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COURSE:INT403 LAB 3

This lab report summarises my investigation and findings. The exercises were executed on the assigned Windows agent (CrownFitSMe, 192.168.100.146) and supporting lab hosts. Ninety percent of the evidence collected consists of screenshots capturing process creation, scheduled tasks, and file artifacts, ensuring a verifiable timeline. Logs and alerts from the Wazuh manager complement the visual records

```
PS C:\Users> cd HP
PS C:\Users\HP> cd SensitiveFiles
PS C:\Users\HP\SensitiveFiles> ls

    Directory: C:\Users\HP\SensitiveFiles

Mode                LastWriteTime         Length Name
----                -
-a----          10/17/2025   11:39 PM             0 cmd.exe
-a----          10/19/2025    2:52 PM            13 gapsearch.txt
-a----          10/19/2025    1:54 PM             0 payload.exe
-a----          10/17/2025   11:41 PM            64 secret_plan.txt

PS C:\Users\HP\SensitiveFiles>
```

```

PS C:\> cd Users
PS C:\Users> cd HP
PS C:\Users\HP> cd SensitiveFiles
PS C:\Users\HP\SensitiveFiles> ls

    Directory: C:\Users\HP\SensitiveFiles

Mode                LastWriteTime         Length Name
----                -
-a----            10/17/2025   11:39 PM             0 cmd.exe
-a----            10/19/2025    2:52 PM             13 gapsearch.txt
-a----            10/19/2025    1:54 PM             0 payload.exe
-a----            10/17/2025   11:41 PM             64 secret_plan.txt
-a----            10/28/2025    3:31 PM          493362 sensitivefiles.zip

PS C:\Users\HP\SensitiveFiles>

```

Simulate Lateral Movement (from your Linux/Web Server VM toward CrownFistMe)

I ran this command for easy access to windows:

`sudo apt update && sudo apt install -y smbclient`

i simulated login into windows agent using

`smbclient \\\\192.168.100.146\\ADMIN$ -U Administrator`

```

root@icdfa-server:~# smbclient \\\\192.168.100.146\\ADMIN$ -U Administrator
Password for [WORKGROUP\Administrator]:
session setup failed: NT_STATUS_ACCOUNT_DISABLED
root@icdfa-server:~#
root@icdfa-server:~#
root@icdfa-server:~# # Try to connect to ADMIN$ share (will prompt for password;
use wrong password to create failed attempts)
root@icdfa-server:~# smbclient \\\\192.168.100.146\\ADMIN$ -U Administrator
Password for [WORKGROUP\Administrator]:
session setup failed: NT_STATUS_LOGON_FAILURE
root@icdfa-server:~#
root@icdfa-server:~# smbclient \\\\192.168.100.146\\ADMIN$ -U Administrator
Password for [WORKGROUP\Administrator]:
session setup failed: NT_STATUS_LOGON_FAILURE
root@icdfa-server:~#

```

I also Simulated Reconnaissance & Weaponization on using this command:

Please note that 192.168.100.146 is my windows agent 1p.

Suspicious operation: carrying out nmap scan on windows agent

```
root@icdfa-server:~#  
root@icdfa-server:~# nmap -sS -p 1-2000 192.168.100.146  
Starting Nmap 7.80 ( https://nmap.org ) at 2025-10-28 14:51 UTC  
Nmap scan report for CrownFitsMe (192.168.100.146)  
Host is up (0.00040s latency).  
Not shown: 1994 closed ports  
PORT      STATE SERVICE  
21/tcp    open  ftp  
80/tcp    open  http  
135/tcp   open  msrpc  
139/tcp   open  netbios-ssn  
445/tcp   open  microsoft-ds  
1234/tcp  open  hotline  
MAC Address: F8:16:54:DF:34:B4 (Intel Corporate)  
  
Nmap done: 1 IP address (1 host up) scanned in 0.84 seconds  
root@icdfa-server:~#
```

Hunting & Wazuh Dashboard Queries (use these in the Wazuh Dashboard search bar)

As it can be seen all the simulated mitre attack are captured in the wazuh dashboard

← → ↻ [https://192.168.100.62/app/mitre-attack#/overview/?tab=mitre&tabView=events&agentId=003&a=\(filter:](https://192.168.100.62/app/mitre-attack#/overview/?tab=mitre&tabView=events&agentId=003&a=(filter:) ⌵ ⌵ ⌵

MITRE ATT&CK CrownFitsMe a ⓘ

319 hits

Oct 27, 2025 @ 15:14:02.447 - Oct 28, 2025 @ 15:14:02.447

Export Formatted 776 available fields Columns Density 1 fields sorted Full screen

timestamp	agent.name	rule.mitre.id	rule.mitre.tactic	rule.descri...	rule.level	rule.id
Oct 28, 2025 @ 15:13:20.034	CrownFitsMe	T1087 T1059.003	Discovery, Execution	Suspicious Wi...	3	92032
Oct 28, 2025 @ 15:13:20.030	CrownFitsMe	T1087 T1059.003	Discovery, Execution	Suspicious Wi...	3	92032
Oct 28, 2025 @ 15:13:20.027	CrownFitsMe	T1059.003	Execution	Powershell pr...	4	92004
Oct 28, 2025 @ 15:11:38.871	CrownFitsMe	T1059.003	Execution	Windows com...	4	92052
Oct 28, 2025 @ 15:10:07.754	CrownFitsMe	T1078	Defense Evasion, Persistence, Privileg...	Windows Log...	3	60106
Oct 28, 2025 @ 15:06:39.571	CrownFitsMe	T1078	Defense Evasion, Persistence, Privileg...	Windows Log...	3	60106
Oct 28, 2025 @ 15:01:23.175	CrownFitsMe	T1059.003	Execution	Windows com...	4	92052
Oct 28, 2025 @ 15:01:10.134	CrownFitsMe	T1059.003	Execution	Windows com...	4	92052
Oct 28, 2025 @ 15:01:04.648	CrownFitsMe	T1059.003	Execution	Windows com...	4	92052
Oct 28, 2025 @ 15:00:58.297	CrownFitsMe	T1059.003	Execution	Windows com...	4	92052
Oct 28, 2025 @ 15:00:54.504	CrownFitsMe	T1059.003	Execution	Windows com...	4	92052
Oct 28, 2025 @ 15:00:50.156	CrownFitsMe	T1087 T1059.003	Discovery, Execution	Suspicious Wi...	3	92032
Oct 28, 2025 @ 15:00:50.128	CrownFitsMe	T1087 T1059.003	Discovery, Execution	Suspicious Wi...	3	92032
Oct 28, 2025 @ 15:00:50.124	CrownFitsMe	T1059.003	Execution	Powershell pr...	4	92004

The sysmon i installed played great role in capturing all the events

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† data.win.system.version	5
† decoder.name	windows_eventchannel
† id	1761664400.2415829
† input.type	log
† location	EventChannel
† manager.name	icdfa-server
† rule.description	Suspicious Windows cmd shell execution
# rule.firedtimes	4
† rule.groups	sysmon, sysmon_eid1_detections, windows
† rule.id	92032
# rule.level	3
🕒 rule.mail	false
† rule.mitre.id	T1087 T1059.003
† rule.mitre.tactic	Discovery, Execution
† rule.mitre.technique	Account Discovery, Windows Command Shell
📅 timestamp	Oct 28, 2025 @ 15:13:20.034

Activate Windows

Document Details

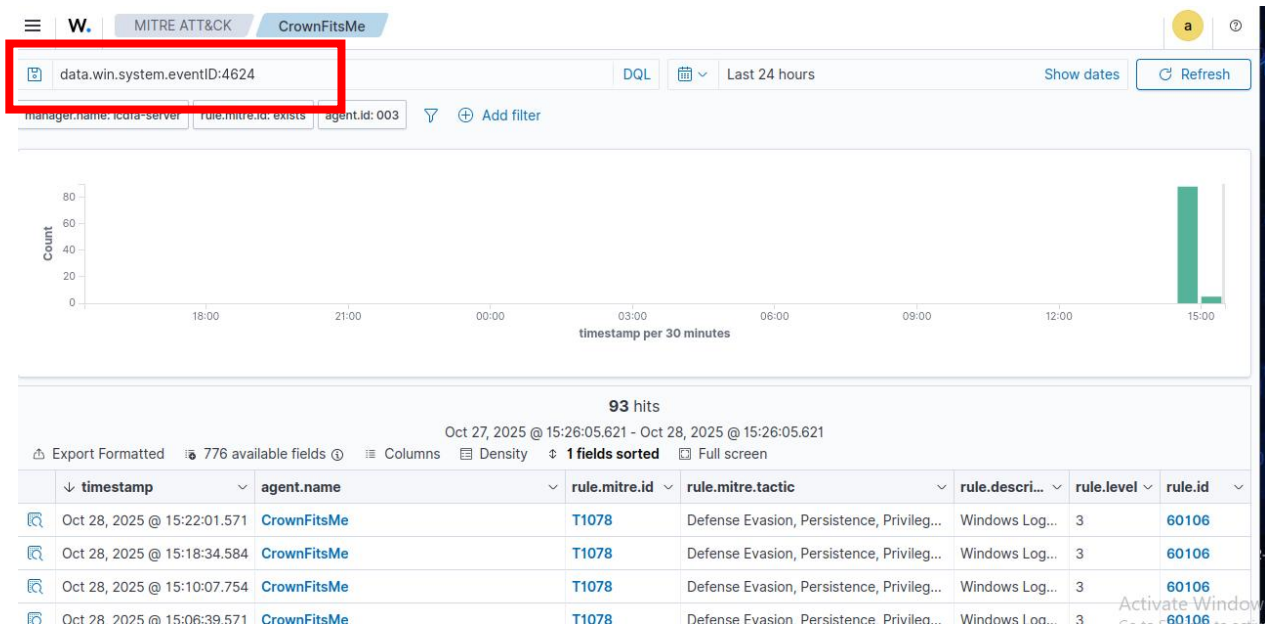
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<code>data.win.eventdata.description</code>	Windows Command Processor
<code>data.win.eventdata.fileVersion</code>	10.0.22000.1 (WinBuild.160101.0800)
<code>data.win.eventdata.hashes</code>	SHA256=F6C9532E1F4B66BE96F0F56BD7C3A3C1997EA8066B91BFCC984E41F072C347BA
<code>data.win.eventdata.image</code>	C:\\Windows\\System32\\cmd.exe
<code>data.win.eventdata.integrityLevel</code>	System
<code>data.win.eventdata.logonGuid</code>	{1f8fa574-7955-6900-e703-000000000000}
<code>data.win.eventdata.logonId</code>	0x3e7
<code>data.win.eventdata.originalFileName</code>	Cmd.Exe
<code>data.win.eventdata.parentCommandLine</code>	\"C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.EXE\" -Command \"Start-Process -WindowStyle Hidden task.bat\"
<code>data.win.eventdata.parentImage</code>	C:\\Windows\\System32\\WindowsPowerShell\\v1.0\\powershell.exe
<code>data.win.eventdata.parentProcessGuid</code>	{1f8fa574-dd87-6900-9d46-000000008001}

Activate Windows

Defence evasion captured by wazuh using wazuh filter



This wazuh filter was able to capture the following

W. Threat Hunting CrownFitsMe

Dashboard Events

agent.name:"CrownFitsMe" AND data.win.system.eventID:1 DQL Last 24 hours

manager.name: lcdfa-server agent.id: 003 Add filter

It captured 218 suspicious execution as seen below

W.	Threat Hunting	CrownFitsMe	a	?
218 hits				
Oct 27, 2025 @ 15:36:56.634 - Oct 28, 2025 @ 15:36:56.634				
Export Formatted 776 available fields Columns Density 1 fields sorted Full screen				
timestamp	agent.name	rule.description	rule.level	rule.id
Oct 28, 2025 @ 15:31:53.604	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:21:46.807	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:13:20.034	CrownFitsMe	Suspicious Windows cmd shell execution	3	92032
Oct 28, 2025 @ 15:13:20.030	CrownFitsMe	Suspicious Windows cmd shell execution	3	92032
Oct 28, 2025 @ 15:13:20.027	CrownFitsMe	Powershell process spawned Windows command shell instance	4	92004
Oct 28, 2025 @ 15:11:38.871	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:01:23.175	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:01:10.134	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:01:04.648	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:00:58.297	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:00:54.504	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:00:50.156	CrownFitsMe	Suspicious Windows cmd shell execution	3	92032
Oct 28, 2025 @ 15:00:50.128	CrownFitsMe	Suspicious Windows cmd shell execution	3	92032

Threat hunting events captured on wazuh

W.	Threat Hunting	CrownFitsMe	a	?
517 hits				
Oct 27, 2025 @ 15:44:54.314 - Oct 28, 2025 @ 15:44:54.318				
Export Formatted 776 available fields Columns Density 1 fields sorted Full screen				
timestamp	agent.name	rule.description	rule.level	rule.id
Oct 28, 2025 @ 15:42:00.516	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:38:31.298	CrownFitsMe	Windows Logon Success	3	60106
Oct 28, 2025 @ 15:38:00.696	CrownFitsMe	Windows Logon Success	3	60106
Oct 28, 2025 @ 15:31:53.604	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:28:22.894	CrownFitsMe	Windows Logon Success	3	60106
Oct 28, 2025 @ 15:27:14.847	CrownFitsMe	Windows Logon Success	3	60106
Oct 28, 2025 @ 15:22:01.571	CrownFitsMe	Windows Logon Success	3	60106
Oct 28, 2025 @ 15:21:46.807	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:18:34.584	CrownFitsMe	Windows Logon Success	3	60106
Oct 28, 2025 @ 15:13:20.034	CrownFitsMe	Suspicious Windows cmd shell execution	3	92032
Oct 28, 2025 @ 15:13:20.030	CrownFitsMe	Suspicious Windows cmd shell execution	3	92032
Oct 28, 2025 @ 15:13:20.027	CrownFitsMe	Powershell process spawned Windows command shell instance	4	92004
Oct 28, 2025 @ 15:11:38.871	CrownFitsMe	Windows command prompt started by an abnormal process	4	92052
Oct 28, 2025 @ 15:10:07.754	CrownFitsMe	Windows Logon Success	3	60106