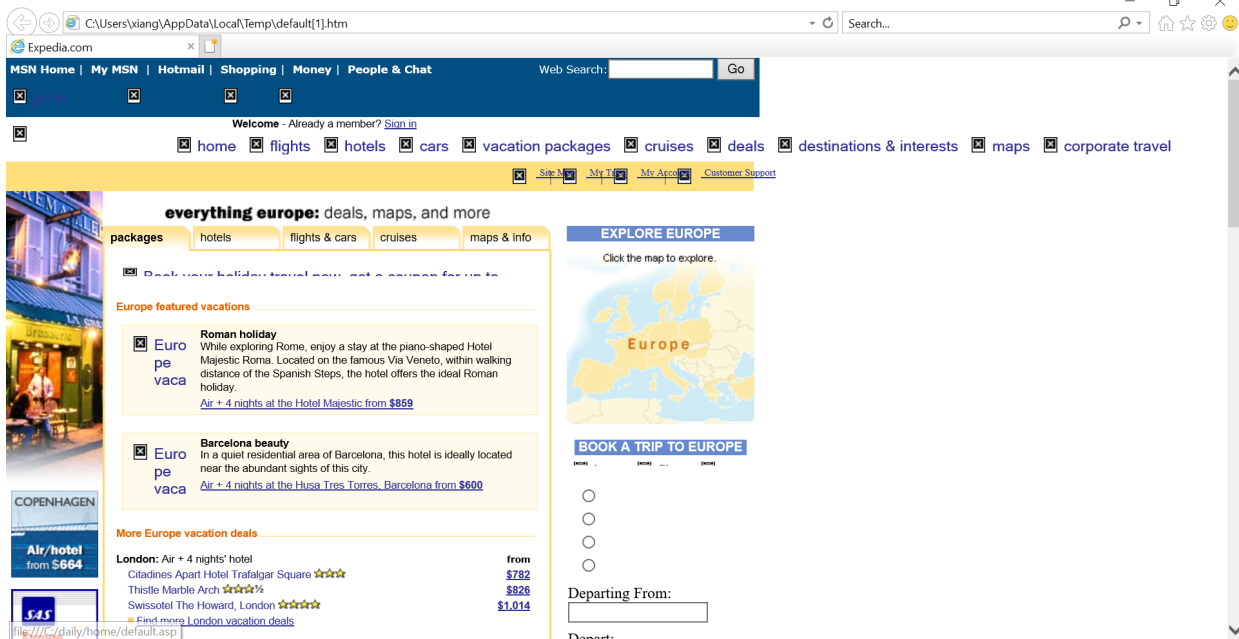
(Evidence 1, Evidence 5)

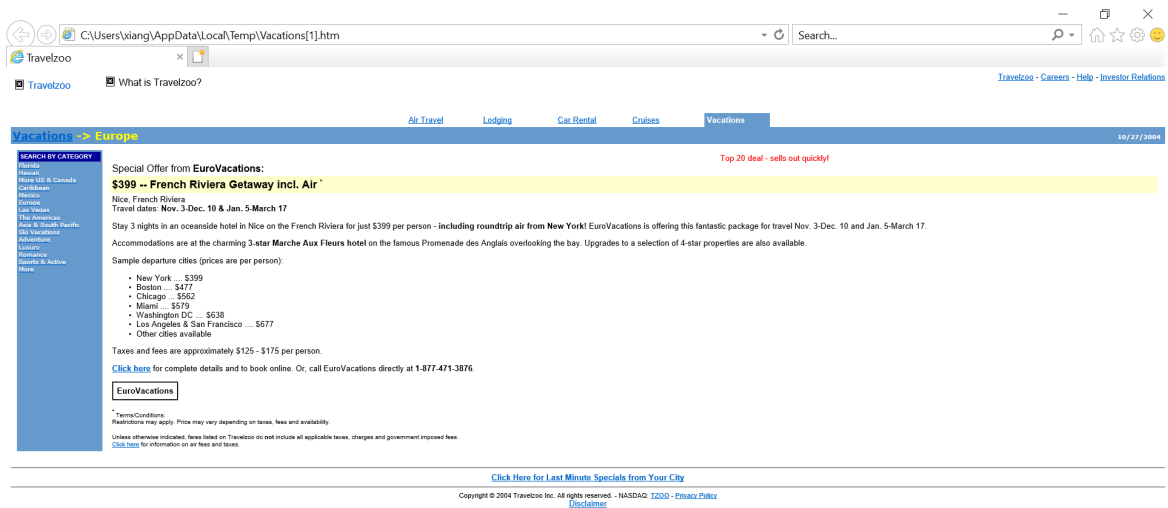
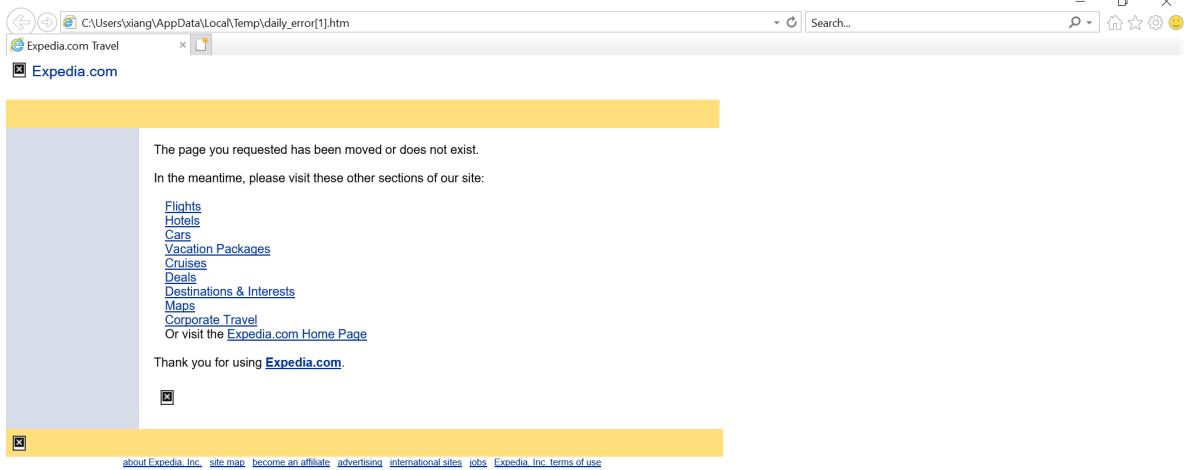


(Leslie google searches for the term “vacation” on October 27, 2004 2:16 PM. She proceeds to browse through five different websites, websites are show below)

(Evidence 8)







END OF REPORT