

0xl4ugh2024

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Posted Feb 10, 2024 • Updated Feb 10, 2024



Recently Updated

Contents

1 min read

GO ADVANCED

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2.53 KB 20 hours ago

Family labels leopard

① Detected

Q Search...

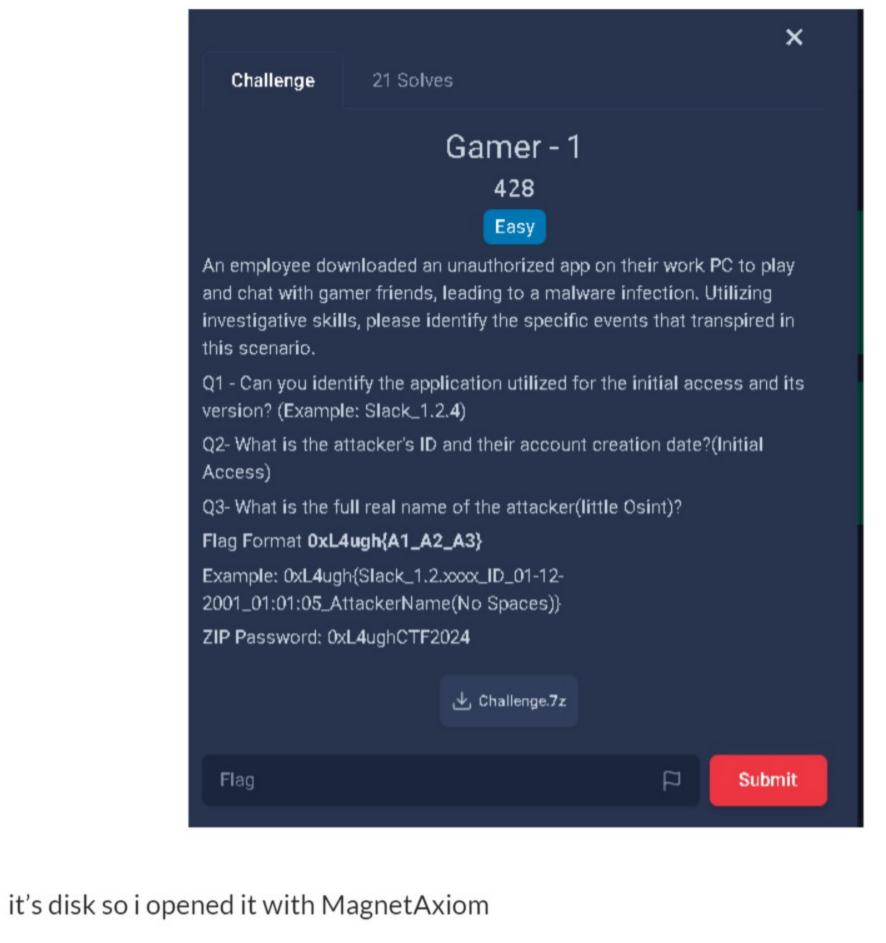
0xl4ugh2024 UofTCTF

Trending Tags task schedule backdoor crypto firmware discord disk trevorc2 network

Gamer - 1 it's disk so i opened it with MagnetA... in the challenge he said that An emp... so we look we found that there is su...

I participated in the 0xl4ugh2024 I solved all forensics challenge, and this is my write-up for most forensics challenges Gamer - 1

By Abdelrhman Mohamed



in the challenge he said that An employee downloaded an unauthorized app so we will look for browser history

—\$ find . −name "appmanifest*"

URL, IP address, domain, or file hash

16

Community Score

GData

Popular threat label (1) trojan.leopard

and then i opened 50.json file

e/TempState/Downloads/appmanifest.rar.4rkixct.partial

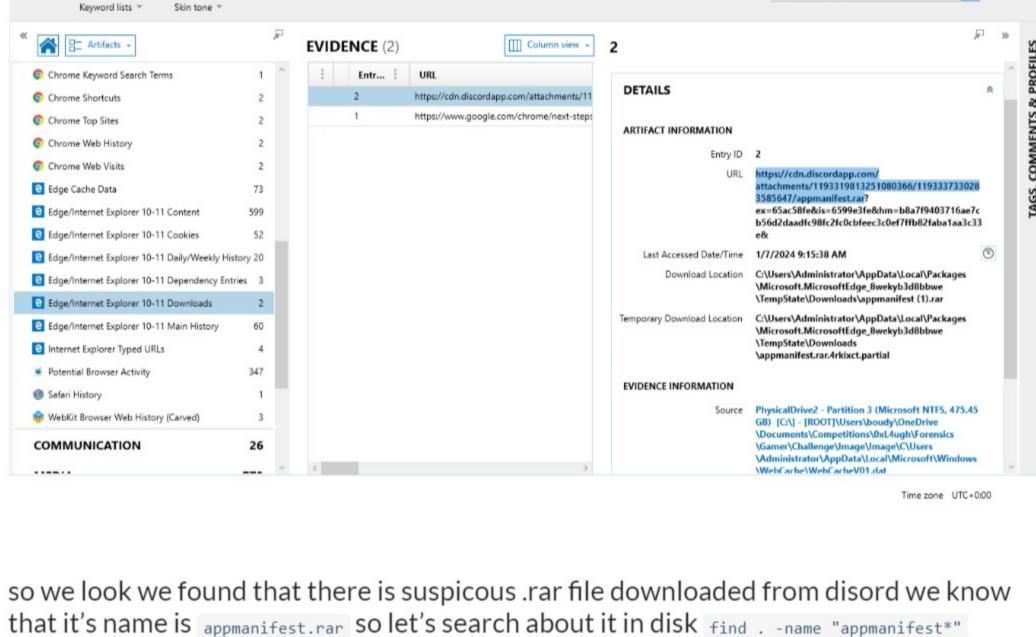
e29f365335adeea575ae1e592bd50313c38bd89bf9ff6b7f7f06e6377b0661c3

Join the VT Community and enjoy additional community insights and crowdsourced detections, plus an API key to <u>automate checks.</u>

Heur.BZC.NTM.Leopard.1.16A1509E

zip exploit cve-2023-38B31 checks-user-input detect-debug-environment long-sleeps

Magnet AXIOM Examine v5.4.0.26185 - gamer Evidence * Artifacts * Content types * Date and time * Tags and comments *



e/AC/#!001/MicrosoftEdge/Cache/APML7RLT/appmanifest[1].rar /C/Users/Administrator/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbw e/TempState/Downloads/appmanifest (1).rar ./C/Users/Administrator/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbw

/C/Users/Administrator/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbw

/C/Users/Administrator/AppData/Local/Temp/Rar\$DIa7924.43921/appmanifest_547896.acf ./C/Users/Administrator/AppData/Local/Temp/Rar\$DIa7924.43921/appmanifest_547896.acf .cmd /C/Users/Administrator/AppData/Roaming/Microsoft/Windows/Recent/appmanifest (1).ra r.lnk so we found it let's calculate it's hash sha256sum appmanifest (1).rar we found e29f365335adeea575ae1e592bd50313c38bd89bf9ff6b7f7f06e6377b0661c3 now upload it to virus total to see it's have malware or not # 🕒 🝙 🔲 😘 https://www.virustotal.com/gui/file/e29f365335adeea575ae1e592bd50313c38bd89bf9ff6b7f7f06e6377b... 🗔 🔍 🖒 | 💞 🥀 🥫 🔘 🔘 🗘 🗊 🗖 🗖 🖻 🖎

Security vendors' analysis (i) Do you want to automate checks? () Heur.BZC.NTM.Leopard.1.16A1509E Heur.BZC.NTM.Leopard.1.16A1509E [many] Heur.BZC.NTM.Leopard.1.16A1509E (B) Heur.BZC.NTM.Leopard.1.16A1509E

so we know know that it's malicious and we got cve of it cve-2023-38831 now we know that

now we need to analyze discord cache file this link helped me so i downloaded this tool

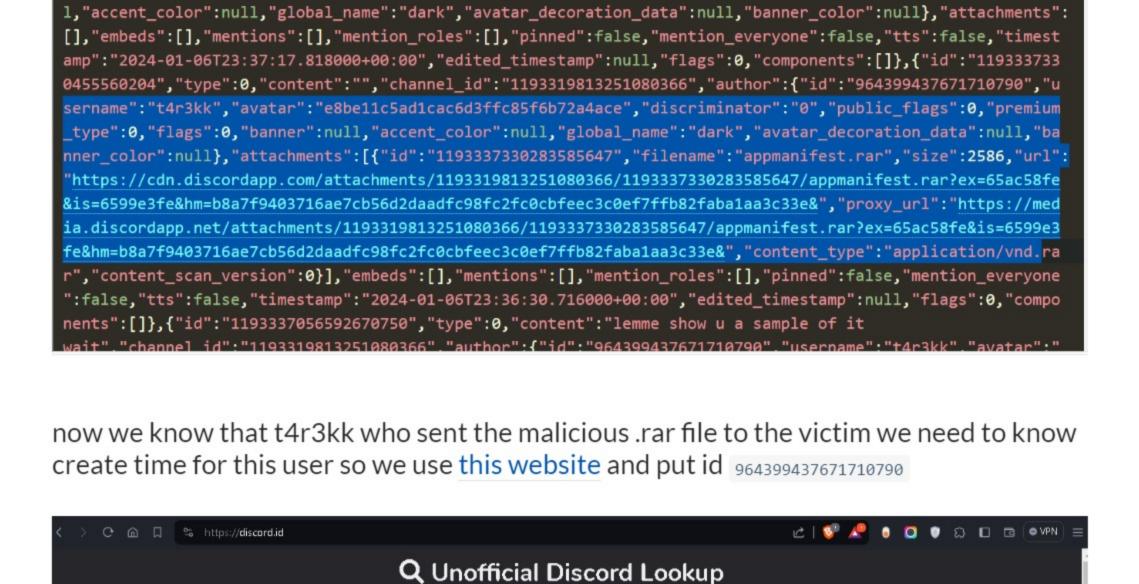
and i opened cache file in this program and extract all files by click ctr a and then press f4

this is attacker sent it in discord and it have malware we will analyze it later

Google

al_name": "anani", "avatar_decoration_data": null, "banner_color": null}, "attachments": [], "embeds": [], "mentions": [], "mention_roles":[], "pinned":false, "mention_everyone":false, "tts":false, "timestamp": "2024-01-06T23:38:04. 207000+00:00", "edited_timestamp":null, "flags":0, "components":[]}, {"id":"1193337528015654932", "type":0, "cont ent": "wasn't able to upload the file directly, so i compressed for

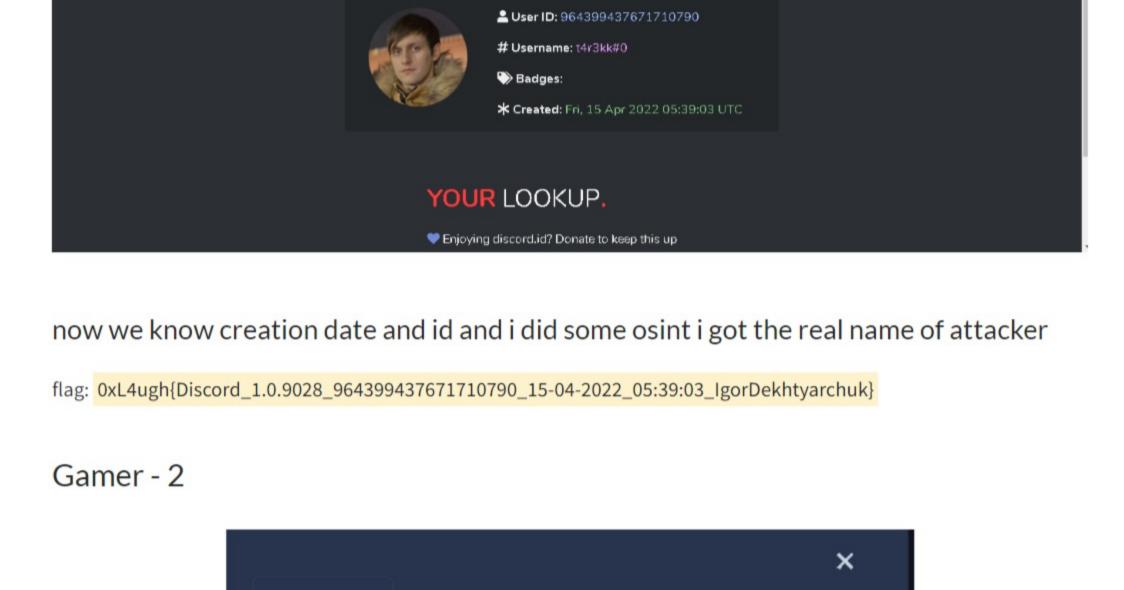
u", "channel_id": "1193319813251080366", "author": {"id": "964399437671710790", "username": "t4r3kk", "avatar": "e8b e11c5ad1cac6d3ffc85f6b72a4ace", "discriminator": "0", "public_flags":0, "premium_type":0, "flags":0, "banner":nul



964399437671710790

This site is not affiliated with Discord.

User ID / Any ID: Learn more



Gamer - 2

494

Medium

Q1 - Could you share the SHA256 hash of the harmful file and tell me how

much time passed between receiving it initially and running the associated

Challenge

Same As Gamer 1

File Tools Process Help

Artifacts -

REFINED RESULTS

Cloud Services URLs

G Google Searches

Identifiers - Device

Identifiers - People

Parsed Search Queries

Passwords and Tokens

Rebuilt Webpages

Social Media URLs

Web Chat URLs

Edge Cache Data

e Edge/Internet Explorer 10-11 Content

e Edge/Internet Explorer 10-11 Cookies

Edge/Internet Explorer 10-11 Downloads

Edge/Internet Explorer 10-11 Main History

Internet Explorer Typed URLs

Potential Browser Activity

Safari History

Gamer - 4

file

cmd

.lnk

File Machine View Input Devices Help

TIMP>net localgroup administrators Zamoksha /add tem error 5 has occurred.

help is available by typing NET HELPHSG 2221.

Edge/Internet Explorer 10-11 Daily/Weekly History 20

Edge/Internet Explorer 10-11 Dependency Entries 3

Rebuilt Desktops - Windows

Locally Accessed Files and Folders

Keyword lists *

FILTERS

7 Solves

script? Q2 - What is the CVE number that the attacker took advantage of? Format: 0xL4ugh{SH256_HH:MM:SS_CVE-XXXX-XXXXXX} Flag Submit now here we know sha256 of file and we know the cve we got in first question so now we need to know when this is .rar is installed in the system this is the first time the file is downloaded to system Magnet AXIOM Examine v5.4.0.26185 - gamer Artifacts Tontent types Date and time Tags and comments Partial results * Type a search term. EVIDENCE (24) Column view Discord 154 URL Site... PhysicalDrive2 INTEL HBRPEKNX0202AH (476.94 GB) https://cdn.discordapp.com/at 12

:Host: cdn.discordapp.com

https://cdn.discordapp.com/at

https://cdn.discordapp.com/at

https://cdn.discordapp.com/atil

https://discordapp.com/assets.

https://cdn.discordapp.com/at/

https://cdn.discordapp.com/at

https://cdn.discordapp.com/at

https://cdn.discordapp.com/

Discord

11

73

599

52

347

Challenge

Same As Gamer - 1

DETAILS

ARTIFACT INFORMATION

Site Name Discord

URL https://cdn.discordapp.com/

Accessed Date/Time 1/7/2024 9:15:40 AM

PhysicalDrive2 - Partition 3 (Microsoft NTFS, 475.45 GB) [C:\]

\Administrator\AppData\Local\Microsoft\Windows\WebCache

[ROOT]\Users\boudy\OneDrive\Documents\Competition \0xL4ugh\Forensics\Gamer\Challenge\Image\Image\C\Users

Access Count 1

EVIDENCE INFORMATION

Recovery method Carving

Location File Offset 474634

Evidence number PhysicalDrive2 INTEL HBRPEKNX0202AH (476.94 GB)

×

Deleted source

Date/Time 1/6/2024 11:36:30 PM

Original artifact Edge Cache Data

c2fc0cbfeec3c0ef7ffb82faba1aa3c33e&

attachments/1193319813251080366/1193337330283585647/

ex=65ac58fe&is=6599e3fe&hm=b8a7f9403716ae7cb56d2daadfc98f

GO ADVANCED

(1)

(3)

Time zone UTC+0:00

PhysicalDrive2 - Partition 3 (Microsoft NTFS, 475.45 GB) [C:\] - [ROOT] **WEB RELATED** 1,346 \Users\boudy\OneDrive\Documents\Competitions\0xL4ugh\Fore \Gamer\Challenge\Image\Image\C\Users\Administrator\AppData\Local Chrome Autofill Discord https://cdn.discordapp.com/at Chrome Cache Records Discord :Host: cdn.discordapp.com Chrome Cookies https://cdn.discordapp.com/at Discord Location Table: Container_17 (UrlHash: 374953300582434385) Chrome Downloads Discord https://cdn.discordapp.com/at Time zone UTC+0:00 and the first time it executed Magnet AXIOM Examine v5.4.0.26185 - gamer File Tools Process Help Partial results 1 GO ADVANCED Type a search term. - Artifacts EVIDENCE (60) file:///C:/Users/Administrator/AppData/Local/... Entr... PhysicalDrive2 INTEL HBRPEKNX0202AH (476.94 GB) Chrome Downloads https://www.google.com/chrome/next-: Chrome Extensions https://www.google.com/chrome/next-: DETAILS Chrome Keyword Search Terms https://www.google.com/chrome/next-: Chrome Shortcuts https://www.google.com/chrome/next-s ARTIFACT INFORMATION https://notifier.win-rar.com/?language= Chrome Top Sites URL file:///C:/Users/Administrator/AppData/Local/Packages/ https://notifier.win-rar.com/?language= Chrome Web History Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/ https://cdn.discordapp.com/attachment Downloads/appmanifest (1).rar Chrome Web Visits

https://cdn.discordapp.com/attachment

https://cdn.discordapp.com/attachment

https://cdn.discordapp.com/attachment

https://cdn.discordapp.com/attachment

https://cdn.discordapp.com/attachment

file:///C:/Users/Administrator/AppData/

file:///C:/Users/Administrator/AppData/

https://cdn.discordapp.com/

https://cdn.discordapp.com/

about:blank

about:blank

17 Solves

now date_of_execution - date_of_downloading flag: 0xL4ugh{e29f365335adeea575ae1e592bd50313c38bd89bf9ff6b7f7f06e6377b0661c3_09:39:44_CVE-2023-38831}

The attacker created a scheduled task. Could you please provide the name of the task and the action command associated with it? FlagFormat: 0xL4ugh{SchudledTaskName_Command}

Gamer - 4

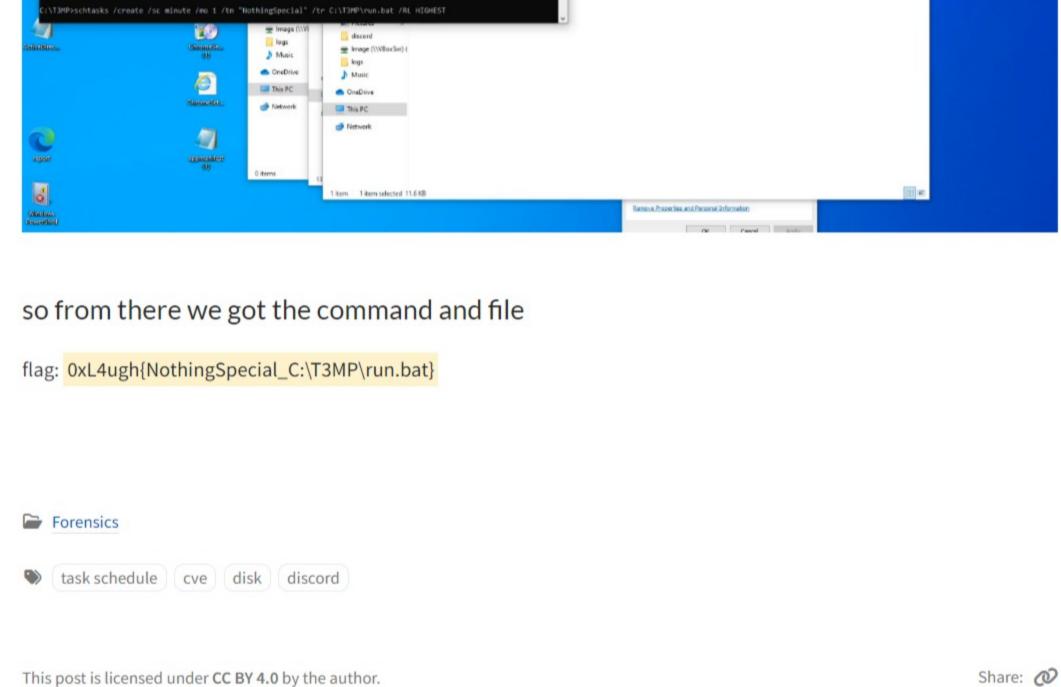
454

Medium

Submit Flag ok when we searched about malware with find . -name "appmanifest*" we found suspicious -\$ find . −name "appmanifest*" /C/Users/Administrator/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbw /AC/#!001/MicrosoftEdge/Cache/APML7RLT/appmanifest[1].rar /C/Users/Administrator/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbw TempState/Downloads/appmanifest (1).rar /C/Users/Administrator/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbw /TempState/Downloads/appmanifest.rar.4rkixct.partial /C/Users/Administrator/AppData/Local/Temp/Rar\$DIa7924.43921/appmanifest_547896.acf /C/Users/Administrator/AppData/Local/Temp/Rar\$DIa7924.43921/appmanifest_547896.acf /C/Users/Administrator/AppData/Roaming/Microsoft/Windows/Recent/appmanifest (1).ra

mage (\\VBox5vr) (

so i run this script in the virtual machine windows



Jan 15, 2024 **UofTCTF**

I participated in the UofTCTF 2024 I

solved all forensics challenge, and th...

Further Reading

OLDER **UofTCTF**

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NEWER

Using the Chirpy theme for Jekyll.