black hat®
BRIEFINGS

AUGUST 6-7, 2025
MANDALAY BAY / LAS VEGAS

Hacker Dropping Mid-Heist Selfies

LLM Identifies Information Stealer Infection Vectors and Extracts IoC

Estelle Ruellan, Threat Intelligence Researcher
Olivier Bilodeau, Principal Cybersecurity Researcher

Who Are We?

Olivier Bilodeau

- 15 years cybersecurity industry experience
- Principal Cybersecurity Researcher at Flare
- Former GoSecure, ESET. Founder MontréHack
- NorthSec's President
- Serial presenter: DEFCON, BlackHat, SecTor, Botconf, CERT-EU, AtlSecCon

Estelle Ruellan

- Cyber Threat Intelligence Researcher
- Mathematics and Criminology Background
- Former student athlete
- Loves data science, shapes and colors
- Baby serial presenter: NorthSec, ShmooCon, Botconf, Hack.lu, eCrime APWG, EUROCRIME

Honorable mentions:

Agenda

1. The Information Stealer Malware Phenomenon
2. Mid-Heist Selfies
3. The LLM Pipeline
4. Prompt Engineering
5. LLM Assessment
6. Discriminating IoCs
7. Inside the Infostealer Playbook
8. Successful Campaigns: 2 Case Studies
9. Strength and Limits
10. Conclusion

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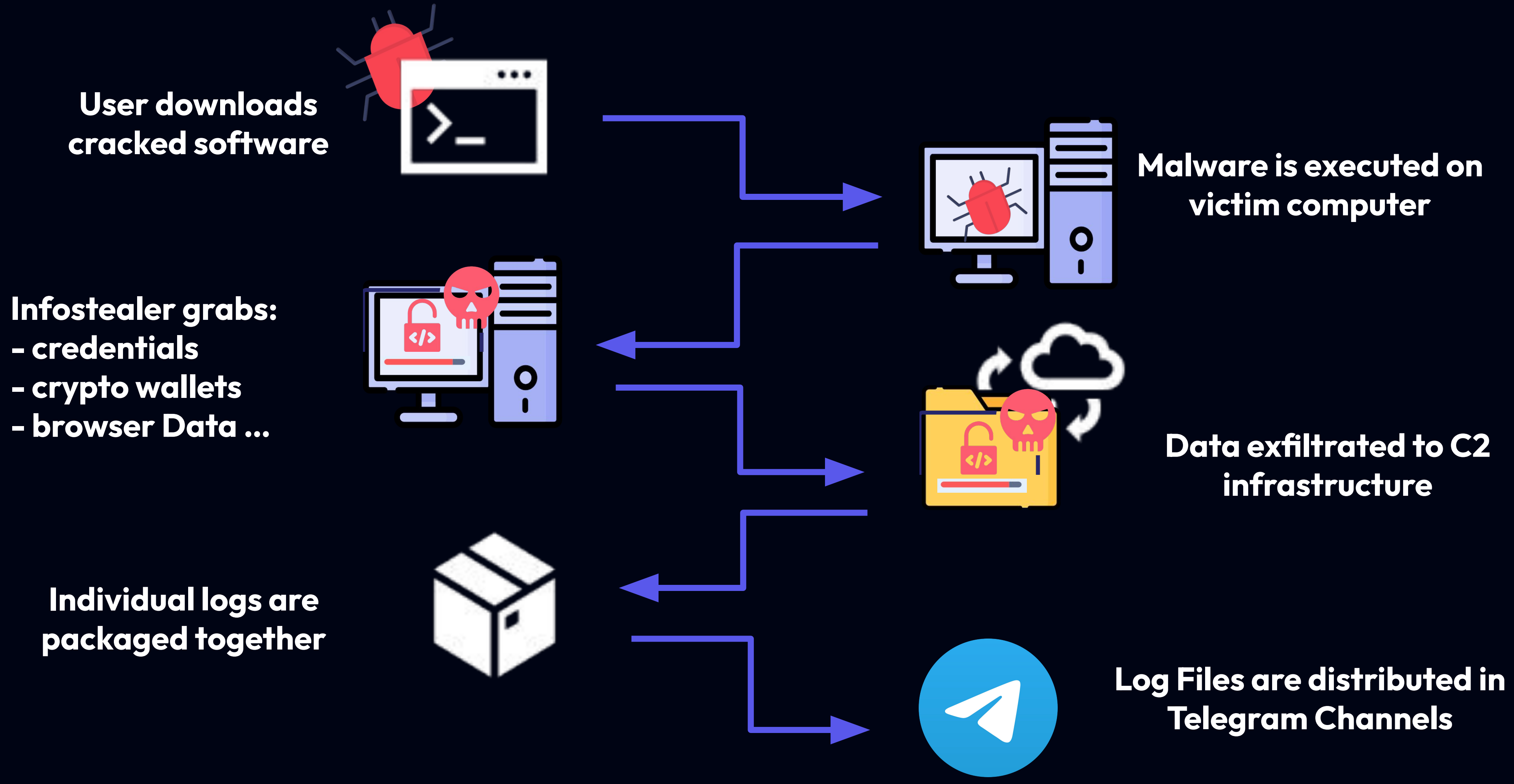
What is an Infostealer?

The Malware you (may) have never heard of:



User downloads cracked software

Malware is executed on victim computer

Infostealer grabs:
- credentials
- crypto wallets
- browser Data ...

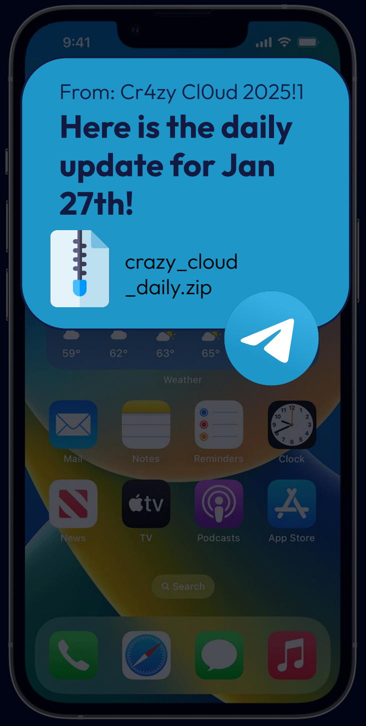
Data exfiltrated to C2 infrastructure

Individual logs are packaged together

Log Files are distributed in Telegram Channels

<u>Administrative rights NOT required! && No Persistence!</u>

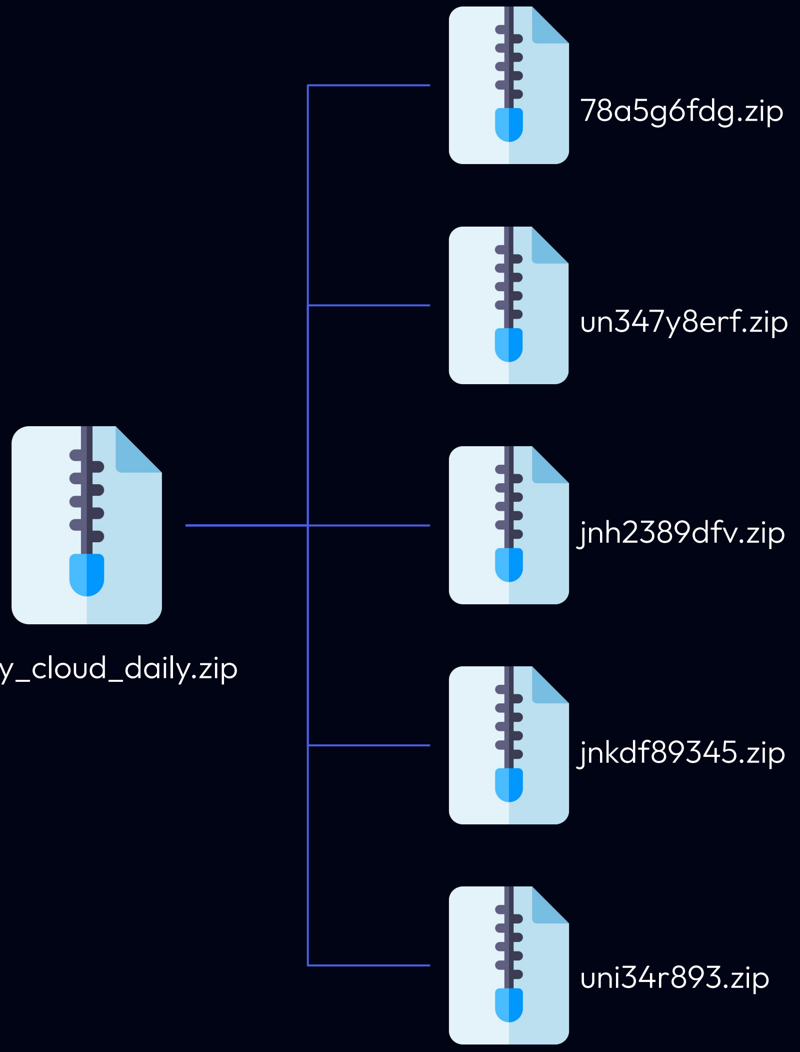
Stealer Log Structure



From: Cr4zy Cl0ud 2025!1

Here is the daily update for Jan 27th!

crazy_cloud_daily.zip



crazy_cloud_daily.zip

78a5g6fdg.zip

un347y8erf.zip

jnh2389dfv.zip

jnkdf89345.zip

uni34r893.zip

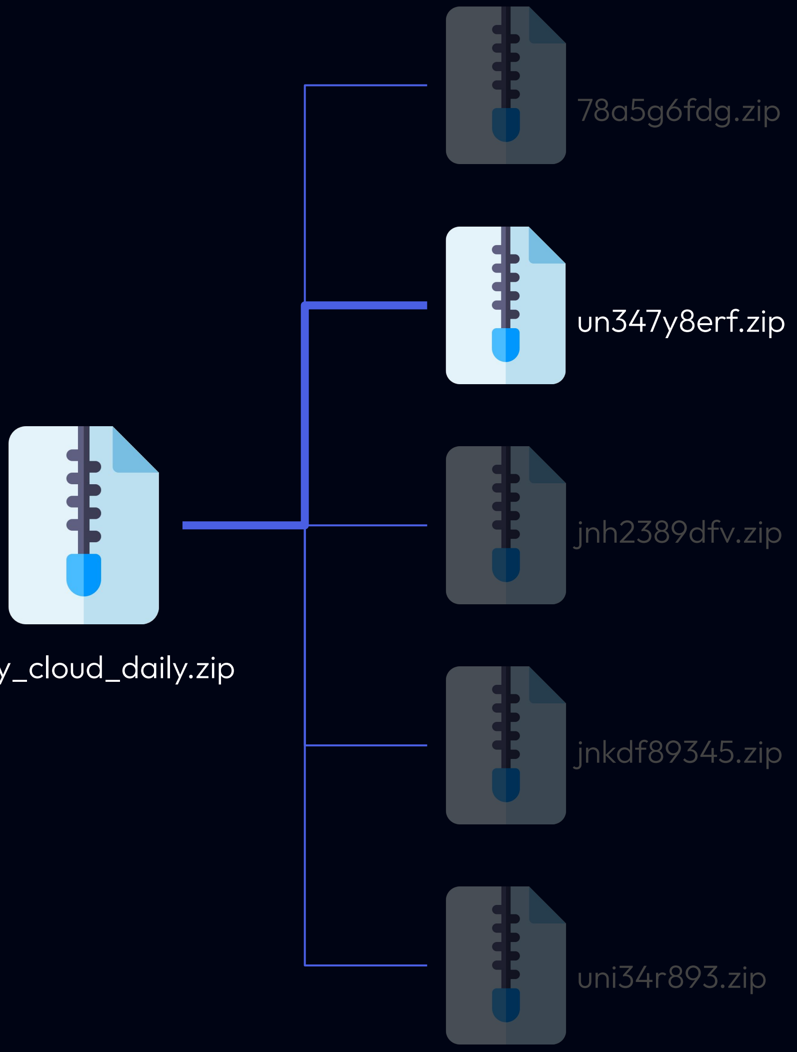
Stealer Log Structure

From: Cr4zy Cl0ud 2025!1

Here is the daily update for Jan 27th!

crazy_cloud_daily.zip

9:41
59°
62°
63°
65°
Weather
Mail
Notes
Reminders
Clock
News
TV
Podcasts
App Store
Search



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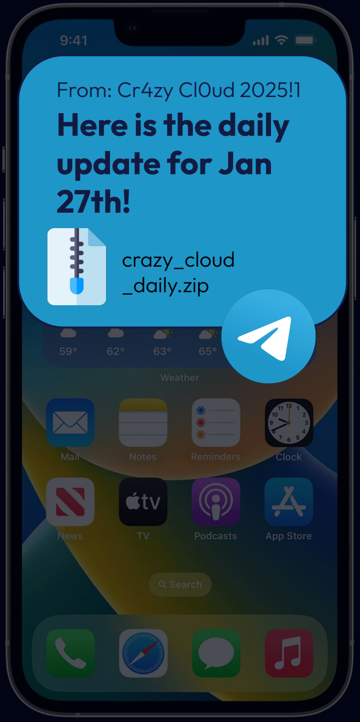

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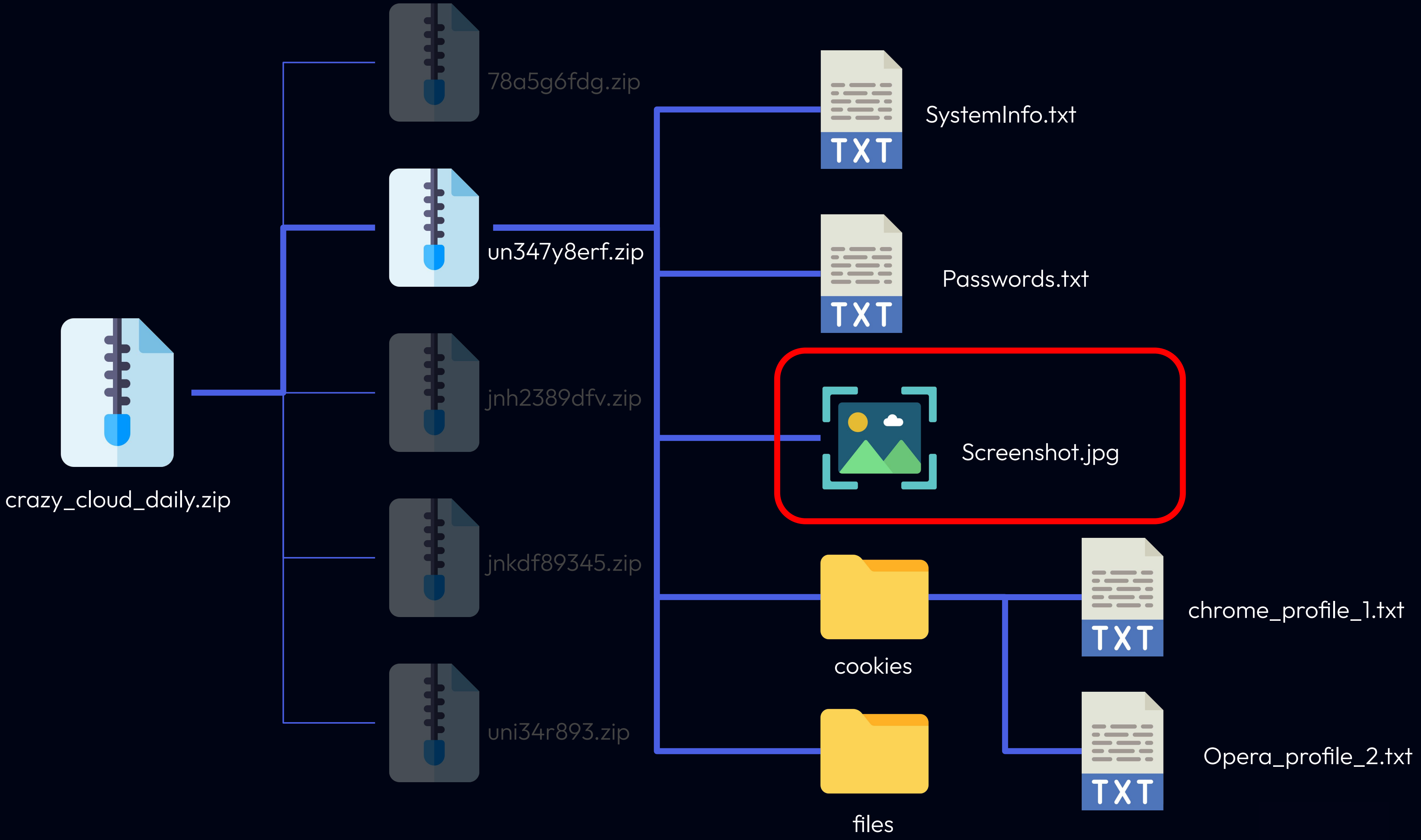

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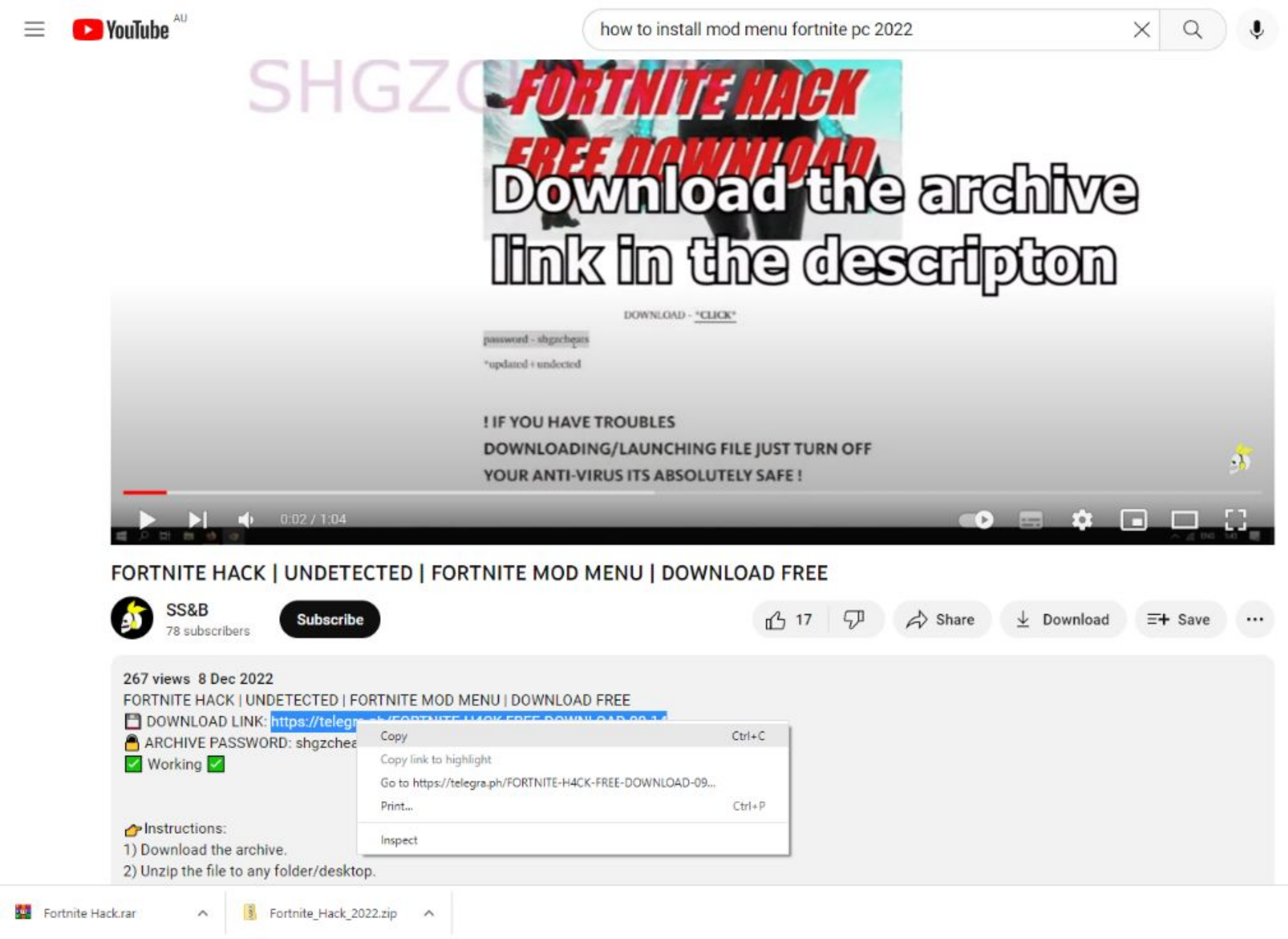
Mid-Heist sel

Mid-Heist selfies

Some examples

Mid-Heist selfies



Download the archive link in the descripton

DOWNLOAD - *CLICK*

password - shgzcheats

*updated + undected

! IF YOU HAVE TROUBLES DOWNLOADING/LAUNCHING FILE JUST TURN OFF YOUR ANTI-VIRUS ITS ABSOLUTELY SAFE !

FORTNITE HACK | UNDETECTED | FORTNITE MOD MENU | DOWNLOAD FREE

267 views 8 Dec 2022

FORTNITE HACK | UNDETECTED | FORTNITE MOD MENU | DOWNLOAD FREE

💾 DOWNLOAD LINK: https://telegr

🔒 ARCHIVE PASSWORD: shgzchea

✅ Working ✅

👉 Instructions:

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2) Unzip the file to any folder/desktop.

Some examples

Mid-Heist s

The KMS Auto Net Activato
mega.nz/
Gmail
YouTube
unt
Log in
Micr
Microsoft_Office_Cr....rar
Show all
19°C
غائم
4:26 AM
11/25/2022
4
US
THREAT ACTORS ENJOYING THEIR NEW FEATURE

THE NUMBERS

Mid-Heist selfies

Infection screenshots contain all the clues and hints needed to solve the mystery of infection

THE NUMBERS

Mid-Heist selfies

11

Malware Families

+15M

Screenshots*

+25%

of all logs

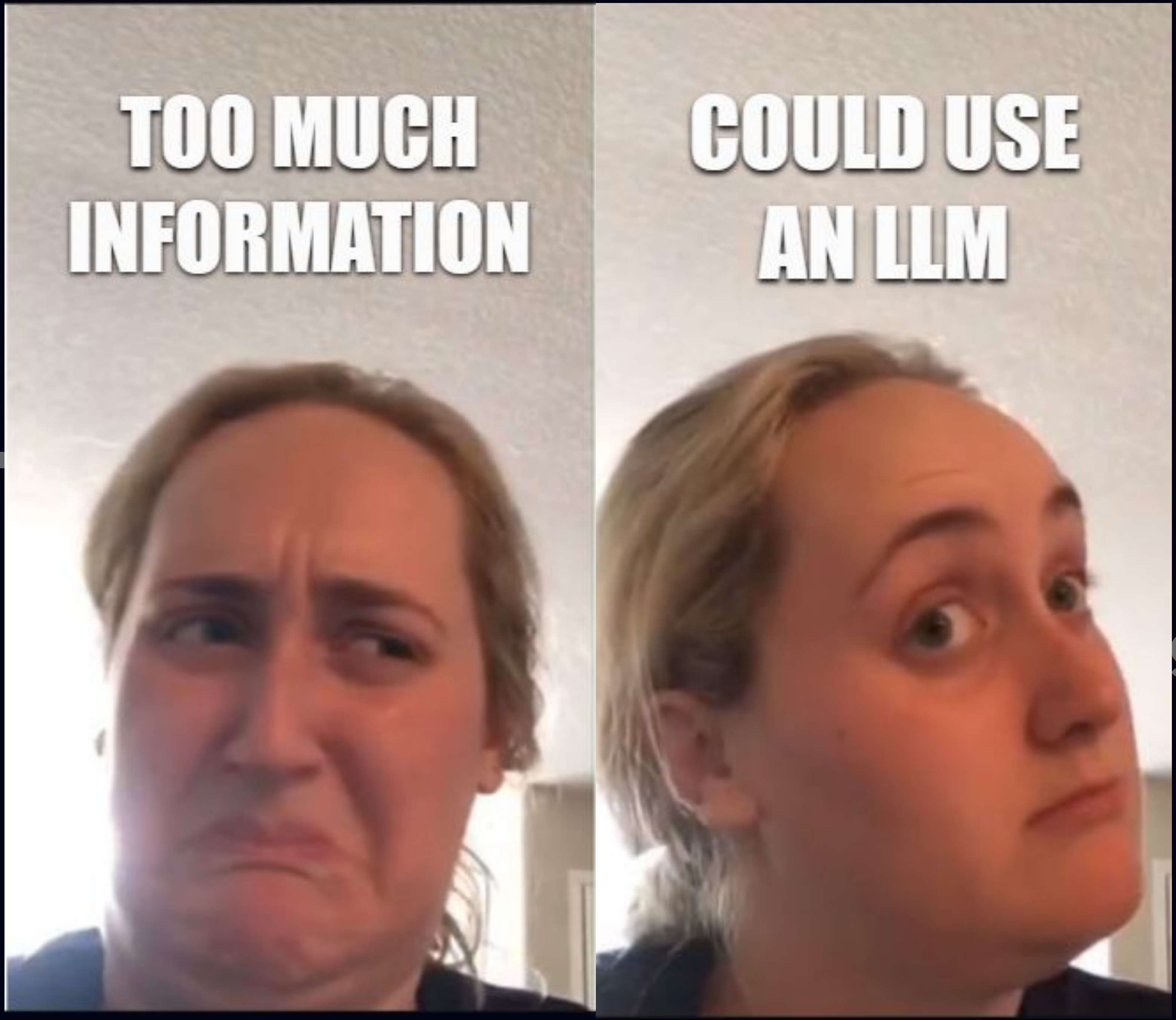
*Including duplicates

THE NUMBERS

Mid-Heist

1

Malware



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gs

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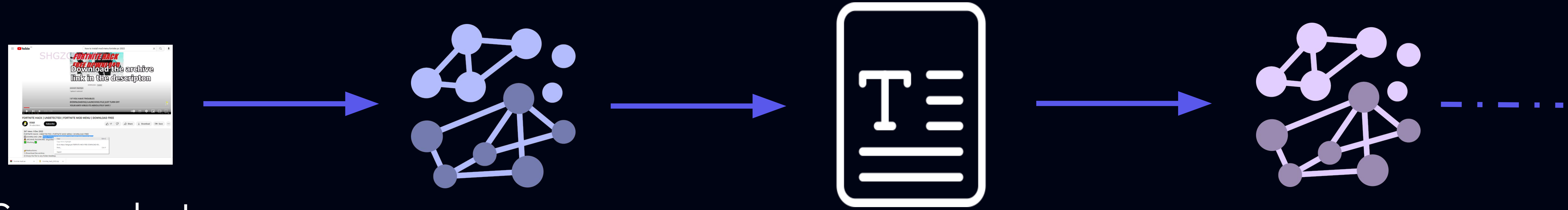
Overview of the Pipeline



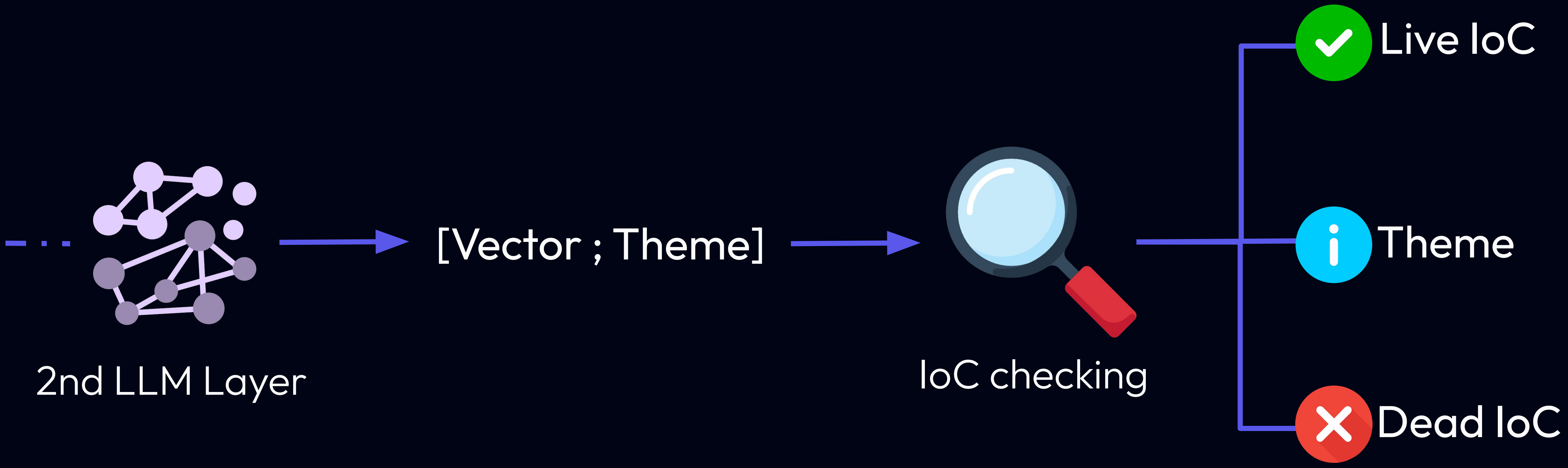
Screenshot

1st LLM Layer

Formatted Description

2nd LLM Layer

Overview of the Pipeline



2nd LLM Layer

[Vector ; Theme]

IoC checking

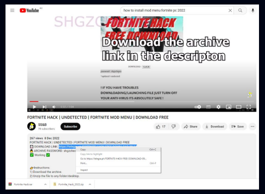
✓ Live IoC

ℹ Theme

✗ Dead IoC

Why 2 Layers ?

Overview of the Pipeline



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DOWNLOAD LINK: https://telegra

ARCHIVE PASSWORD: shgzche

✅ Working ✅

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Screenshot

ayer

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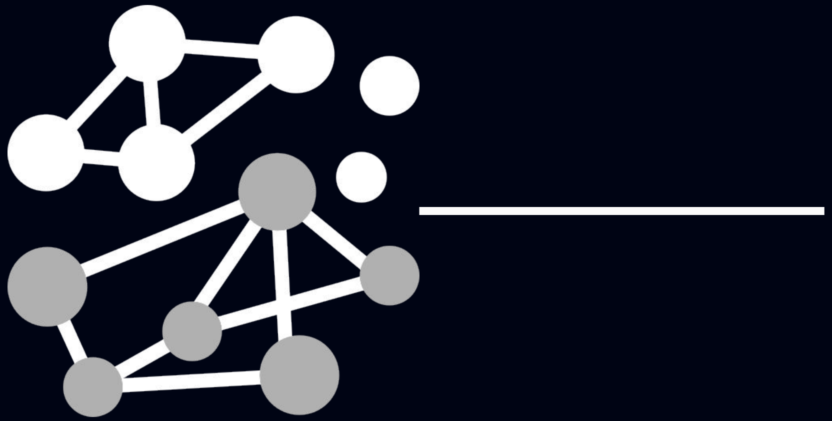
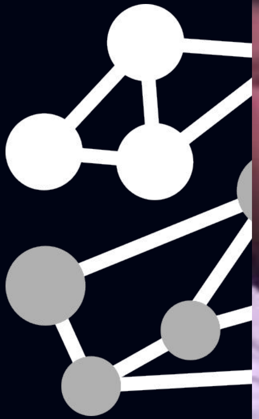


“Identify the infection vector”

Why 2 Layers ?

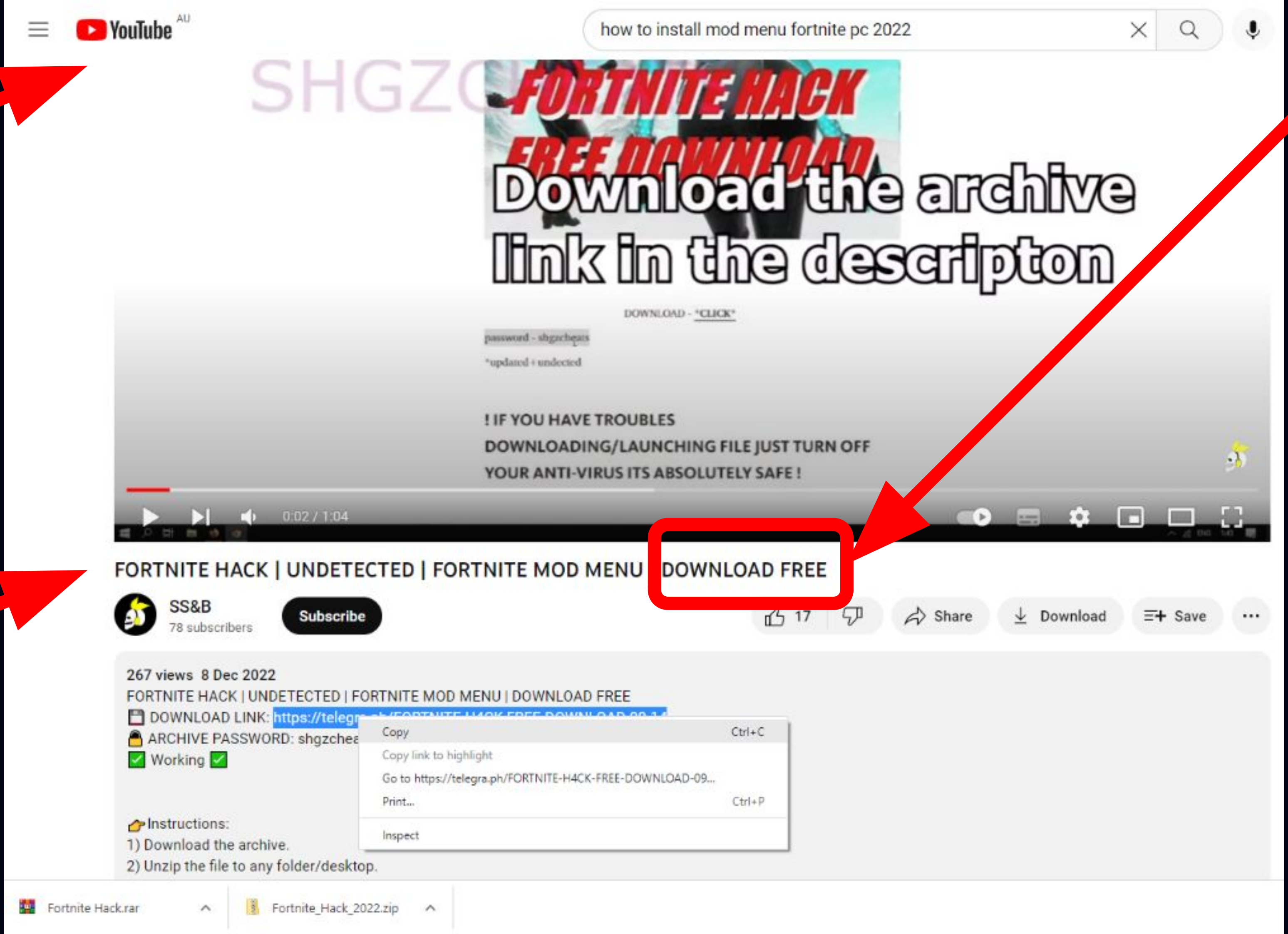
Overview of the Pipeline



vector”

Why 2 Layers ?

Prompt Engineering



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ARCHIVE PASSWORD: shgzchea

✅ Working ✅

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FORTNITE

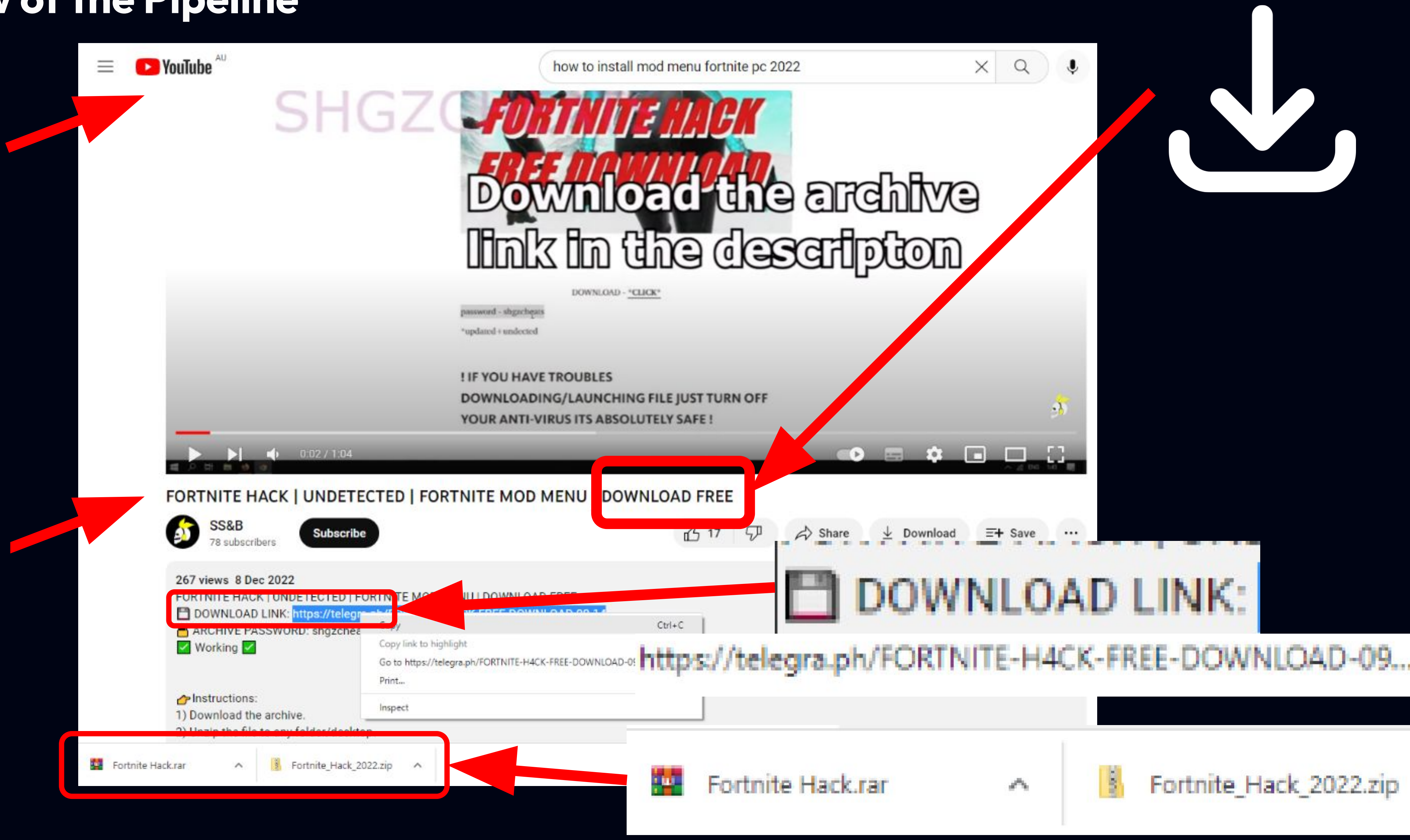
WHY 2 LAYERS ?

Overview of the Pipeline

1. Visually assess the screenshot

Why 2 Layers ?

Overview of the Pipeline



how to install mod menu fortnite pc 2022

SHGZC

FORTNITE HACK FREE DOWNLOAD

Download the archive link in the descripton

DOWNLOAD - *CLICK*

password - shgzcheats

*updated + undected

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0:02 / 1:04

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78 subscribers

267 views 8 Dec 2022

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DOWNLOAD LINK: https://telegr

ARCHIVE PASSWORD: shgzchea

✅ Working ✅

Instructions:
1) Download the archive.

DOWNLOAD LINK:

https://telegra.ph/FORTNITE-H4CK-FREE-DOWNLOAD-09...

Why 2 Layers ?

Overview of the Pipeline

1. Visually assess the screenshot
2. Point out potential infection vectors based on field knowledge

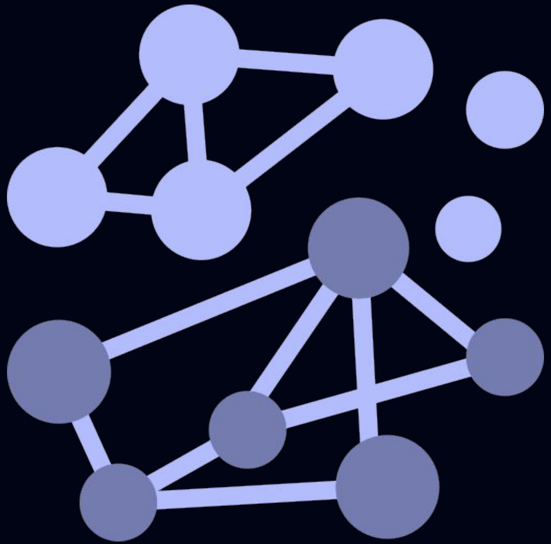
Why 2 Layers ?

Overview of the Pipeline

An LLM can't just 'figure it out':
we must translate intuition into
instructions.

Why 2 Layers ?

Overview of the Pipeline



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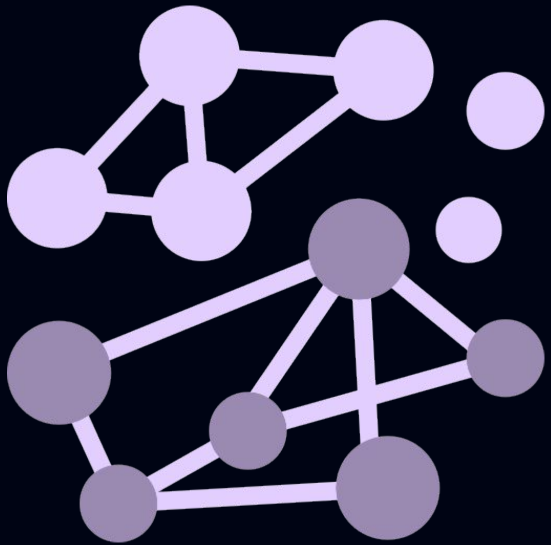

2. Point out infection vectors

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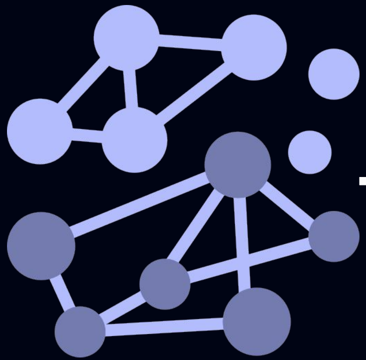
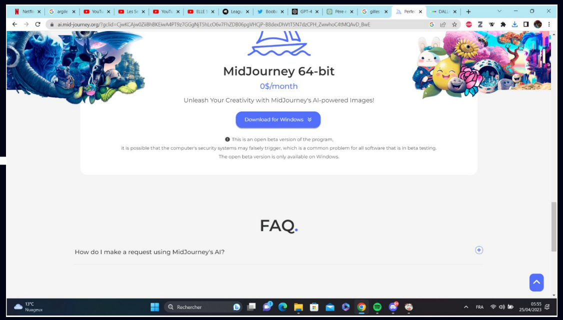
The first layer

Prompt Engineering



Visual Assessment



ai.mid-journey.org/?gclid=CjwKCAjw0ZiiBhBKEiwA4PT9z7GGgNjT5hLcO6v7FhZDB06pgVHCjP-B8dexDhVtT5N7dzCPH_ZwwhoC4tMQAvD_BwE

MidJourney 64-bit

0$/month

Unleash Your Creativity with MidJourney's AI-powered Images!

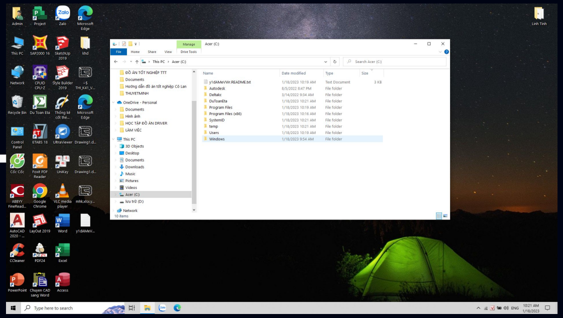
Download for Windows

This is an open beta version of the program,
it is possible that the computer's security systems may falsely trigger, which is a common problem for all software that is in beta testing.
The open beta version is only available on Windows.

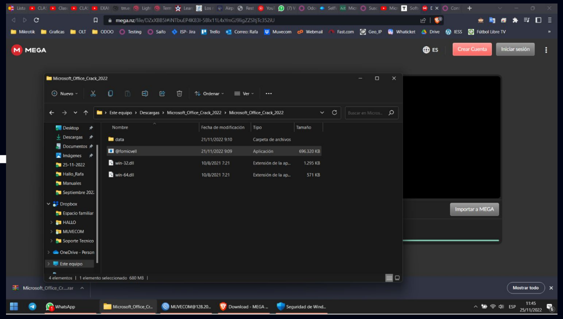
FAQ.

How do I make a request using MidJourney's AI?

Web Content



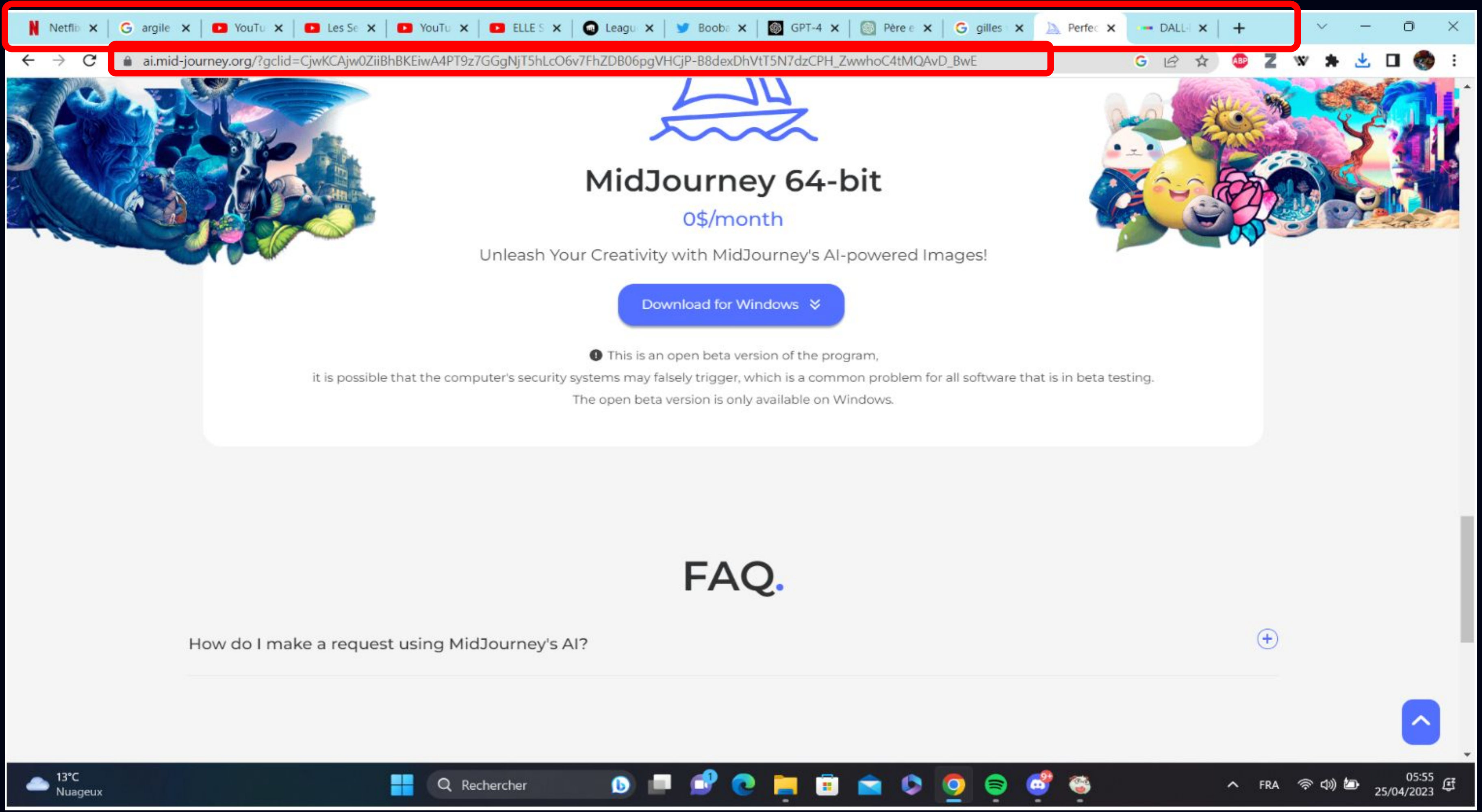
File System



Hybrid

The first layer

Prompt Engineering


Web Content

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The first layer

Prompt Engineering

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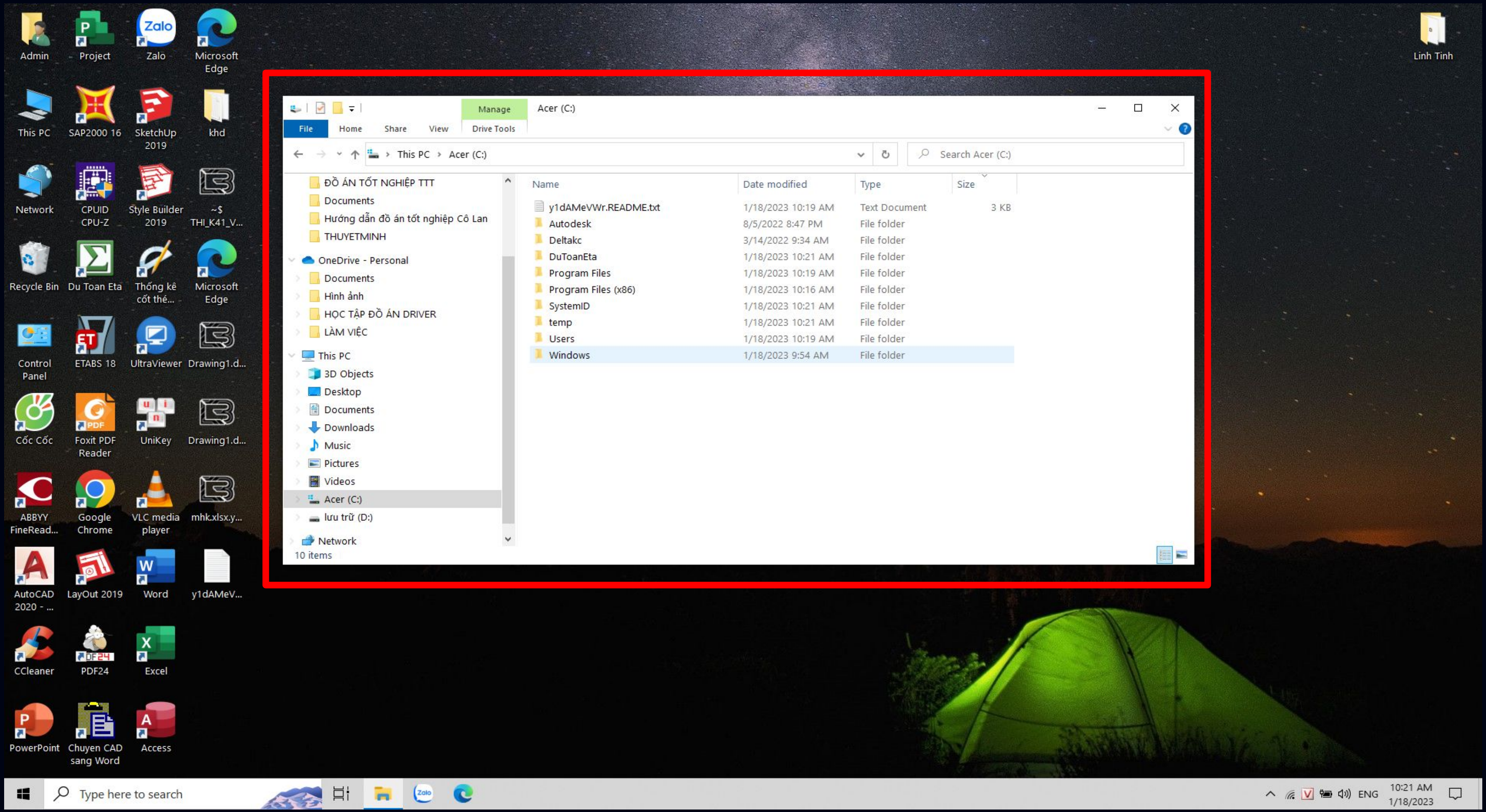
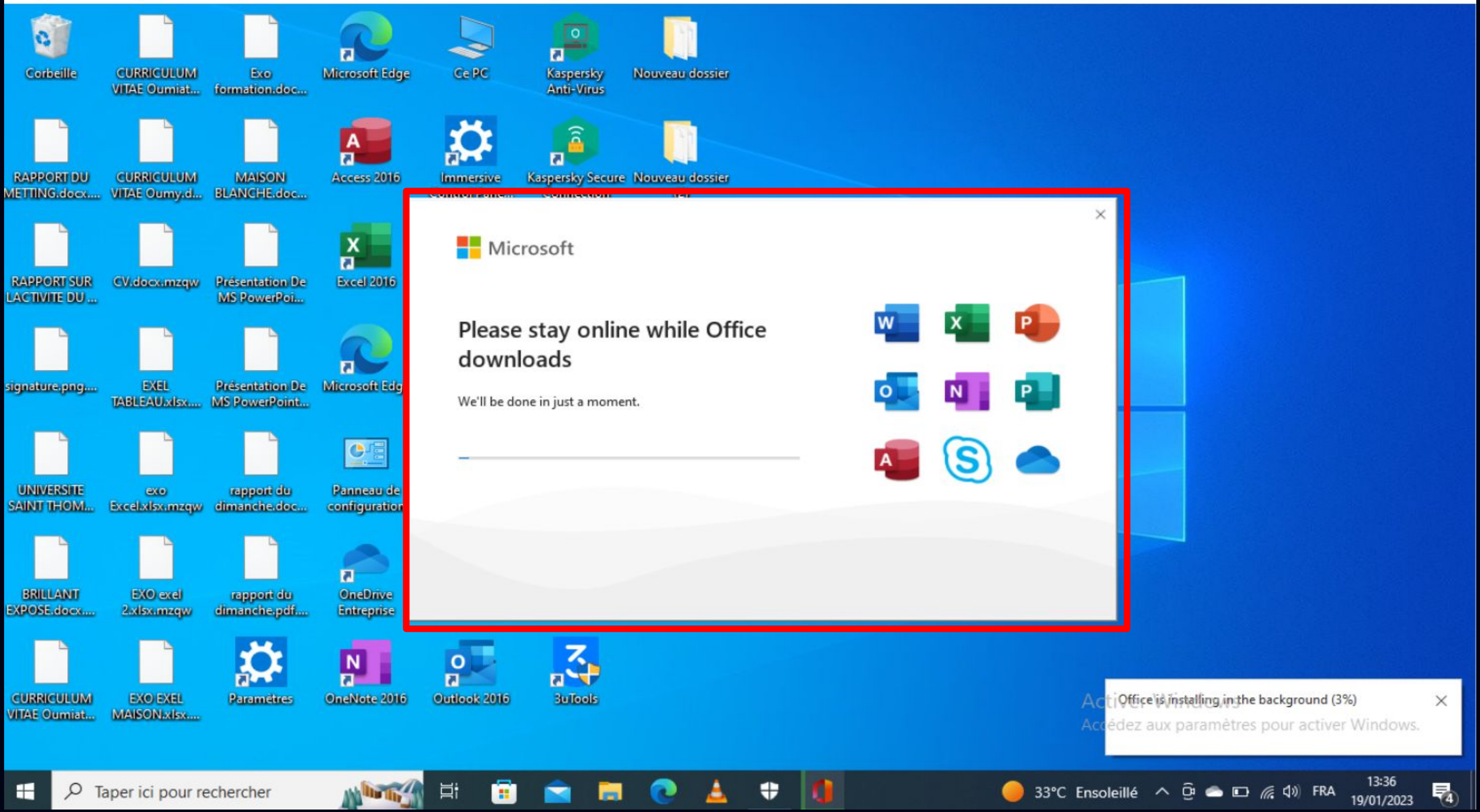


Name	Date modified	Type	Size
y1dAMeVWr.README.txt	1/18/2023 10:19 AM	Text Document	3 KB
Autodesk	8/5/2022 8:47 PM	File folder	
Deltakc	3/14/2022 9:34 AM	File folder	
DuToanEta	1/18/2023 10:21 AM	File folder	
Program Files	1/18/2023 10:19 AM	File folder	
Program Files (x86)	1/18/2023 10:16 AM	File folder	
SystemID	1/18/2023 10:21 AM	File folder	
temp	1/18/2023 10:21 AM	File folder	
Users	1/18/2023 10:19 AM	File folder	
Windows	1/18/2023 9:54 AM	File folder	

The first layer

Prompt Engineering

File System



Microsoft

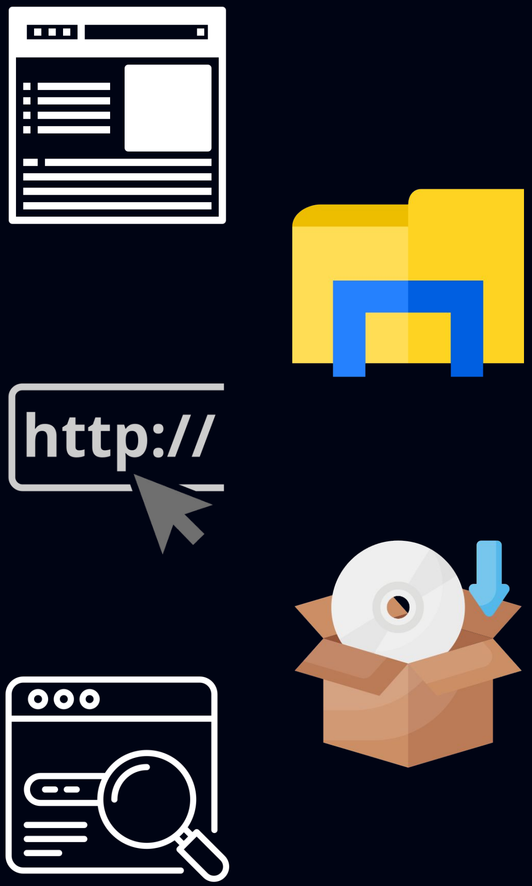
Please stay online while Office downloads

We'll be done in just a moment.

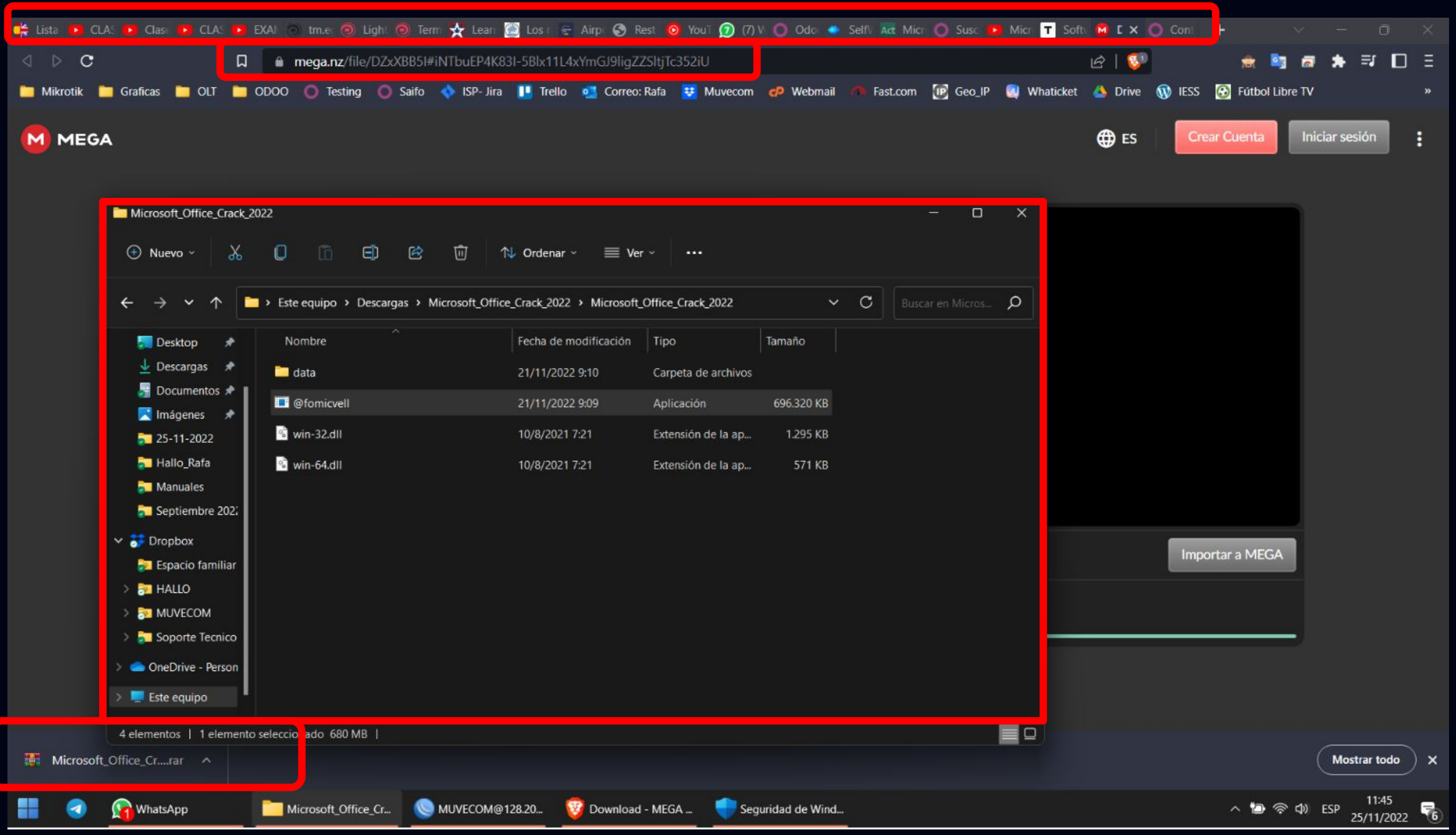
Office is installing in the background (3%)

The first layer

Prompt Engineering



Hybrid



Nombre	Fecha de modificación	Tipo	Tamaño
data	21/11/2022 9:10	Carpeta de archivos	
@fomicvell	21/11/2022 9:09	Aplicación	696.320 KB
win-32.dll	10/8/2021 7:21	Extensión de la ap...	1.295 KB
win-64.dll	10/8/2021 7:21	Extensión de la ap...	571 KB

The first layer

Prompt Engineering

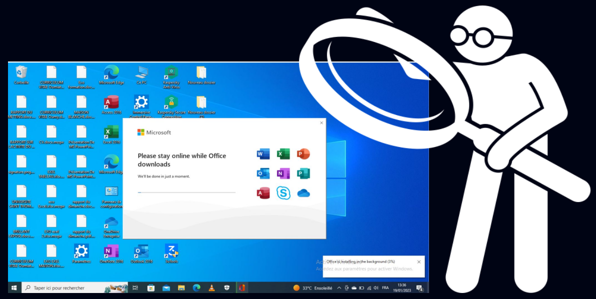
Visual Assessment

Scene Description

File Explorer & Installer

URL

Browser Tab Identification



Suspicious Elements

### Main Content:

Describe the main content visible on the screen, include as much detail as possible.

### Files/Programs:

Installer: Focus on installers or install window, put the name of the file being installed. When there is a name for the installer window, get the name of file/folder or the path.

File explorer: Focus on file explorer if there is one. Put the names of files and their extensions in this section. If the path of the file explorer reveals the name of a folder/file, get it. Ignore all desktop programs and icons. Seperate filenames by a ",". If there aren't any file, executable or program put "X".

### URL

Put all URLs you see. If there aren't any URLs, put "X".

### Browser Tabs Analysis:

Ignore bookmarks. For each active browser tab in the top row, list in this format:

- **[logo: {logo name}] [text: {visible text}] (meaning/context if apparent)**. If there aren't any webpage, put "X".

### Suspicious Elements:

Highlight any file, executable, program, URL or download link that could contain malware. These could be youtube videos, blogs, google drive, etc.

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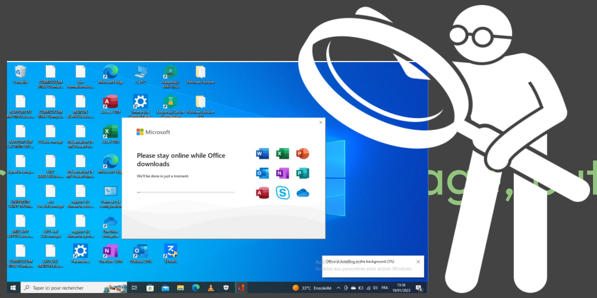

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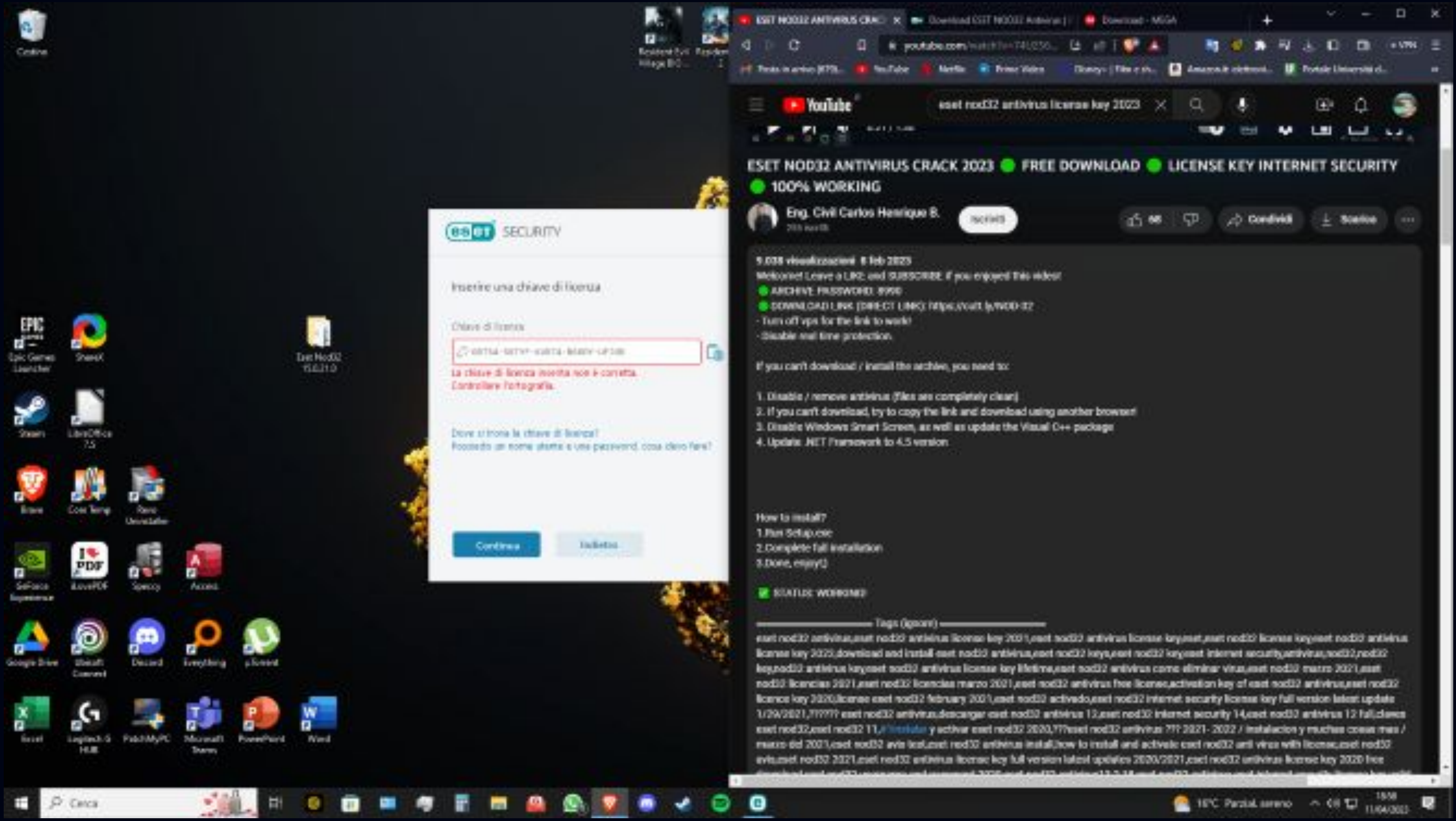


ESET SECURITY

Inserire una chiave di licenza

Chiave di licenza

La chiave di licenza inserita non è corretta. Controllare l'ortografia.

Dove si trova la chiave di licenza?
Ricevuto un nome utente e una password, cosa devo fare?

ESET NOD32 ANTIVIRUS CRACK 2023 🟢 FREE DOWNLOAD 🟢 LICENSE KEY INTERNET SECURITY 🟢 100% WORKING

Eng. Civil Carlos Henrique B.

9.038 visualizzazioni 8 feb 2023
Welcome! Leave a LIKE and SUBSCRIBE if you enjoyed this video!
🟢 ARCHIVE PASSWORD: 8990
🟢 DOWNLOAD LINK (DIRECT LINK): https://cutt.ly/NOD-32
- Turn off vpn for the link to work!
- Disable real time protection.

If you can't download / install the archive, you need to:

1. Disable / remove antivirus (files are completely clean)
2. If you can't download, try to copy the link and download using another browser!
3. Disable Windows Smart Screen, as well as update the Visual C++ package
4. Update .NET Framework to 4.5 version

How to install?
1.Run Setup.exe
2.Complete full installation
3.Done, enjoy!)

☑ STATUS: WORKING

———————— Tags (ignore) ————————

### Main Content:
The screenshot displays a computer desktop environment with an ESET Security window on the left side, prompting the user to input a license key. There is a red error message indicating that the entered license key is not correct. On the right side, there is a YouTube video titled "ESET NOD32 ANTIVIRUS CRACK 2023" which claims to offer a free download of a license key for ESET antivirus software. It includes a description with instructions for installation and cautionary steps such as disabling antivirus and Windows Smart Screen.

### Files/Programs:
Installer: ESET NOD32 ANTIVIRUS CRACK 2023
File explorer: X

### URL
1. https://www.youtube.com/watch?v=HBG5nZQ7ThA

###Tabs
1. {Youtube} : [Download ESET NOD32 ANTIVIRUS CRACK 2023]
2. {ESET} [License key internet security 100% working]

### Suspicious Elements:
- The YouTube video titled "ESET NOD32 ANTIVIRUS CRACK 2023" and the associated download link (https://cutt.ly/NOD-32) are highly suspicious, as they suggest accessing cracked software, which typically contains malware.
- The license key entry prompt in the ESET window may indicate that the user is following instructions from the video to illegally activate software.

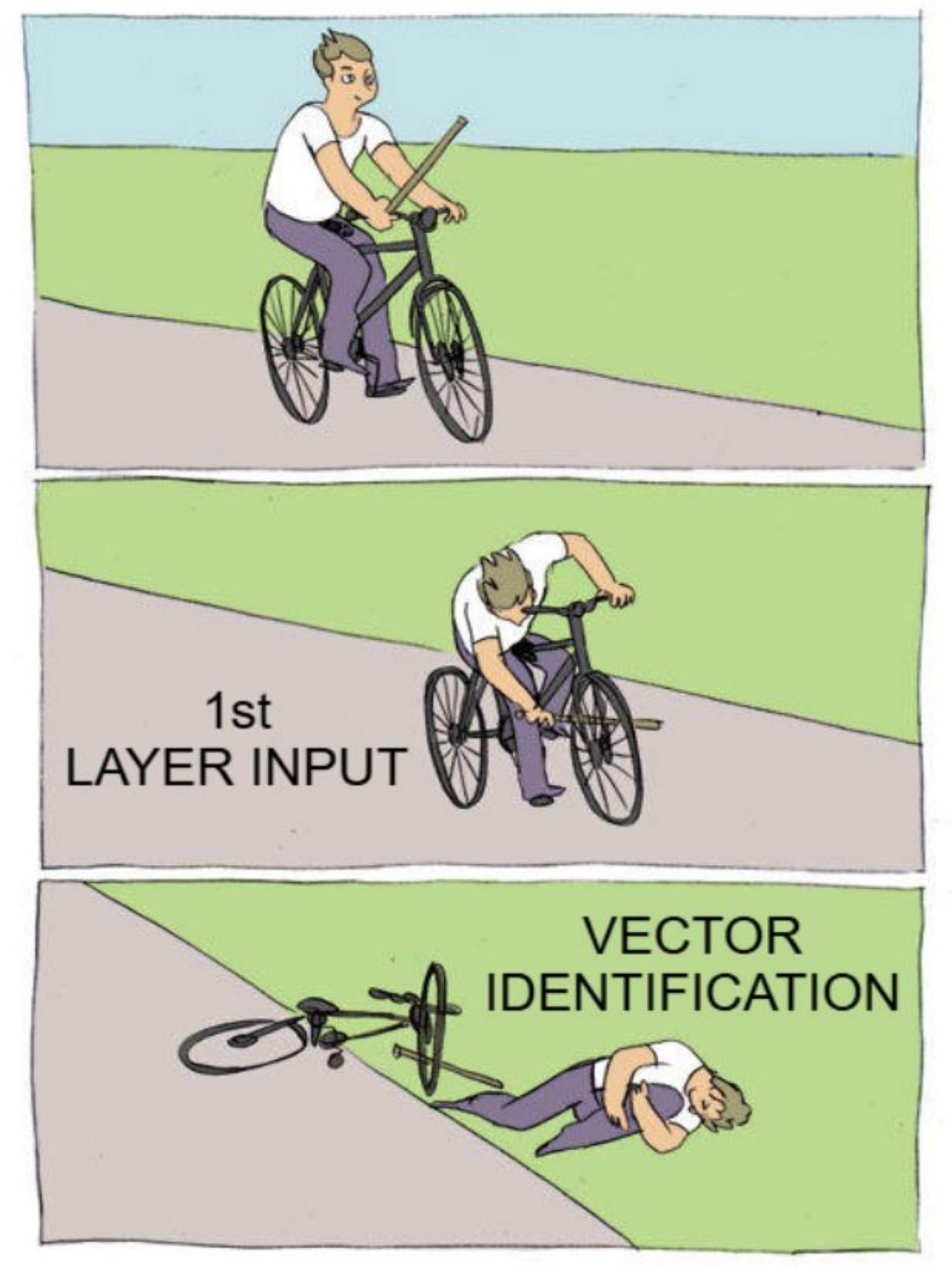
The first laye

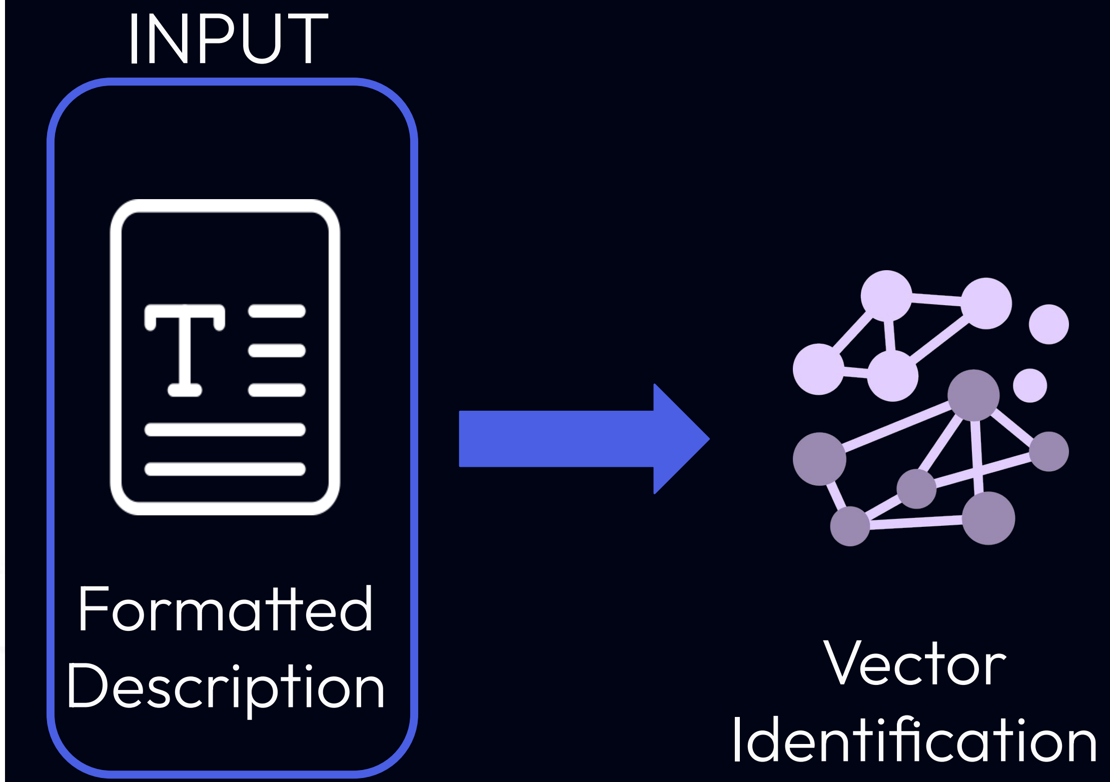
Promp

Web Content

File System

Hybrid





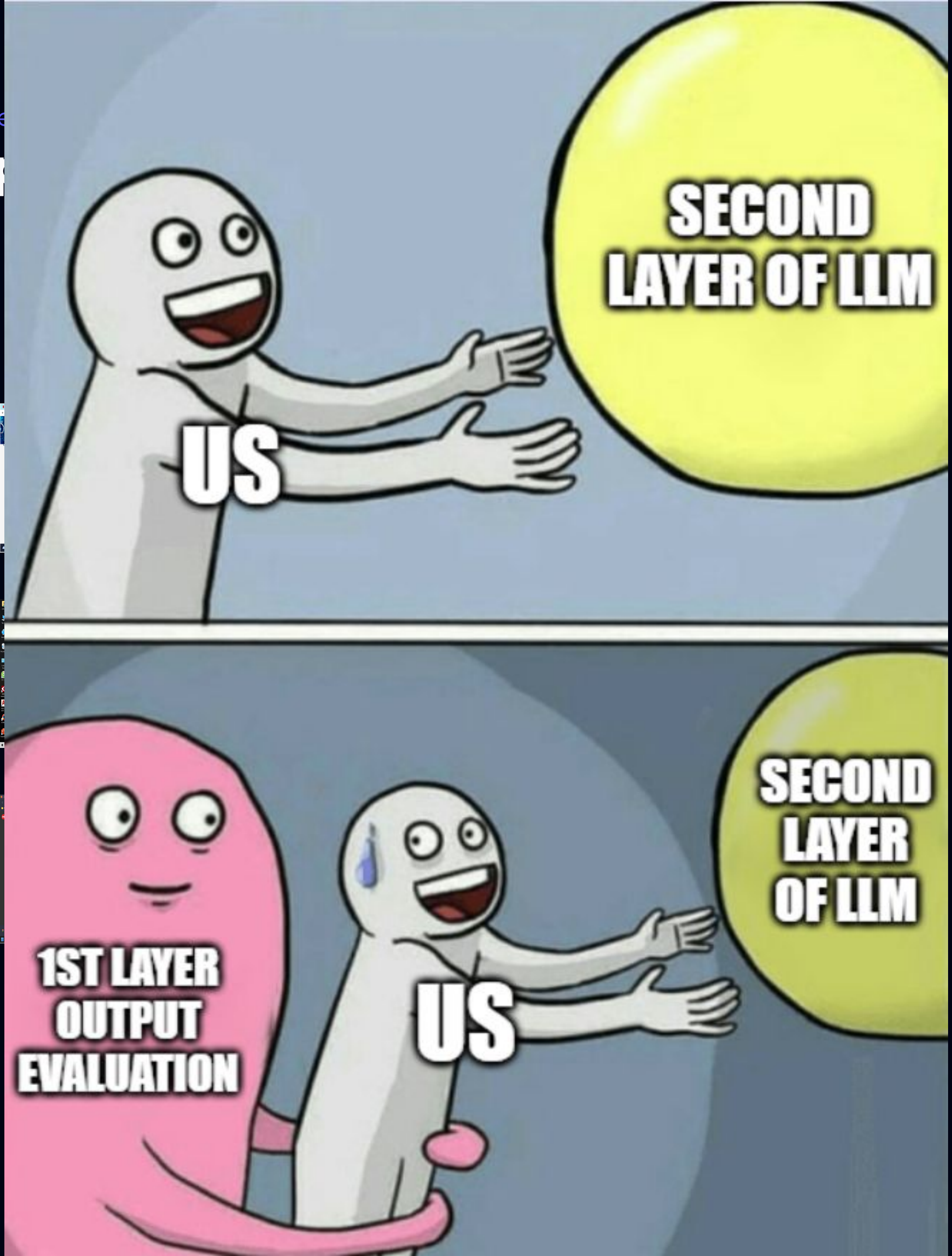
The first laye

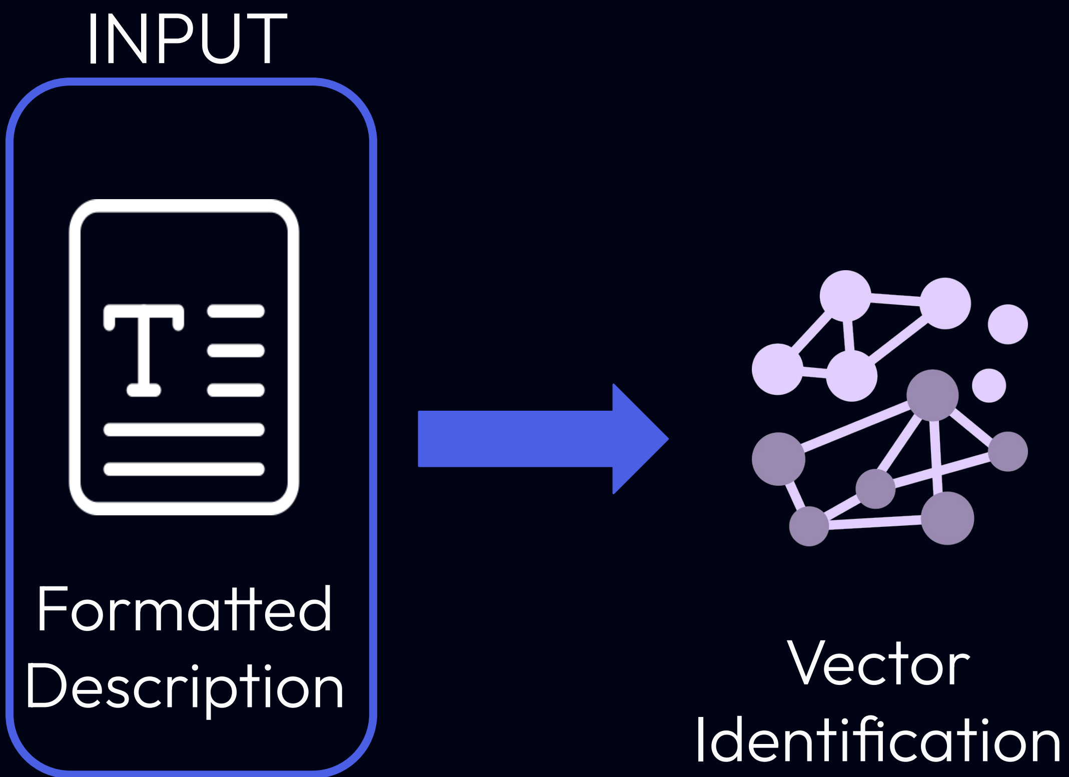
Promp

Web Content

File System

Hybrid





INPUT

Formatted Description

Vector Identification

Agenda

1. The Information Stealer Malware Phenomenon
2. Mid-Heist Selfies
3. The LLM Pipeline
4. Prompt Engineering
5. LLM Assessment
6. Discriminating IoCs
7. Inside the Infostealer Playbook
8. Successful Campaigns: 2 Case Studies
9. Strength and Limits
10. Conclusion

The first layer

Evaluation

Visual Assessment

96%

Scene Description

100%

File Explorer & Installer

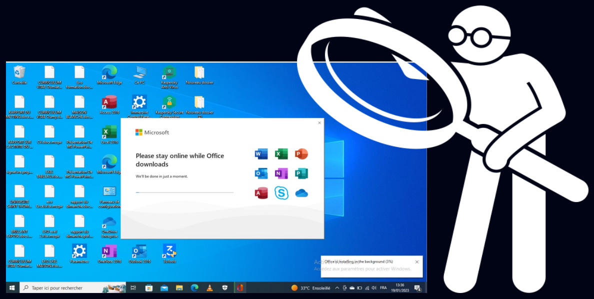
100%

URL

INCONSISTENT

Browser Tab Identification

85%



Microsoft

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Suspicious Elements

The first layer

Evaluation - Browser Tab Identification

INCONSISTENT

Browser Tab Identification

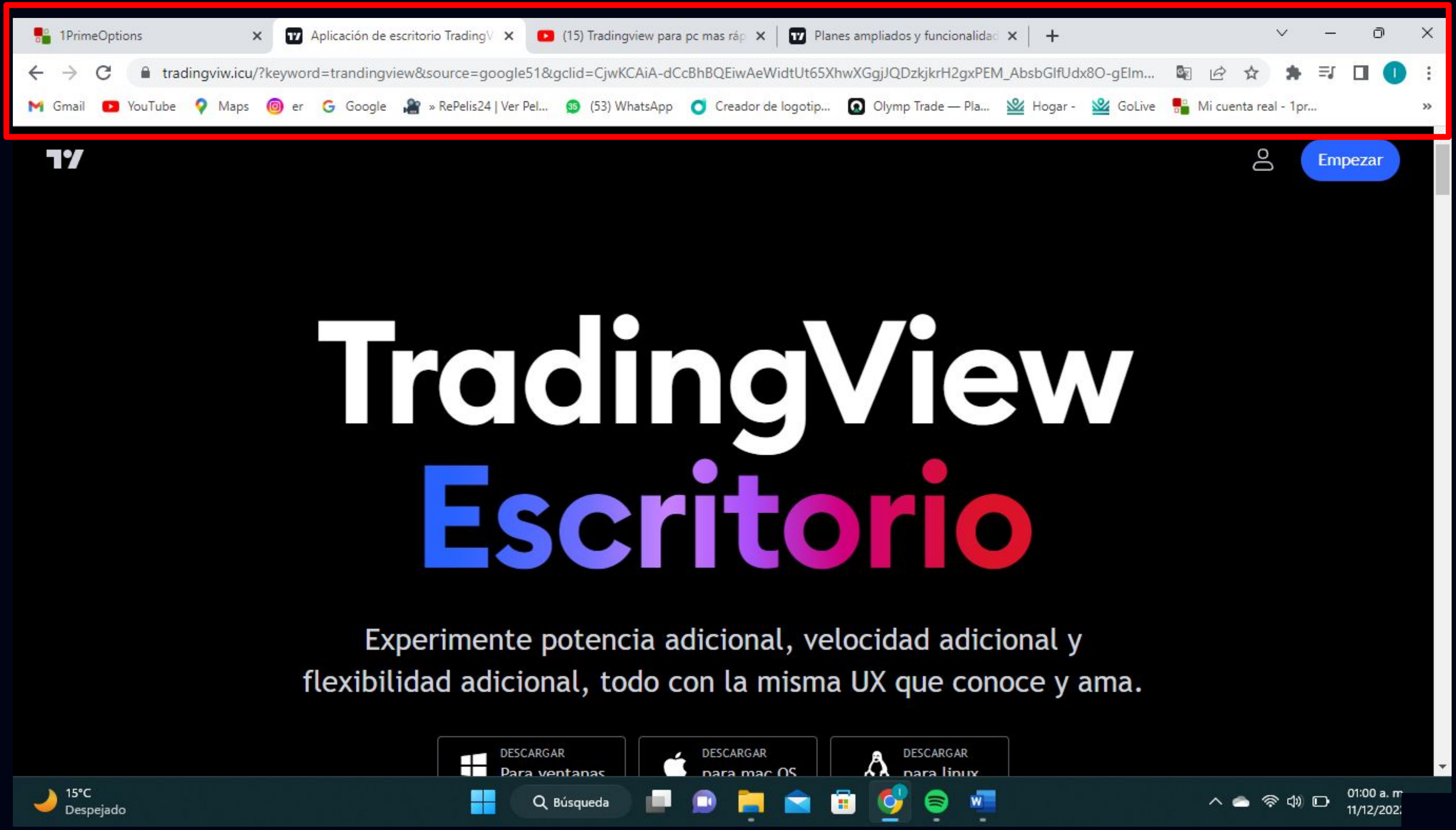
30% ✓

32% !

36% ✗

The first layer

Evaluation - Browser Tab Identification - Case Study



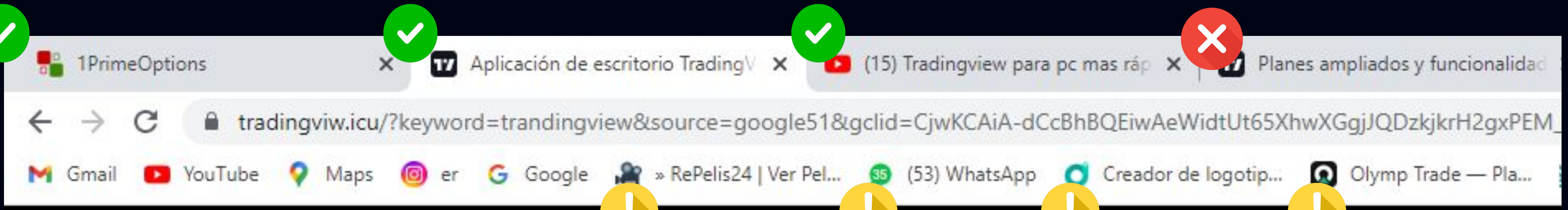
tradingviw.icu/?keyword=trandingview&source=google51&gclid=CjwKCAiA-dCcBhBQEiwAeWidtUt65XhwXGgjJQDzkjkrH2gxPEM_AbsbGlfUdx8O-gElm...

TradingView
Escritorio

Experimente potencia adicional, velocidad adicional y flexibilidad adicional, todo con la misma UX que conoce y ama.

The first layer

Evaluation - Browser Tab Identification - Case Study


1PrimeOptions
Aplicación de escritorio Trading
(15) Tradingview para pc mas ráp
Planes ampliados y funcionalida
tradingviw.icu/?keyword=trandingview&source=google51&gclid=CjwKCAiA-dCcBhBQEiwAeWidtUt65XhwXGgjJQDzkjkrH2gxPEM_
Gmail
YouTube
Maps
er
Google
» RePelis24 | Ver Pel...
(53) WhatsApp
Creador de logotip...
Olymp Trade — Pla...

```
### Browser Tabs Analysis:
- [logo: TradingView] [text: Aplicación de escritorio TradingView] (A webpage for the desktop
application of TradingView)
- [logo: YouTube] [text: (15) Tradingview para pc mas rápido] (A video related to using
TradingView on PC)
- [logo: Google] [text: 1PrimeOptions] (A tab likely related to trading or financial
information)
- [logo: WhatsApp] [text: (53)] (Notifications for WhatsApp)
- [logo: Google] [text: RePelis24 | Ver Pel...] (A site for watching movies or series)
- [logo: Google] [text: Creador de logotipo... (Logo creator link)
- [unknown logo] [text: Olymp Trade — Pla...] (A financial trading platform)
```

The first layer

Evaluation - Solution

Visual Assessment

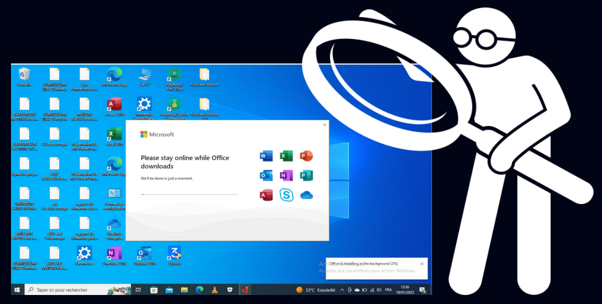
Scene Description

File Explorer & Installer

URL

INCONSISTENT

Browser Tab Identification



Microsoft

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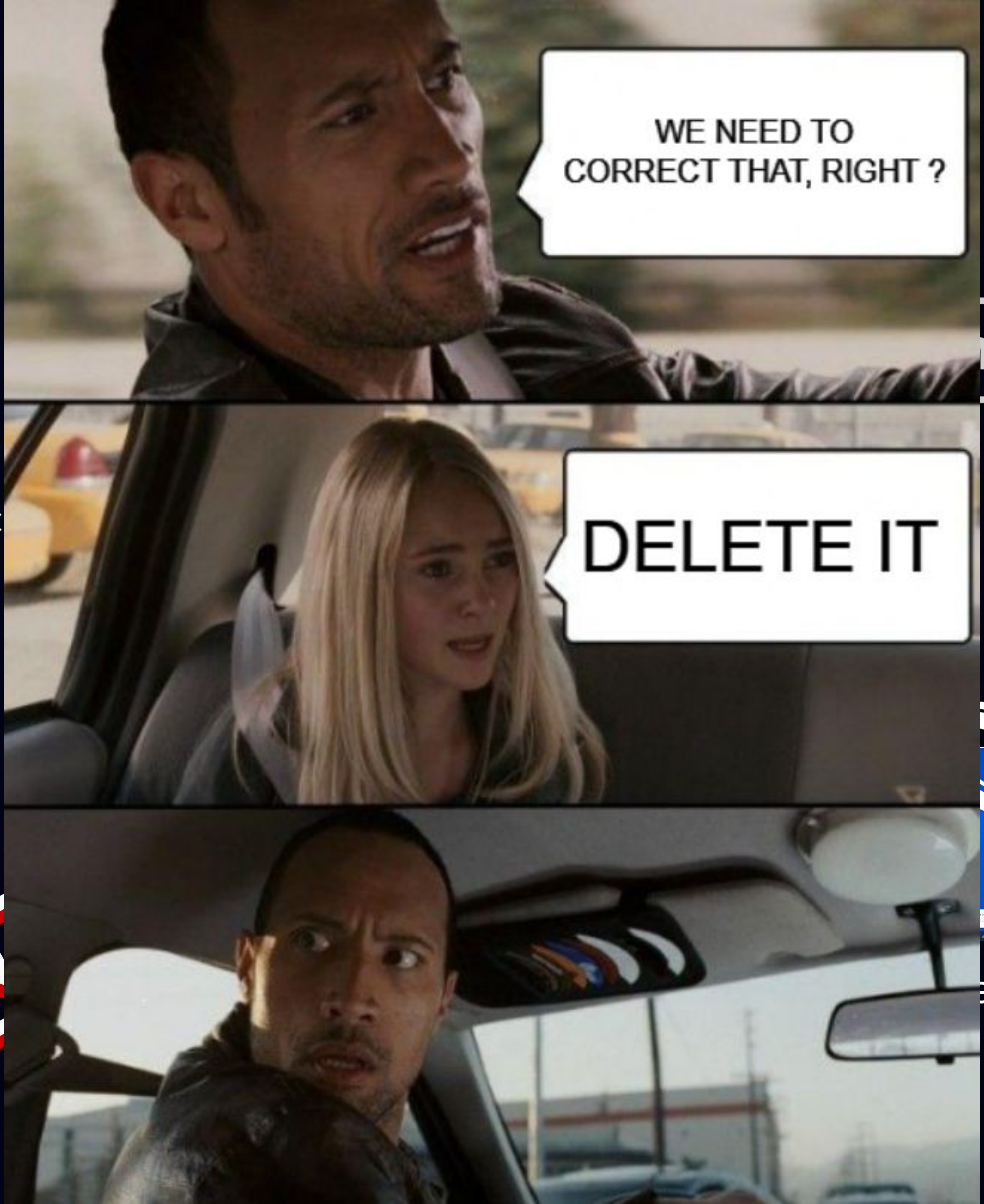
Suspicious Elements

The first layer

Evaluation - Solution

Visual Assessment

Sc



ttp://

URL

ents

The first layer

Evaluation - Solution

Visual Assessment

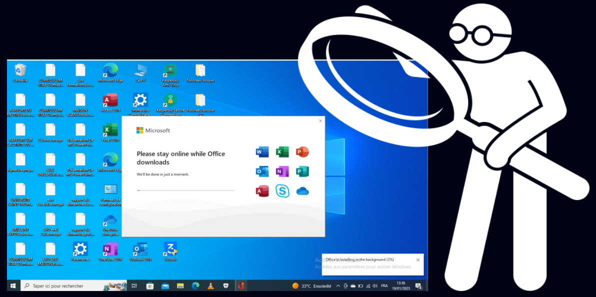
Scene Description

File Explorer & Installer

URL

INCONSISTENT

Browser Tab Identification



Microsoft

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Suspicious Elements

The first layer

Evaluation - Solution

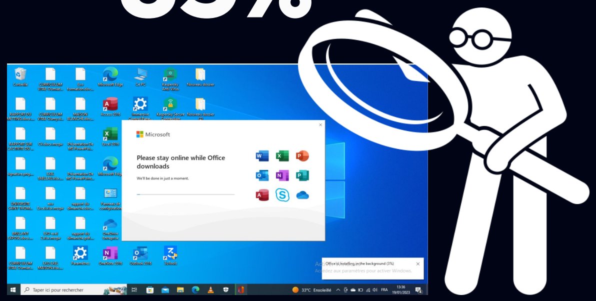
Visual Assessment

& Installer

http://

URL

85%



Microsoft

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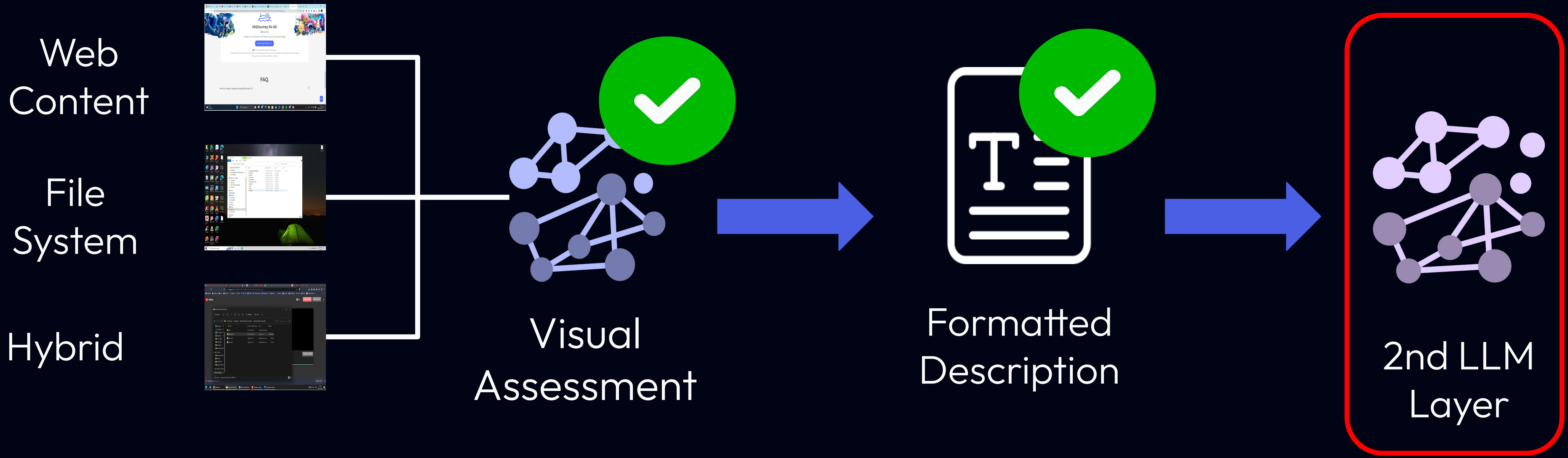
Suspicious Elements

The first layer

Evaluation



Web Content

File System

Hybrid

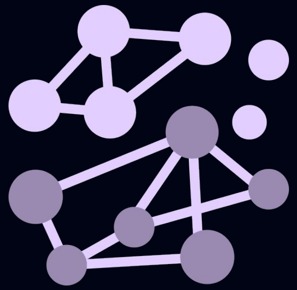
Visual Assessment

Formatted Description

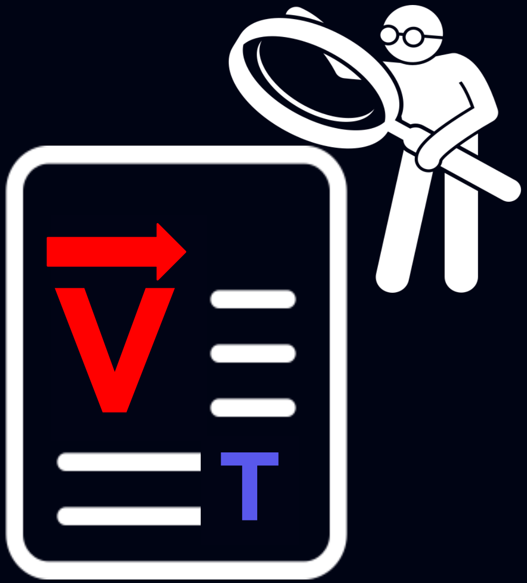
2nd LLM Layer

THE 2ND LAYER

THE LLM LAYERS



Vector identification
+ formatting



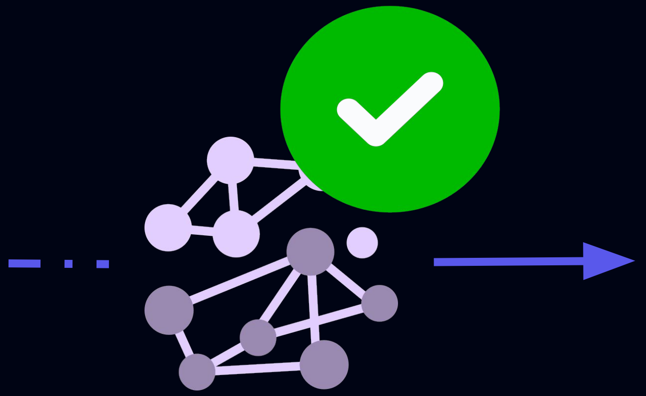
[$\vec{V}$ector ; Theme]

$\vec{V}$ `https://mega.nz/folder/GEkRCKaT#f93dJ6myfe3fENhDS4wqxQ;`

T `KMSAuto++ v1.8.7 for Microsoft product activation`

Getting out the trash

Discriminating IoCs

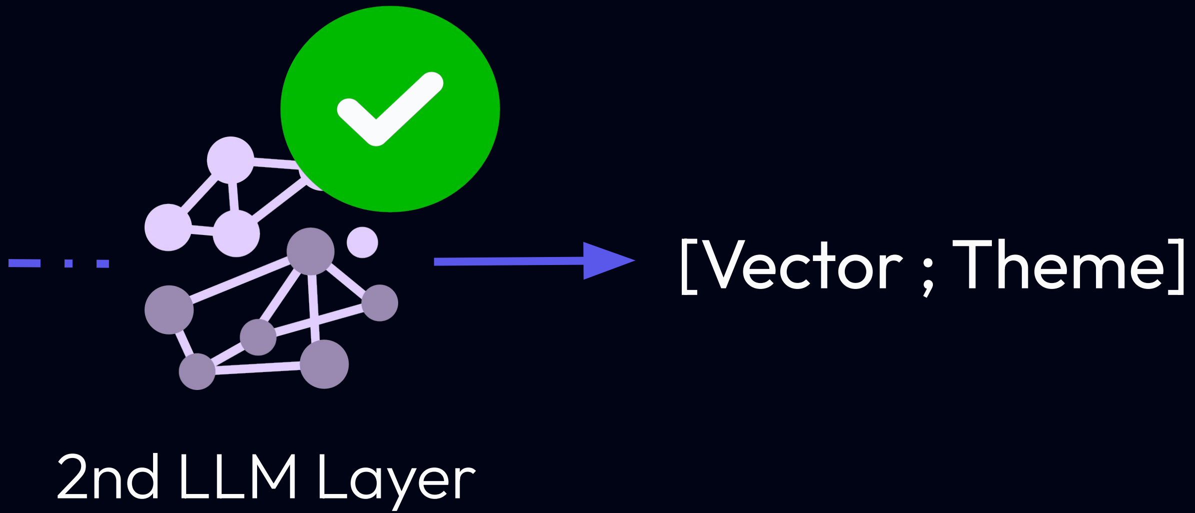


2nd LLM Layer

[Vector ; Theme]

Getting out the trash

Discriminating IoCs



[Vector ; Theme]

2nd LLM Layer

Getting out the trash

Discrimin g IoCs

2nd L

Getting out the trash

Discrimin IoC

https://g

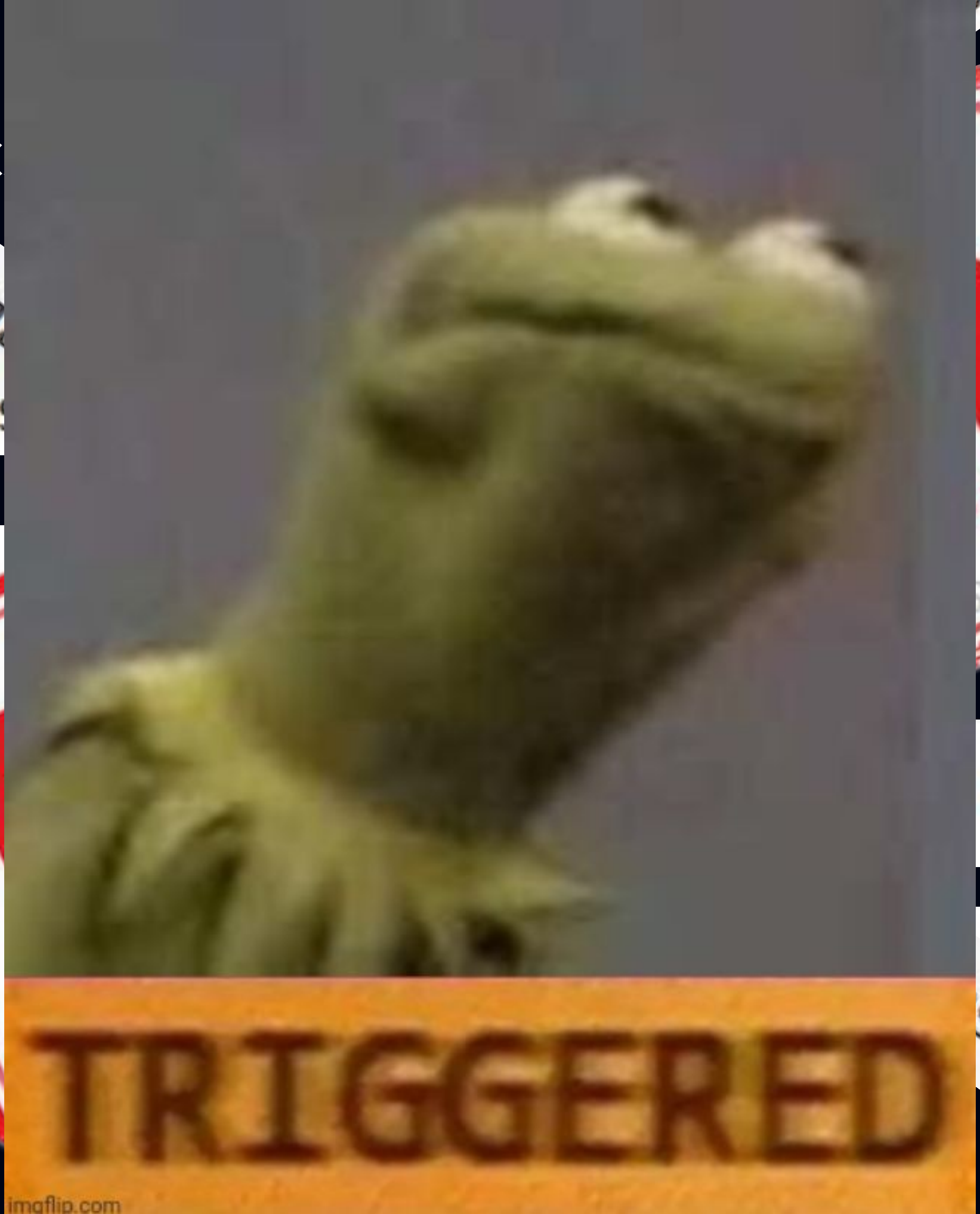
IoC - http

https://mediafire

2nd L

IoC

https://zdescarga



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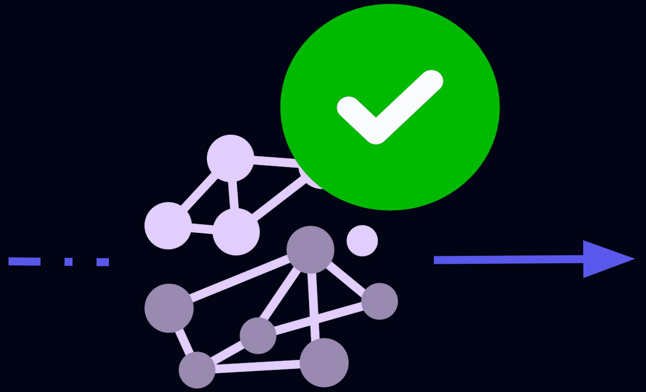
windows/descargar

seKey/

Getting out the trash

Discriminating IoCs



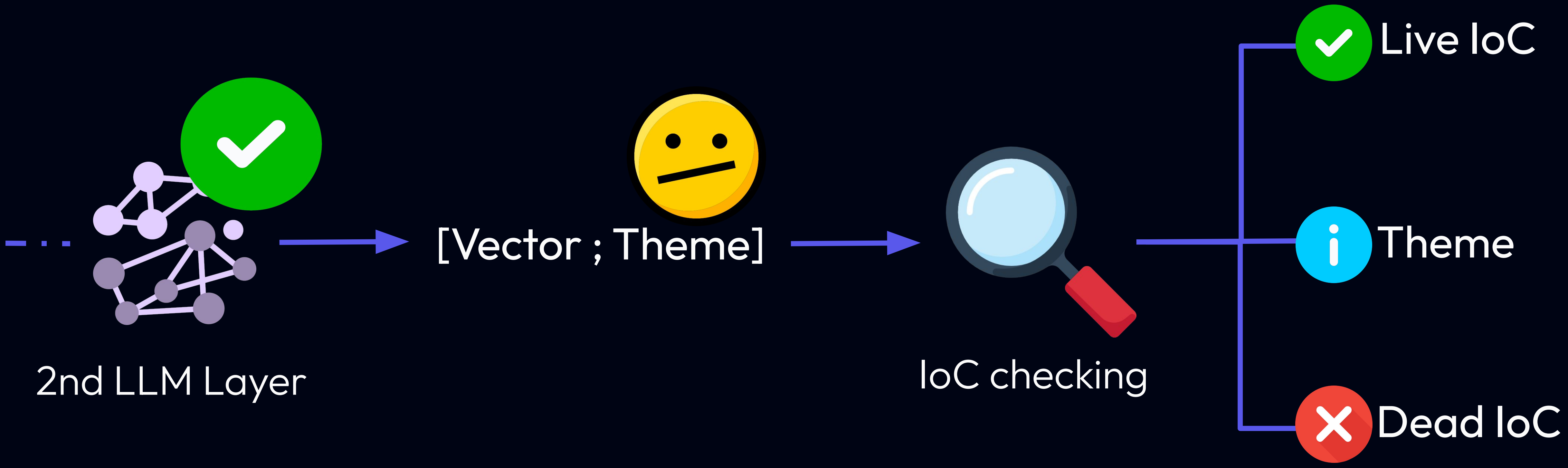
2nd LLM Layer

😐

[Vector ; Theme]

Getting out the trash

Discriminating IoCs



2nd LLM Layer

[Vector ; Theme]

IoC checking

Live IoC

Theme

Dead IoC

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Getting out the trash

Discriminating IoCs

IoC checking

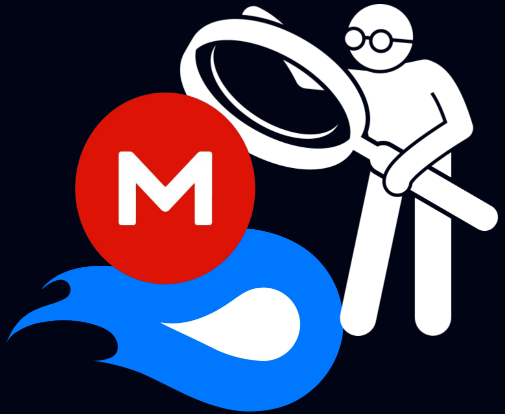
File sharing platforms

YouTube Videos

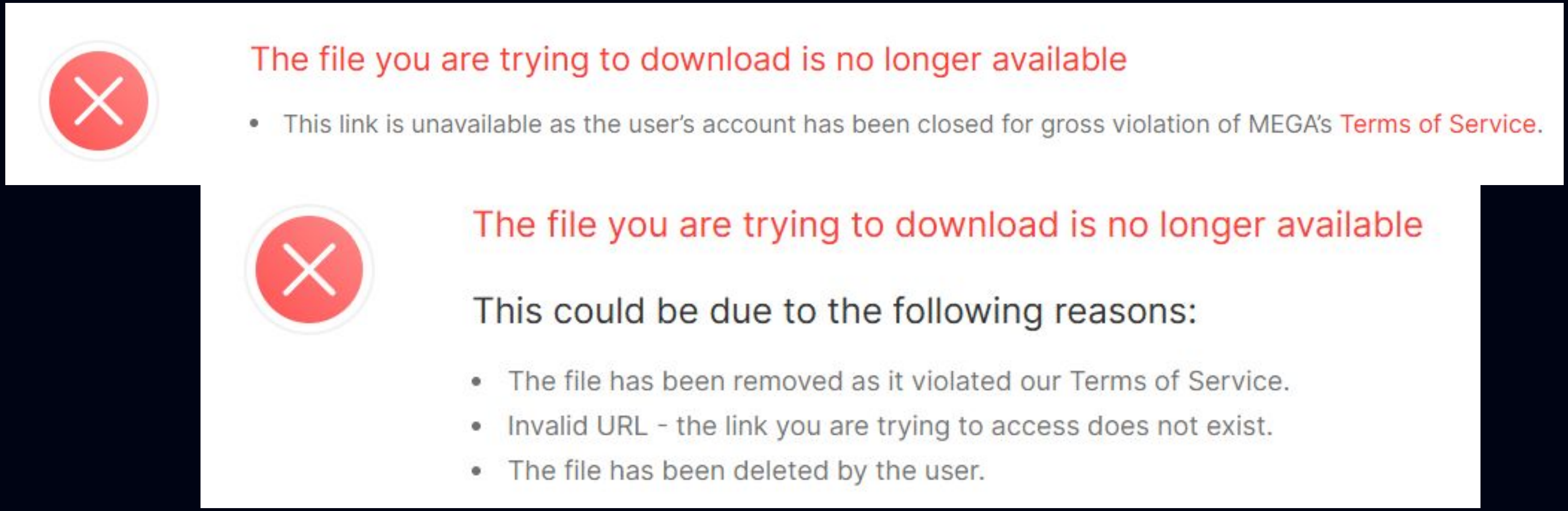
Others

Getting out the trash

Discriminating IoCs



IoC checking



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- The file has been removed as it violated our Terms of Service.
- Invalid URL - the link you are trying to access does not exist.
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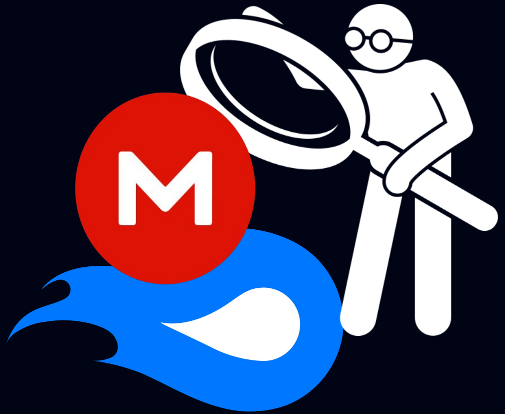
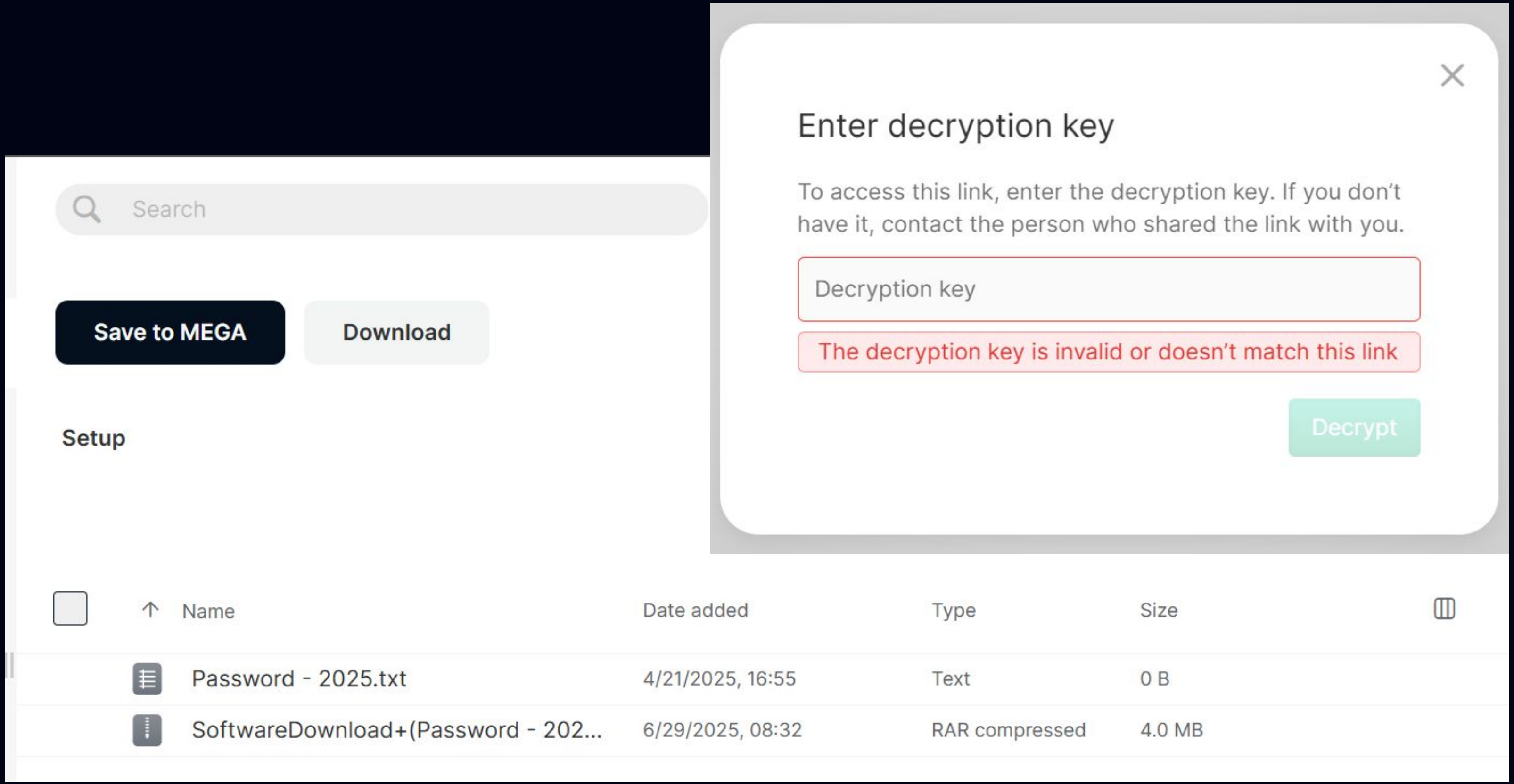
Dead IoC

Getting out the trash

Discriminating IoCs



IoC checking



Search

Save to MEGA

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Setup

Enter decryption key

To access this link, enter the decryption key. If you don't have it, contact the person who shared the link with you.

Decryption key

The decryption key is invalid or doesn't match this link

Decrypt

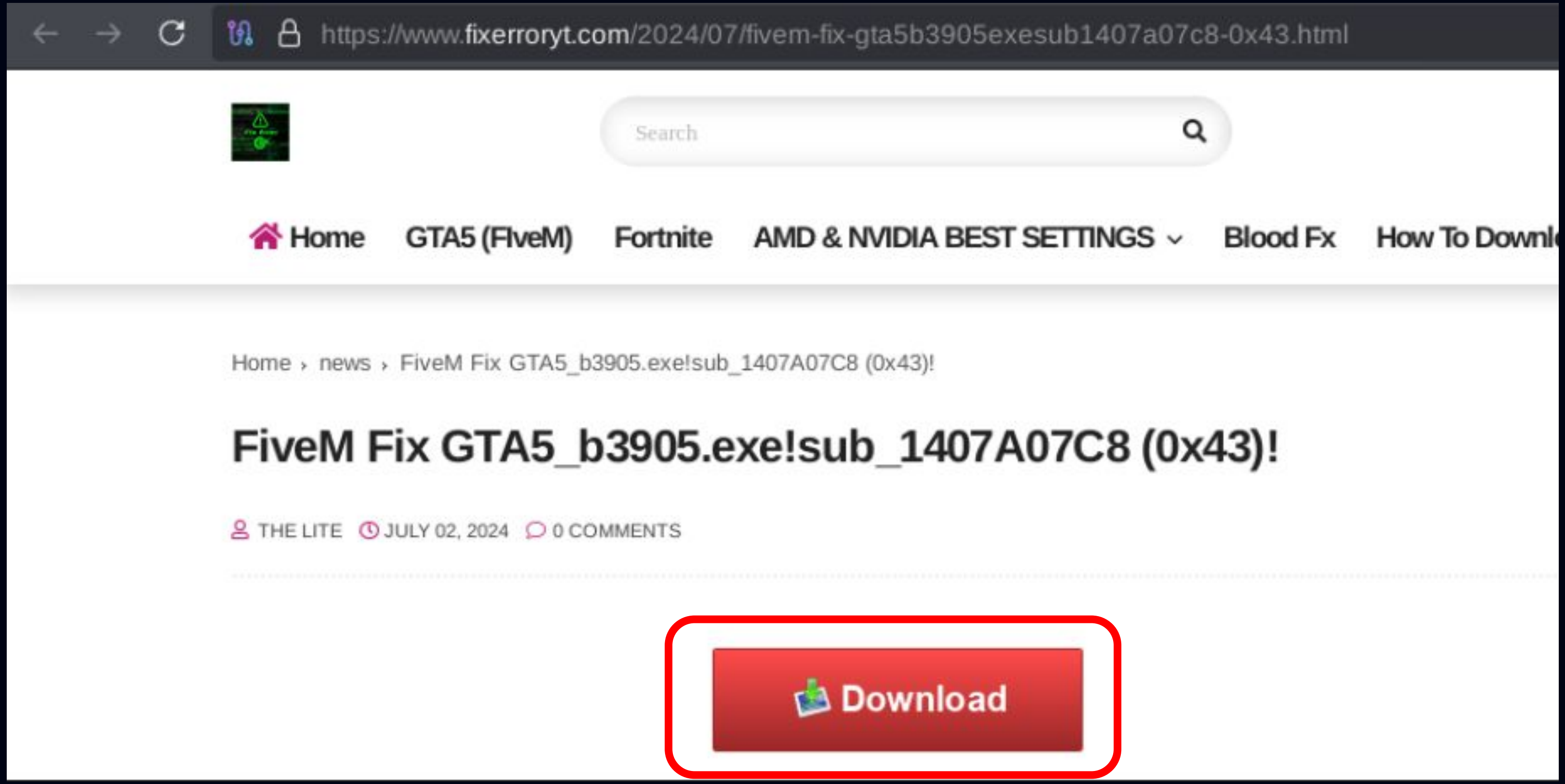
	Name	Date added	Type	Size
☐				
	Password - 2025.txt	4/21/2025, 16:55	Text	0 B
	SoftwareDownload+(Password - 202...	6/29/2025, 08:32	RAR compressed	4.0 MB

✓ Live IoC

Getting out the trash

Discriminating IoCs

IoC checking



https://www.fixerroryt.com/2024/07/fivem-fix-gta5b3905exesub1407a07c8-0x43.html

Search

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Home › news › FiveM Fix GTA5_b3905.exe!sub_1407A07C8 (0x43)!

FiveM Fix GTA5_b3905.exe!sub_1407A07C8 (0x43)!

THE LITE JULY 02, 2024 0 COMMENTS

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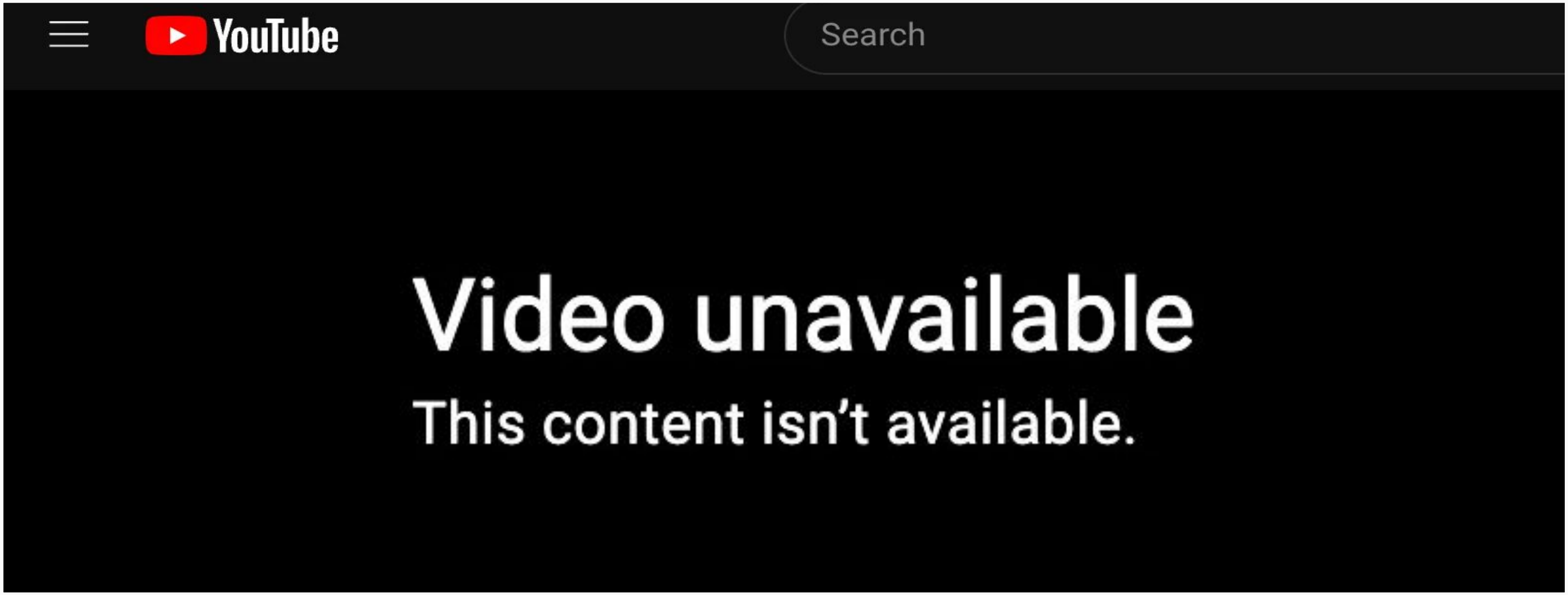
✓ Live IoC

Getting out the trash

Discriminating IoCs

IoC checking



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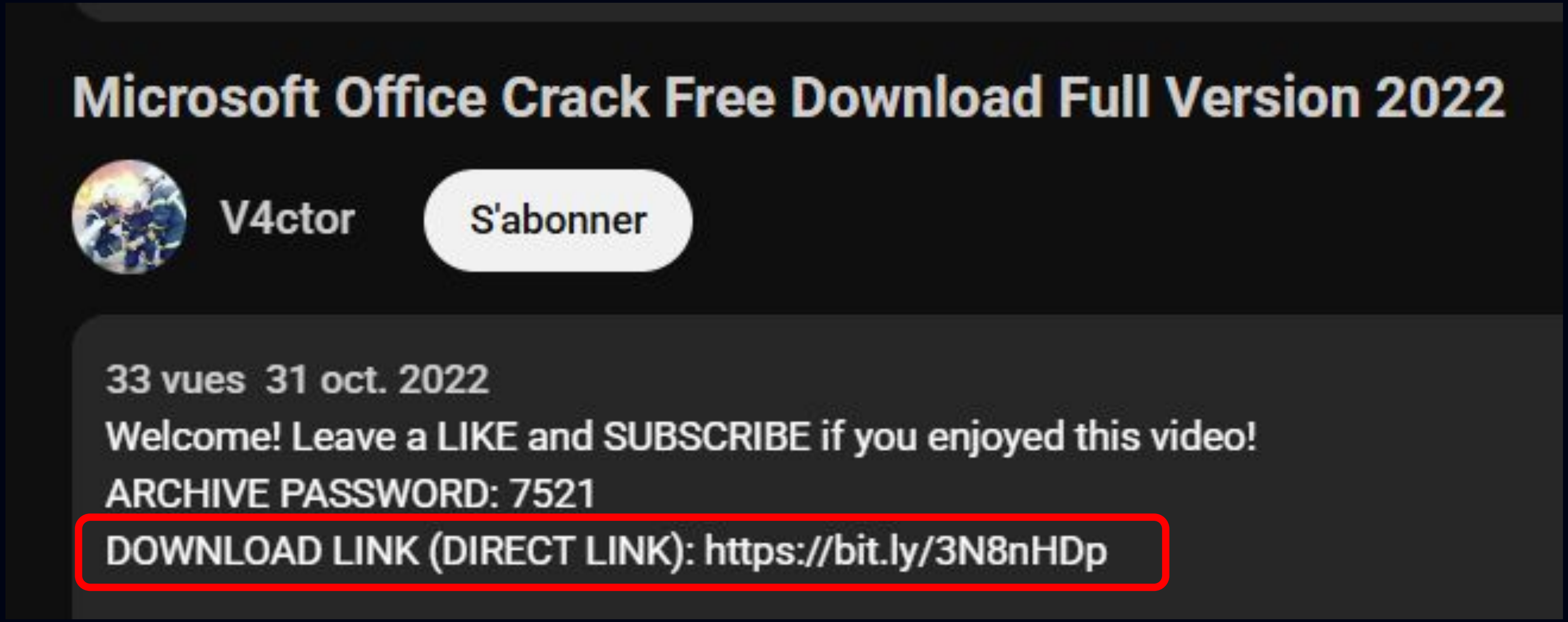
Dead IoC

Getting out the trash

Discriminating IoCs

IoC checking



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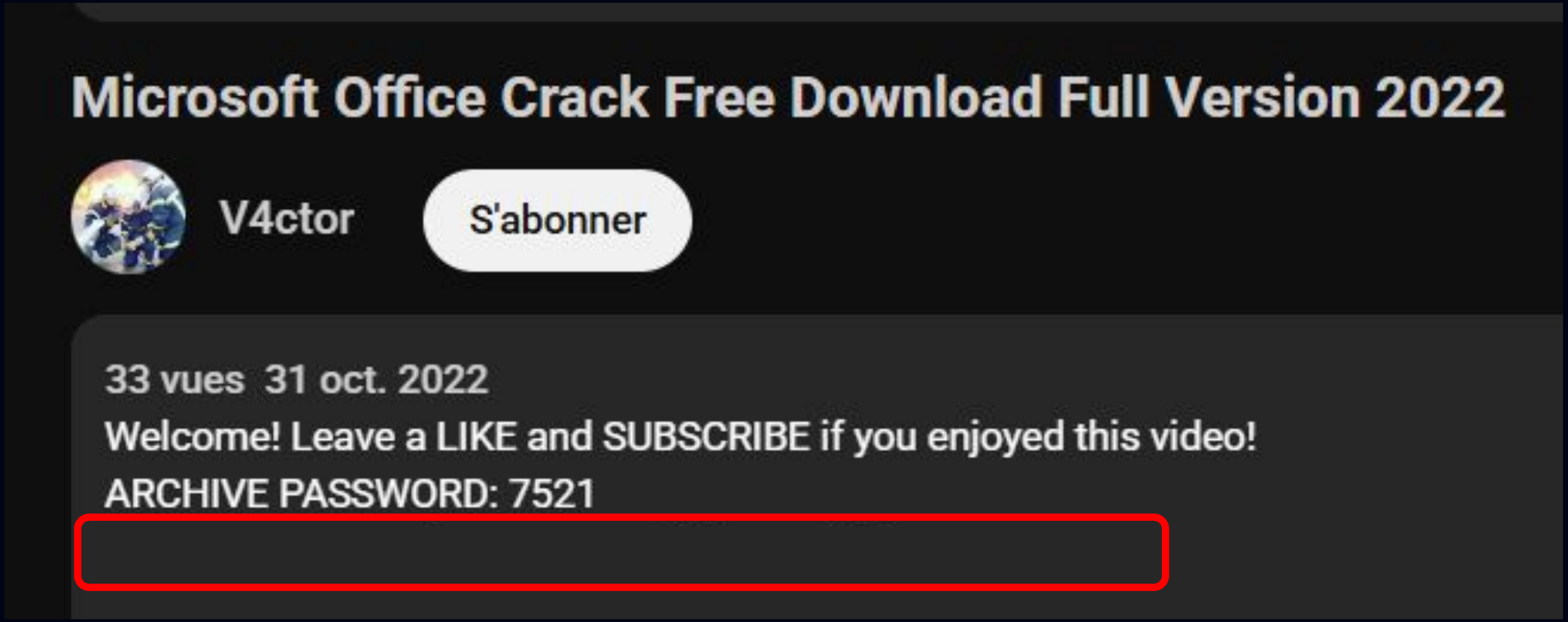
✓ Live IoC

Getting out the trash

Discriminating IoCs

IoC checking



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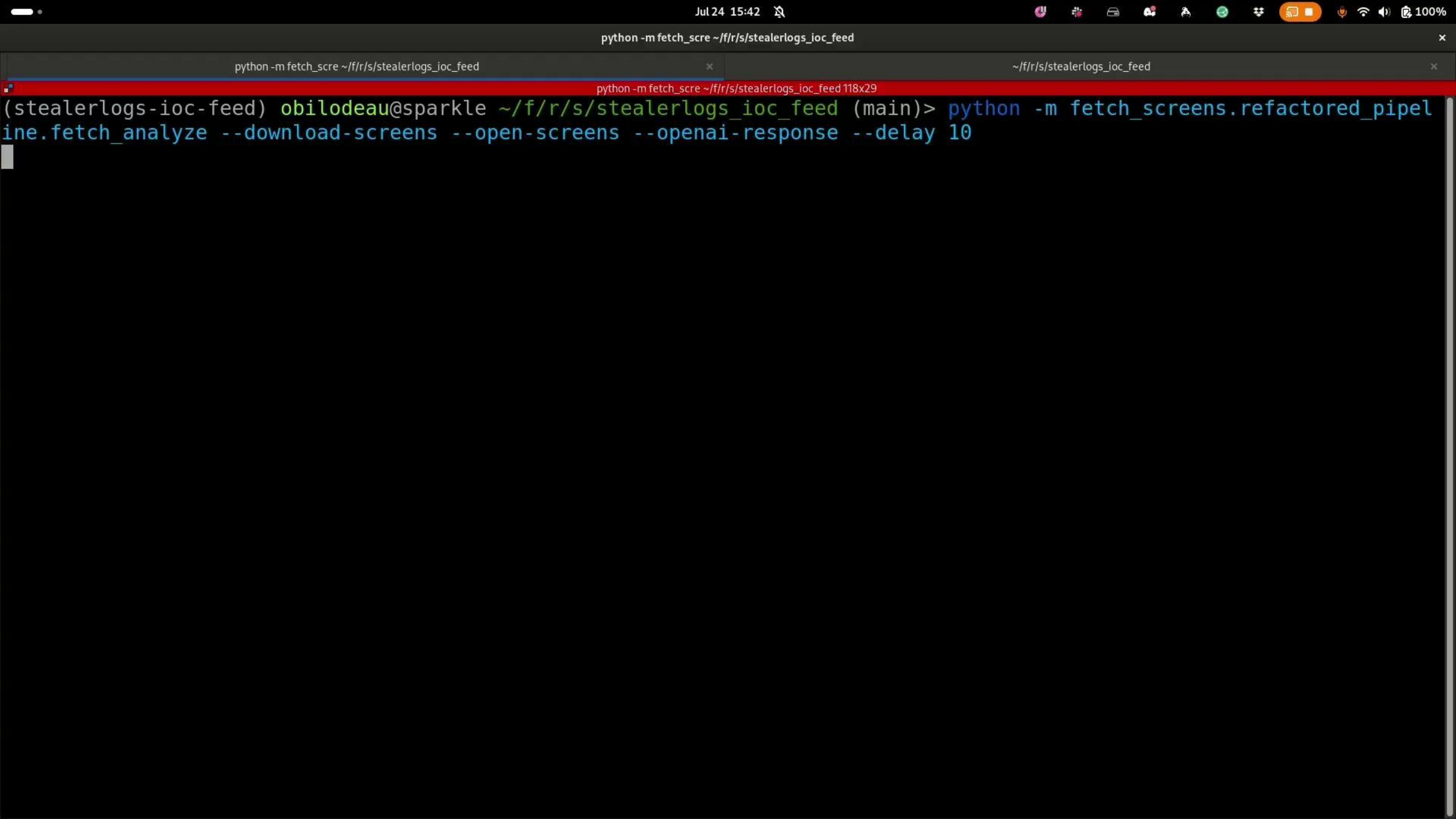
Theme

flare

DEMO


Jul 24 15:42
100%
python -m fetch_scre ~/f/r/s/stealerlogs_ioc_feed
python -m fetch_scre ~/f/r/s/stealerlogs_ioc_feed
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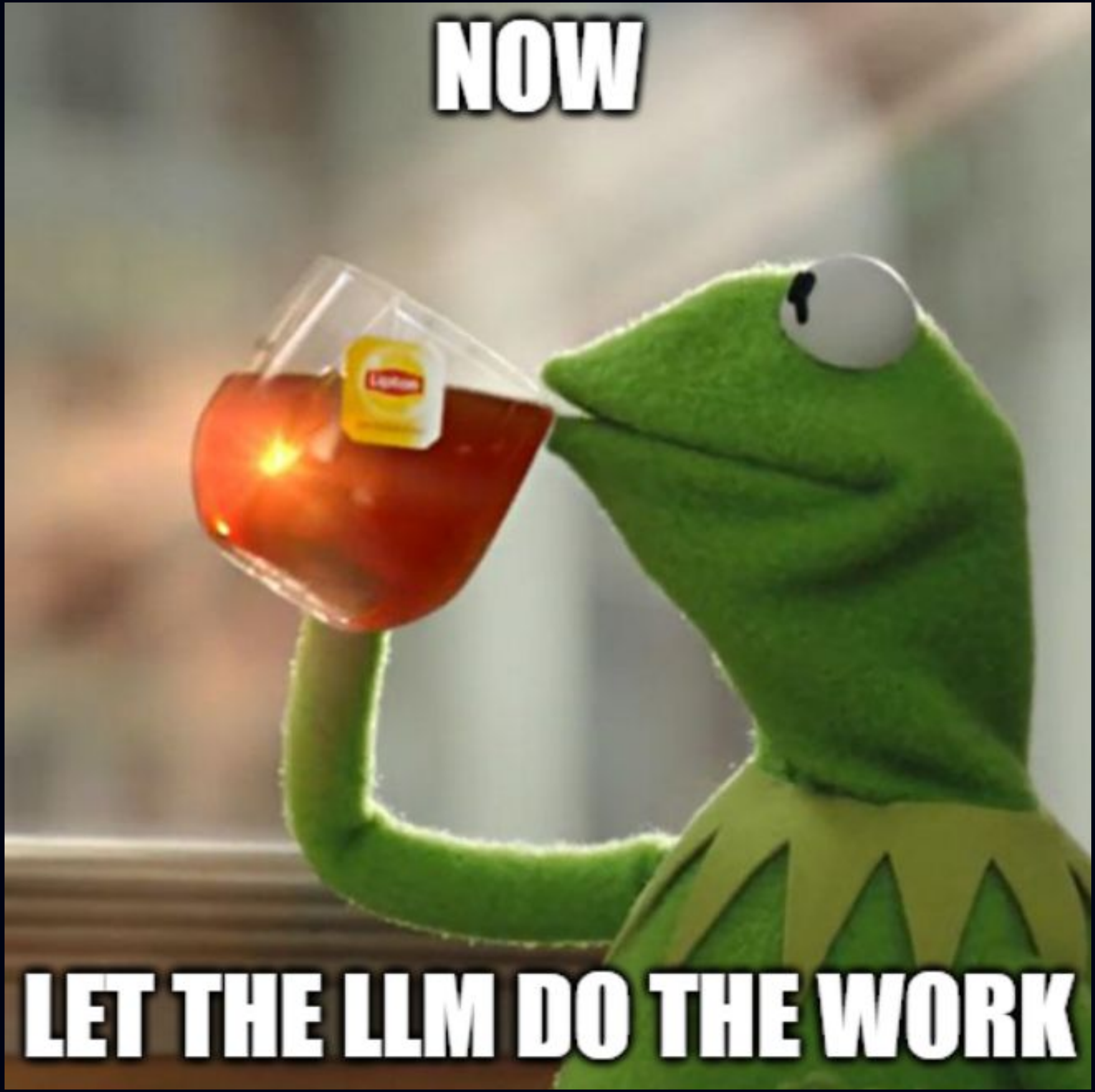
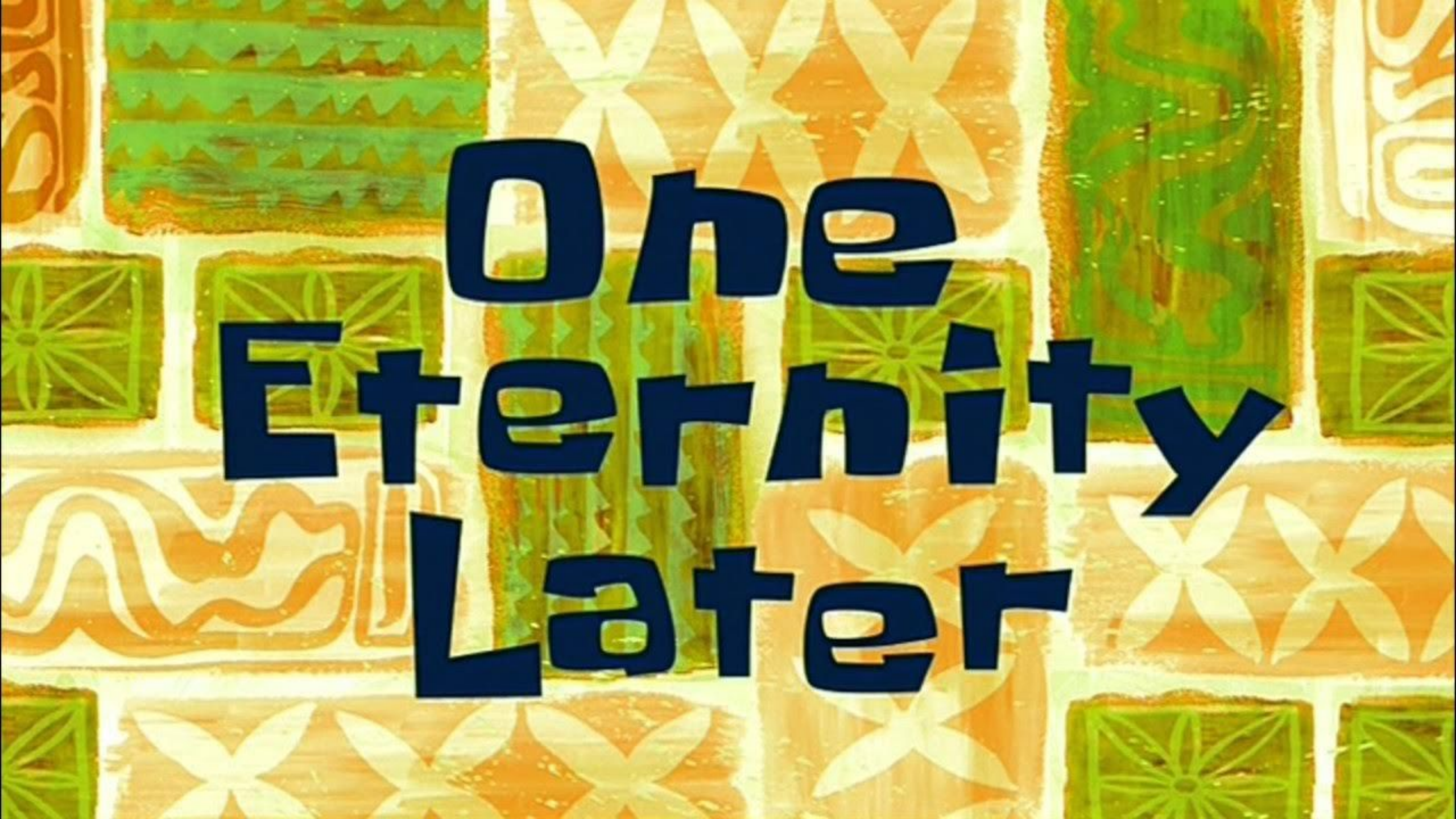
python -m fetch_scre ~/f/r/s/stealerlogs_ioc_feed 118x29

```
(stealerlogs-ioc-feed) obilodeau@sparkle ~/f/r/s/stealerlogs_ioc_feed (main)> python -m fetch_screens.refactored_pipel
ine.fetch_analyze --download-screens --open-screens --openai-response --delay 10
```


NOW
LET THE LLM DO THE WORK



One
Eternity
Later

Agenda

1. The Information Stealer Malware Phenomenon
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Lure Themes - Cracked Software

Lure Themes - Cracked Software

Office

$$$

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Infostealer Playbook

Lure Themes

Paying $150 for lifetime access to a secure, legitimate license from a globally recognized corporation.
Free_Microsoft_Office_Crack.rar

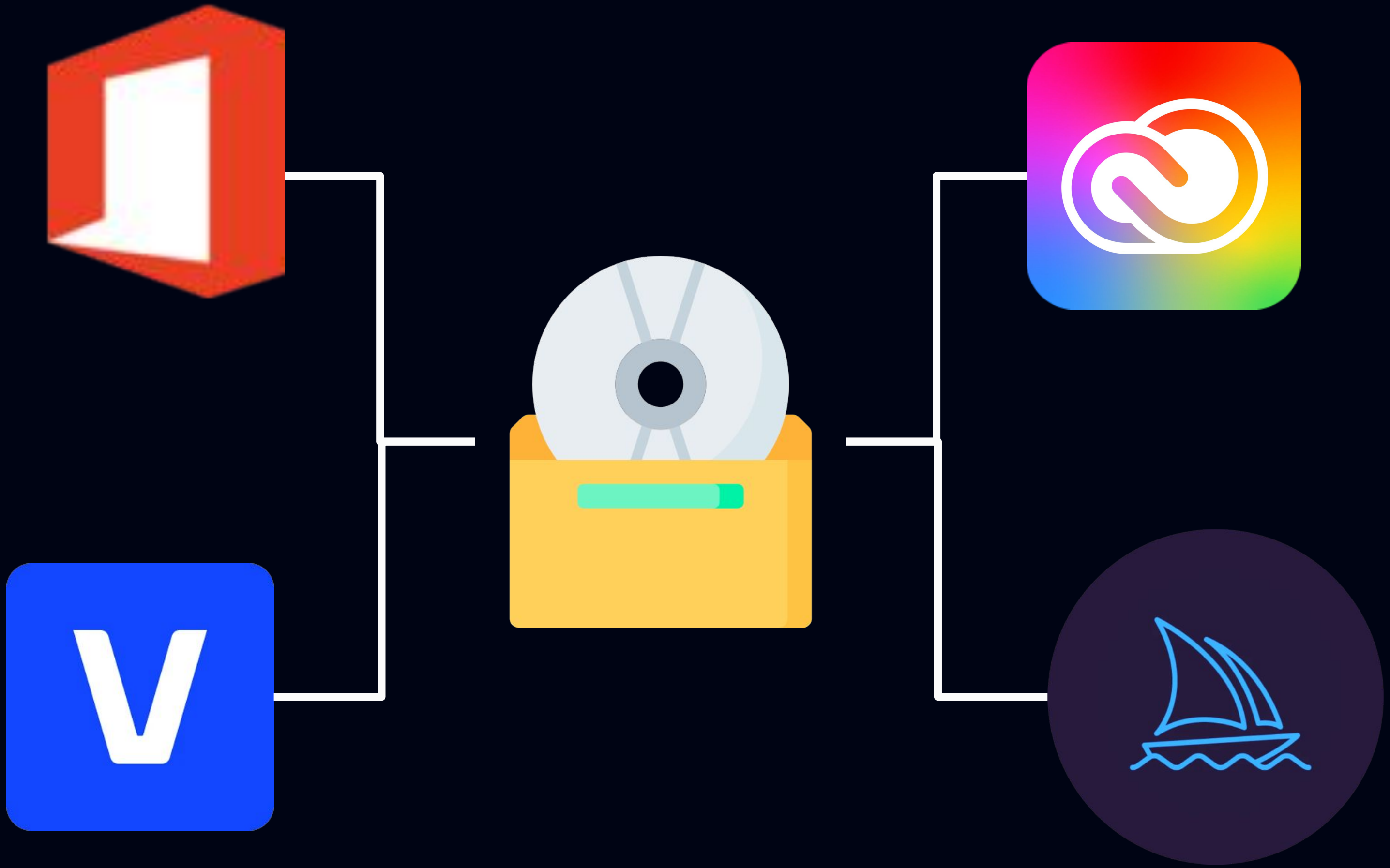
ce
ked

Lure Themes - Cracked Software

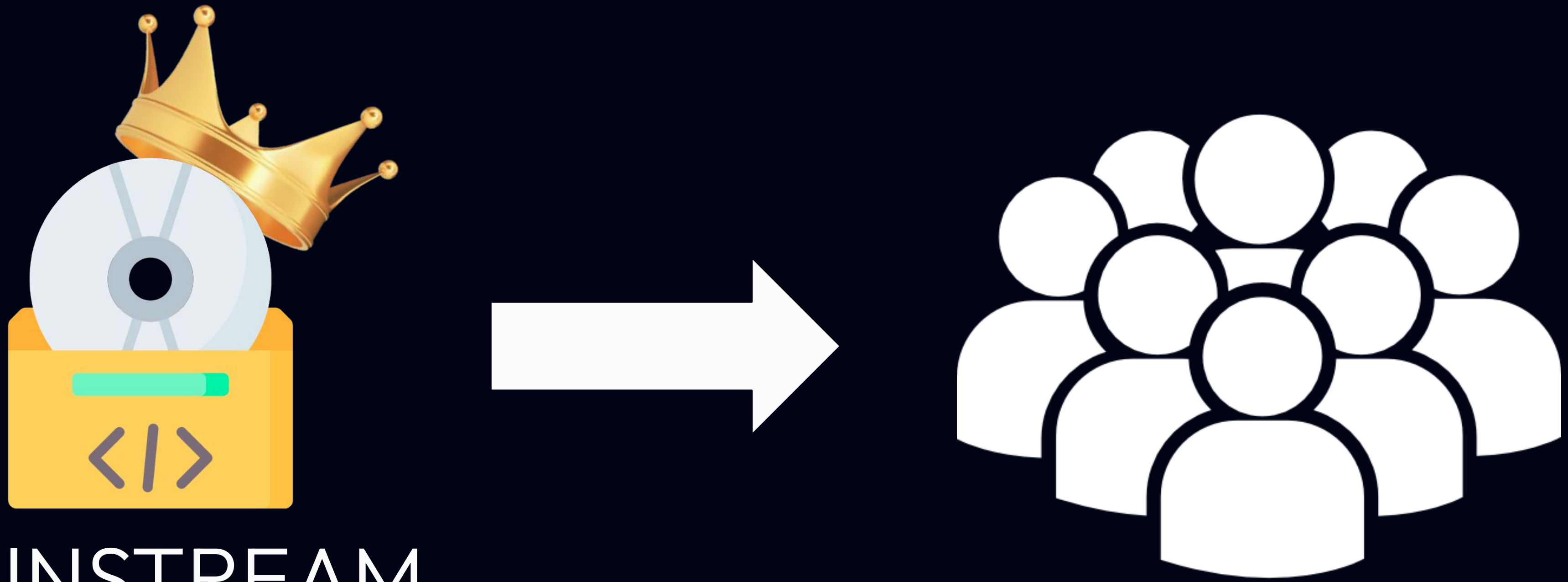
Threat actors prey on users' willingness to bypass legitimate licensing fees at the cost of their own security

Infostealer Playbook

Lure Themes - Cracked Software



Lure Themes - Cracked Software



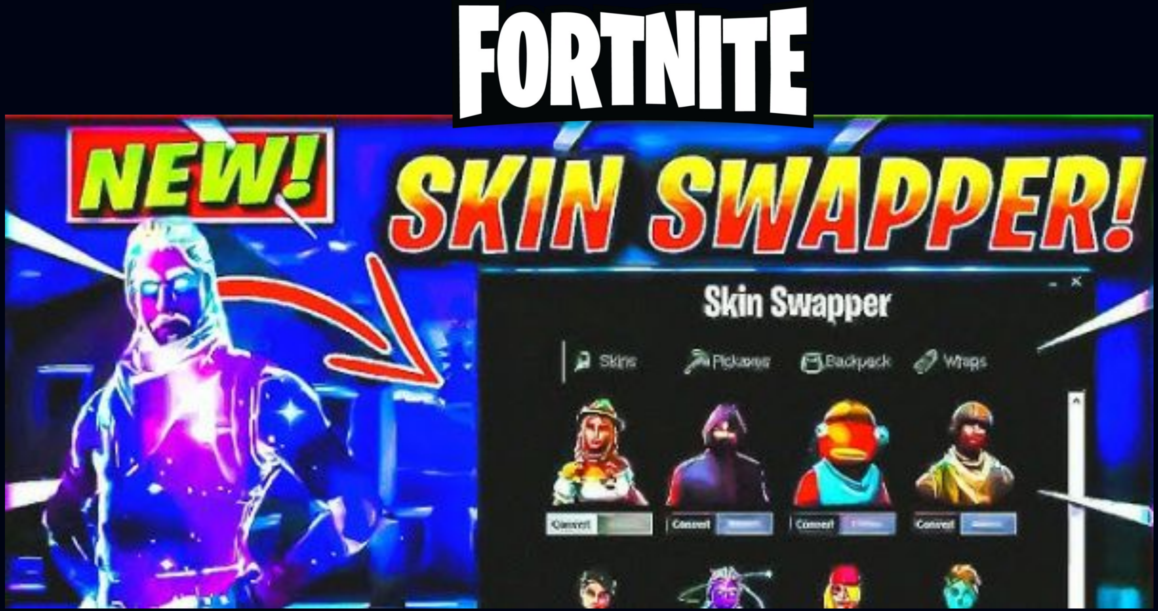
MAINSTREAM

Infostealer Playbook - Lure Themes

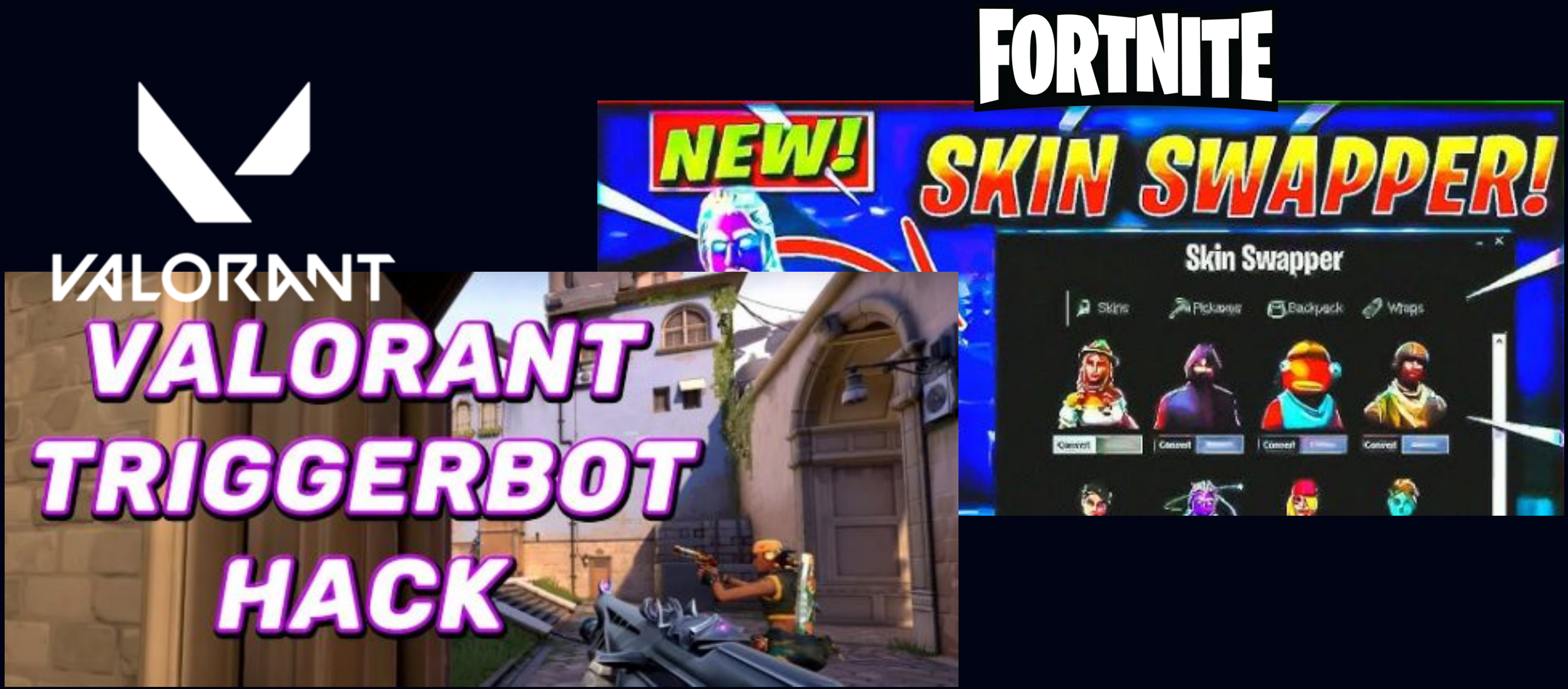
Targeting mainstream products ensures large pool of potential victims

Lure Themes - Gaming Cheats & Mods

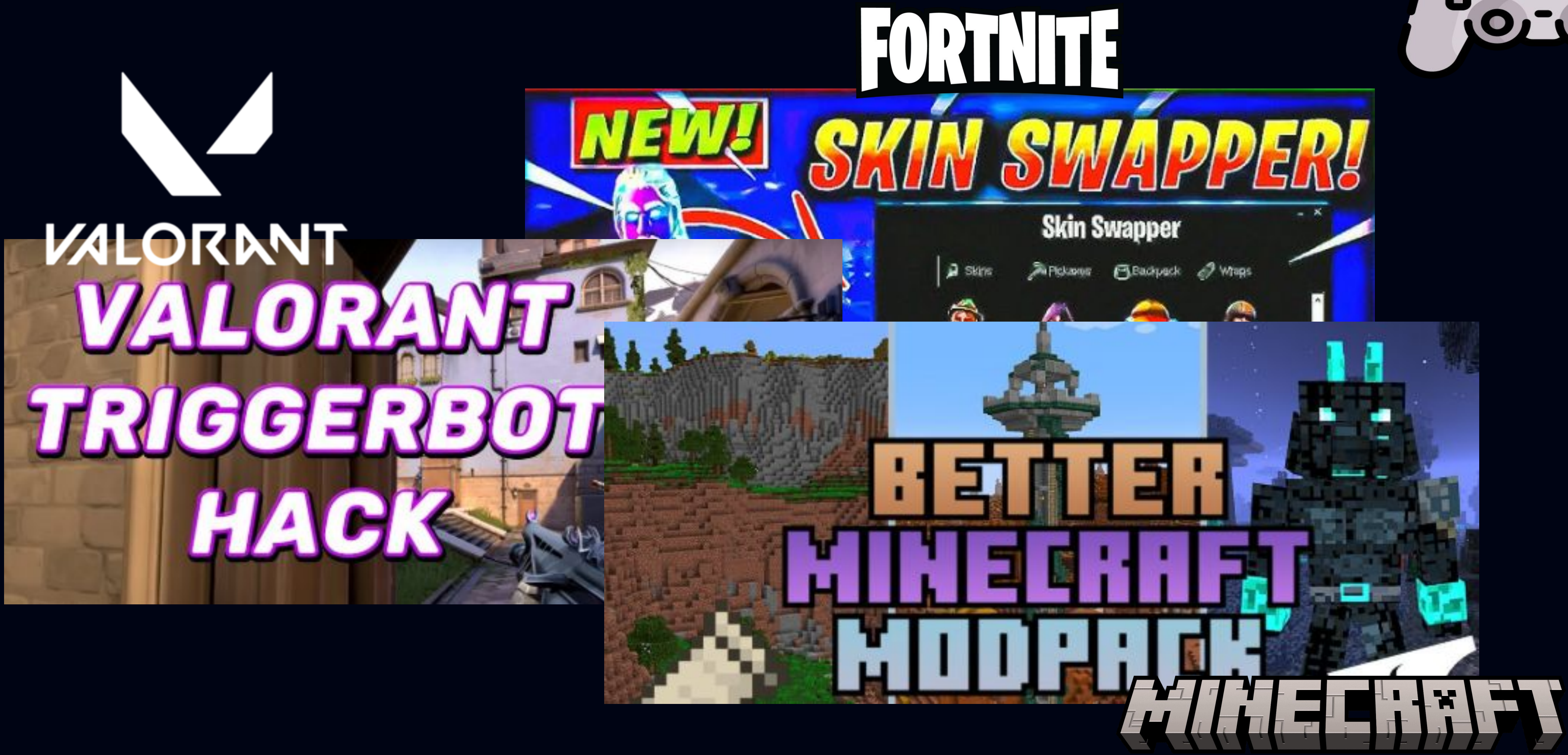
Lure Themes - Gaming Cheats & Mods



Lure Themes - Gaming Cheats & Mods



Lure Themes - Gaming Cheats & Mods



Lure Themes - Gaming Cheats & Mods

Skins

Weapons

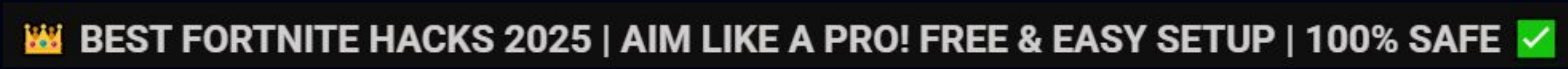
Mods

Lure Themes

If it's free and shady, you're likely the victim

Distribution Strategies -
YouTube as a Distribution System

Distribution Strategies - YouTube as a Distribution System



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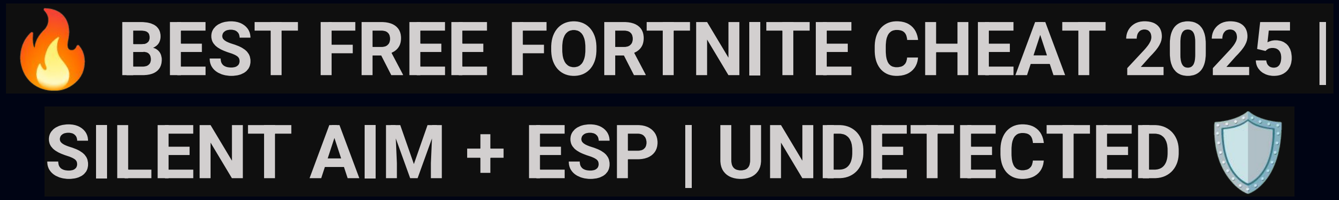

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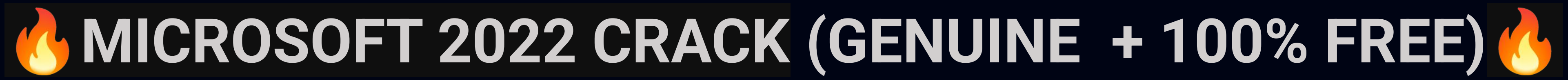
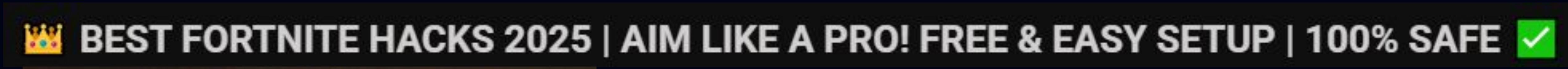


🔥MICROSOFT 2022 CRACK (GENUINE + 100% FREE)🔥

Distribution Strategies - YouTube as a Distribution System



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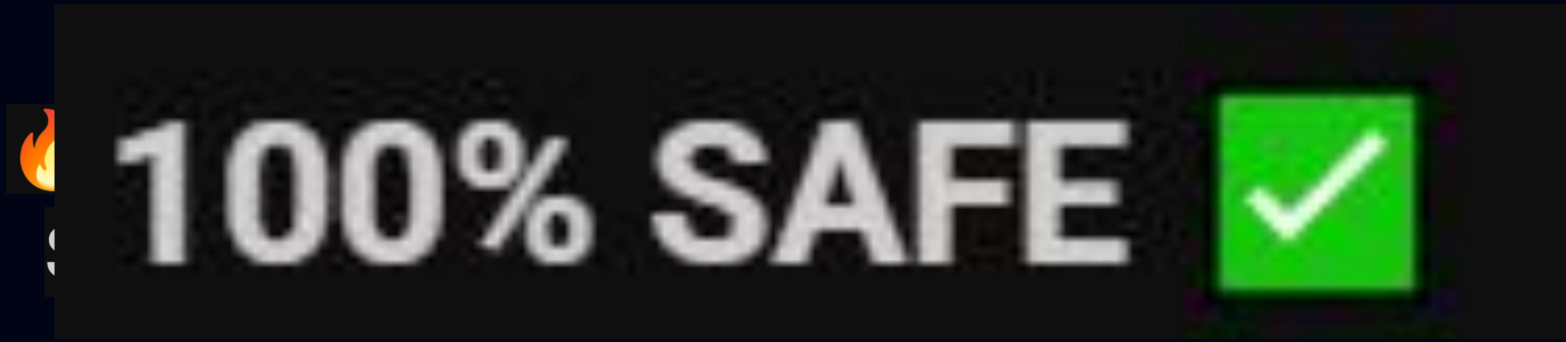
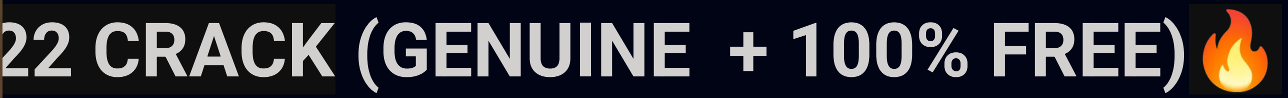
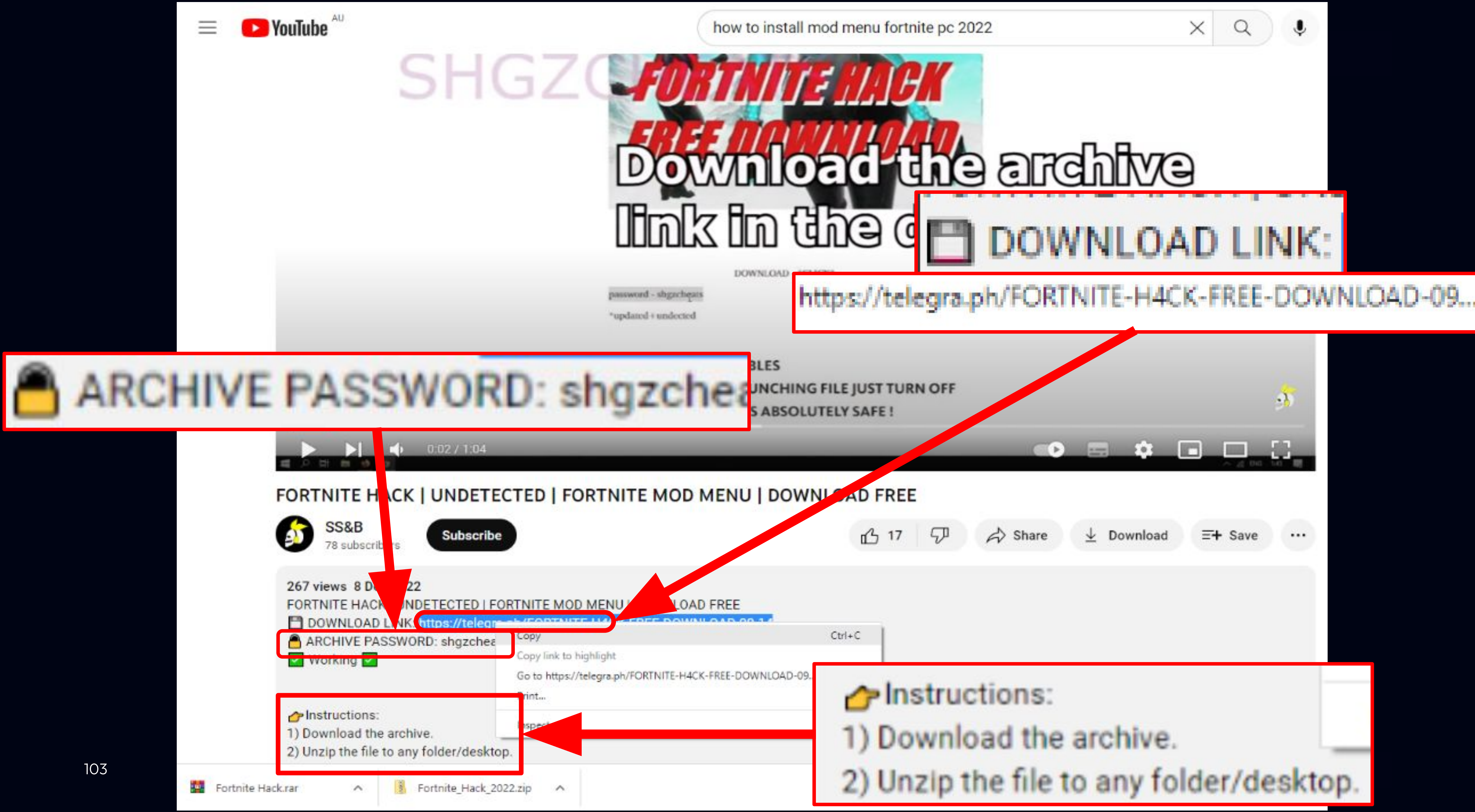


100% SAFE ✅



22 CRACK (GENUINE + 100% FREE)🔥



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🔒 ARCHIVE PASSWORD: shgzchea

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267 views 8 D 22

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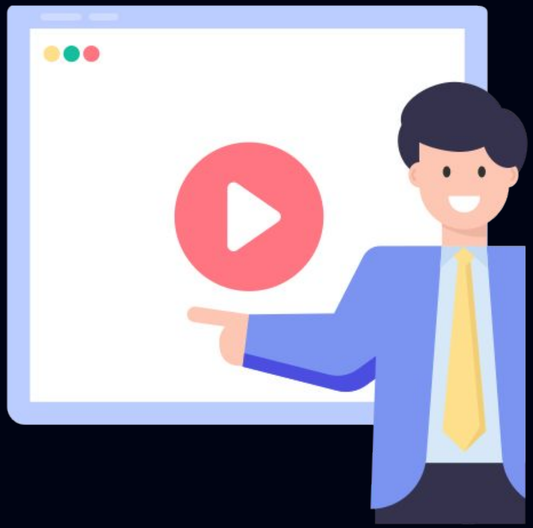
✅ Working ✅

👉 Instructions:

1) Download the archive.

2) Unzip the file to any folder/desktop.

Distribution Strategies - YouTube as a Distribution System



It is free

It works

Disabling antivirus is needed & safe

Distribution Strategies - YouTube as a Distribution System

It is free

It works

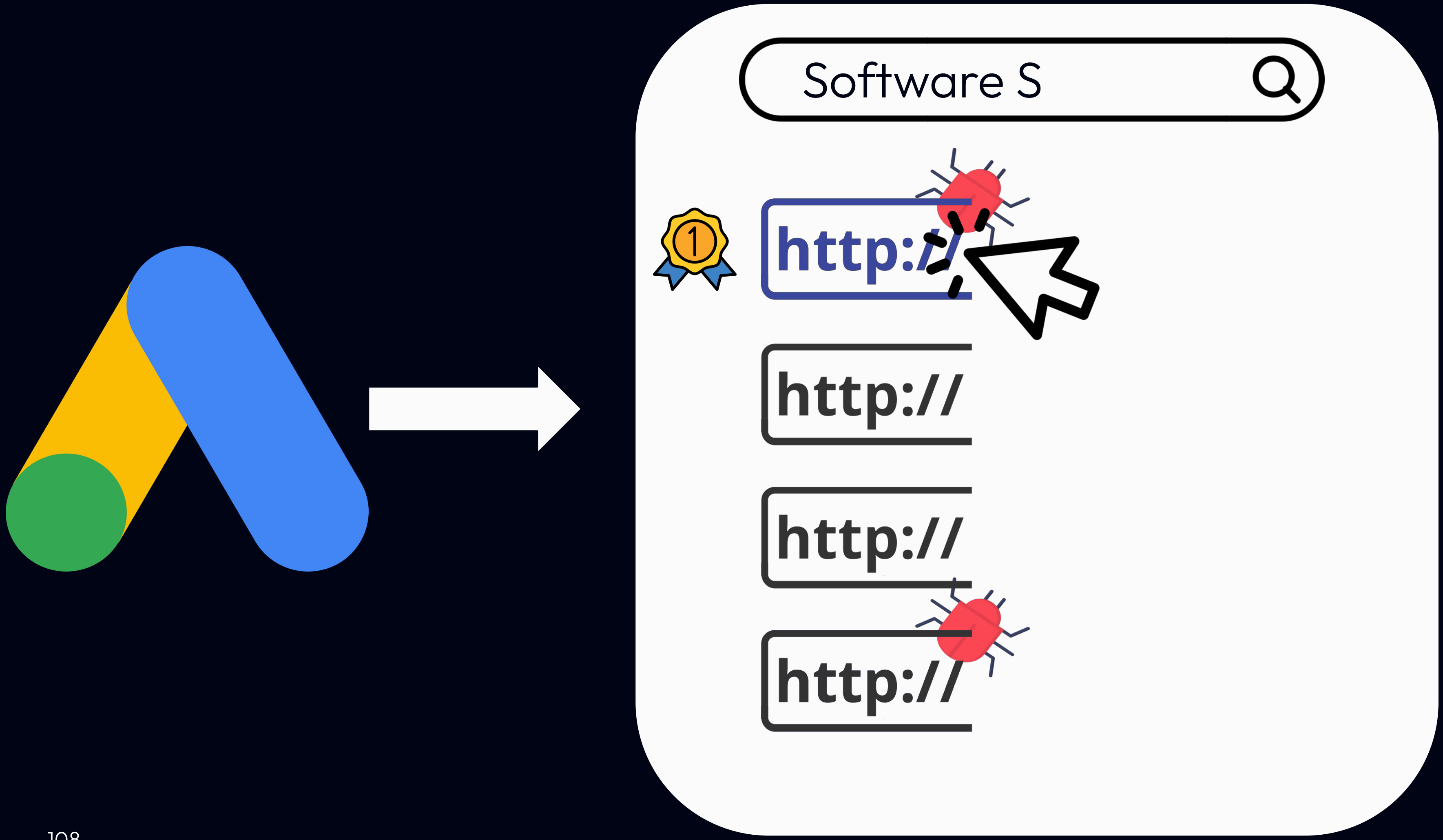
Disabling antivirus is needed & safe

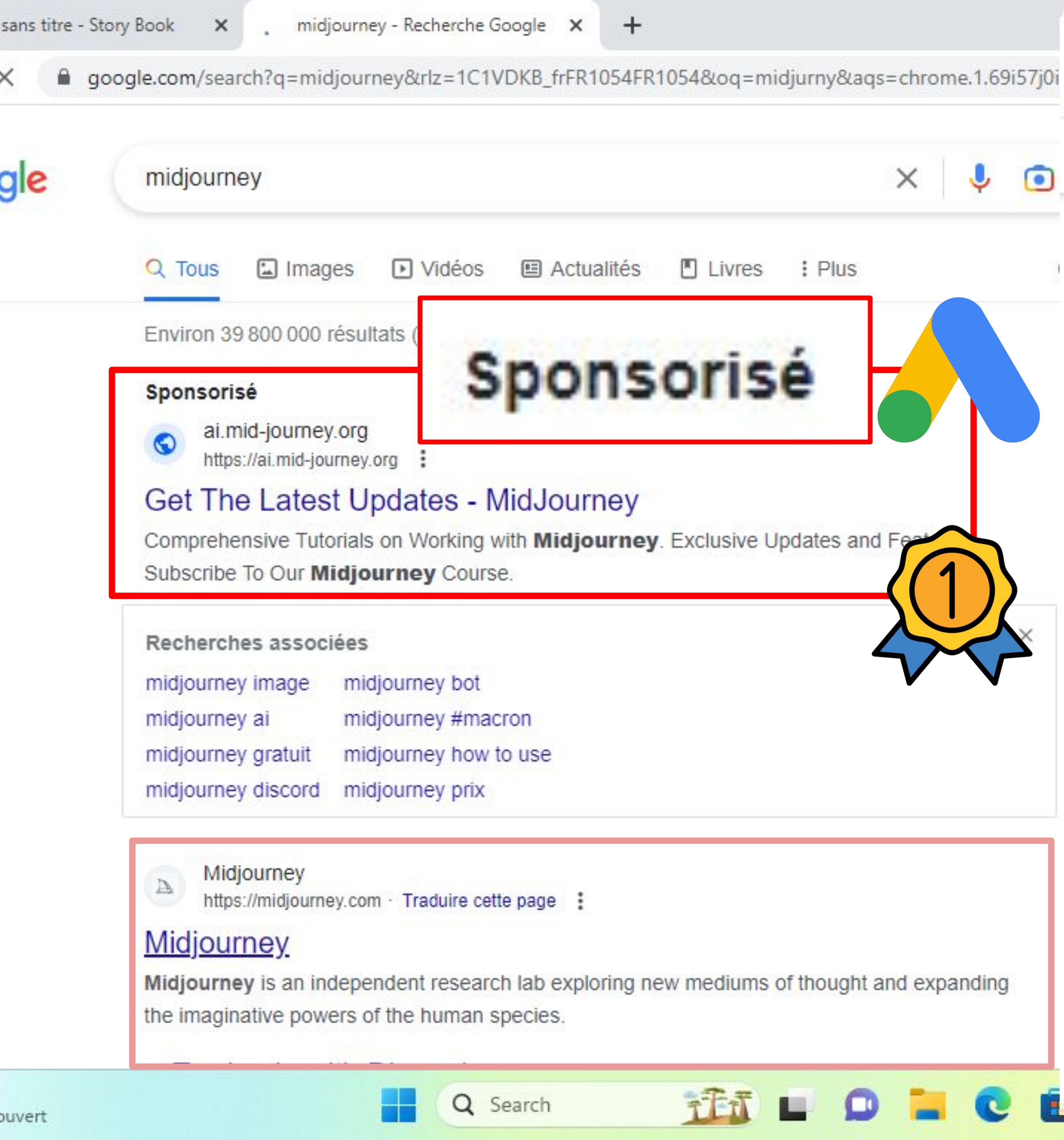
Distribution Strategies - YouTube as a Distribution System

YouTube's reach and tutorial-driven-content make it the perfect launchpad for infostealer malware

Distribution Strategies - Google Ads

Distribution Strategies - Leveraging Google Ads

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midjourney - Recherche Google
google.com/search?q=midjourney&rlz=1C1VDKB_frFR1054FR1054&oq=midjurny&aqs=chrome.1.69i57j0i
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ai.mid-journey.org
https://ai.mid-journey.org

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Recherches associées

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Midjourney
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Midjourney

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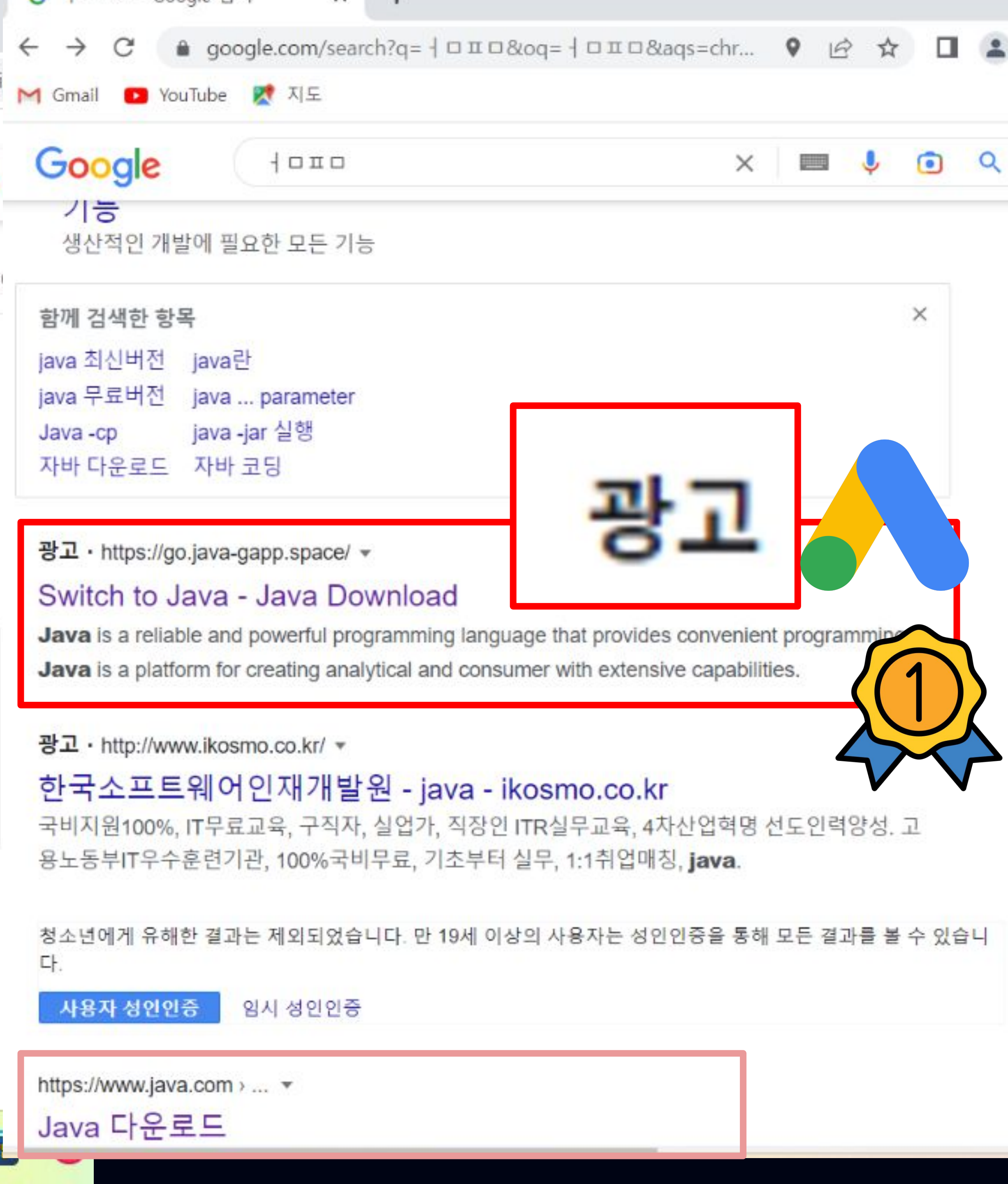


기능
생산적인 개발에 필요한 모든 기능

함께 검색한 항목

java 최신버전	java란
java 무료버전	java ... parameter
Java -cp	java -jar 실행
자바 다운로드	자바 코딩

광고 · https://go.java-gapp.space/

Switch to Java - Java Download

Java is a reliable and powerful programming language that provides convenient programmin
Java is a platform for creating analytical and consumer with extensive capabilities.

광고 · http://www.ikosmo.co.kr/

한국소프트웨어인재개발원 - java - ikosmo.co.kr

국비지원100%, IT무료교육, 구직자, 실업가, 직장인 ITR실무교육, 4차산업혁명 선도인력양성. 고용노동부IT우수훈련기관, 100%국비무료, 기초부터 실무, 1:1취업매칭, **java**.

청소년에게 유해한 결과는 제외되었습니다. 만 19세 이상의 사용자는 성인인증을 통해 모든 결과를 볼 수 있습니다.

https://www.java.com › ...

Java 다운로드

Distribution Strategies - Leveraging Google Ads

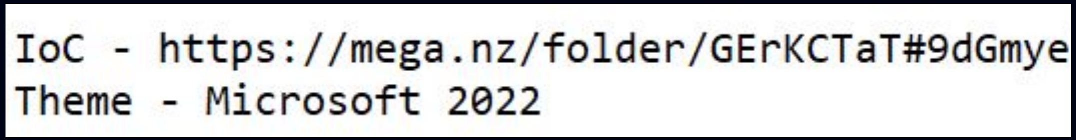
Google Ads give threat actors a fast lane to users’ trust — by placing malicious content where users expect safety: at the top.

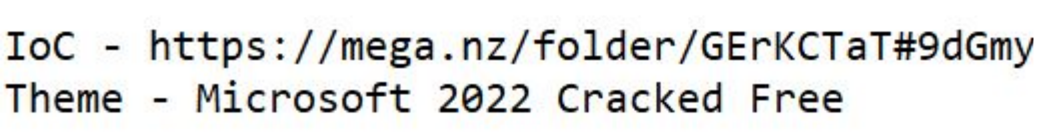
Agenda

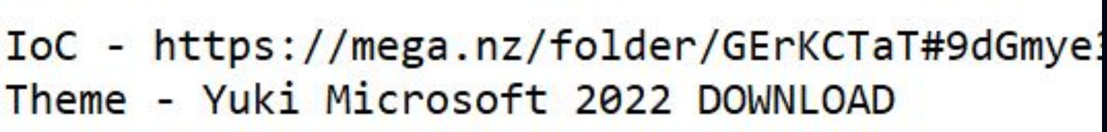
1. The Information Stealer Malware Phenomenon
2. Mid-Heist Selfies
3. The LLM Pipeline
4. Prompt Engineering
5. LLM Assessment
6. Discriminating IoCs
7. Inside the Infostealer Playbook
8. Successful Campaigns: 2 Case Studies
9. Strength and Limits
10. Conclusion

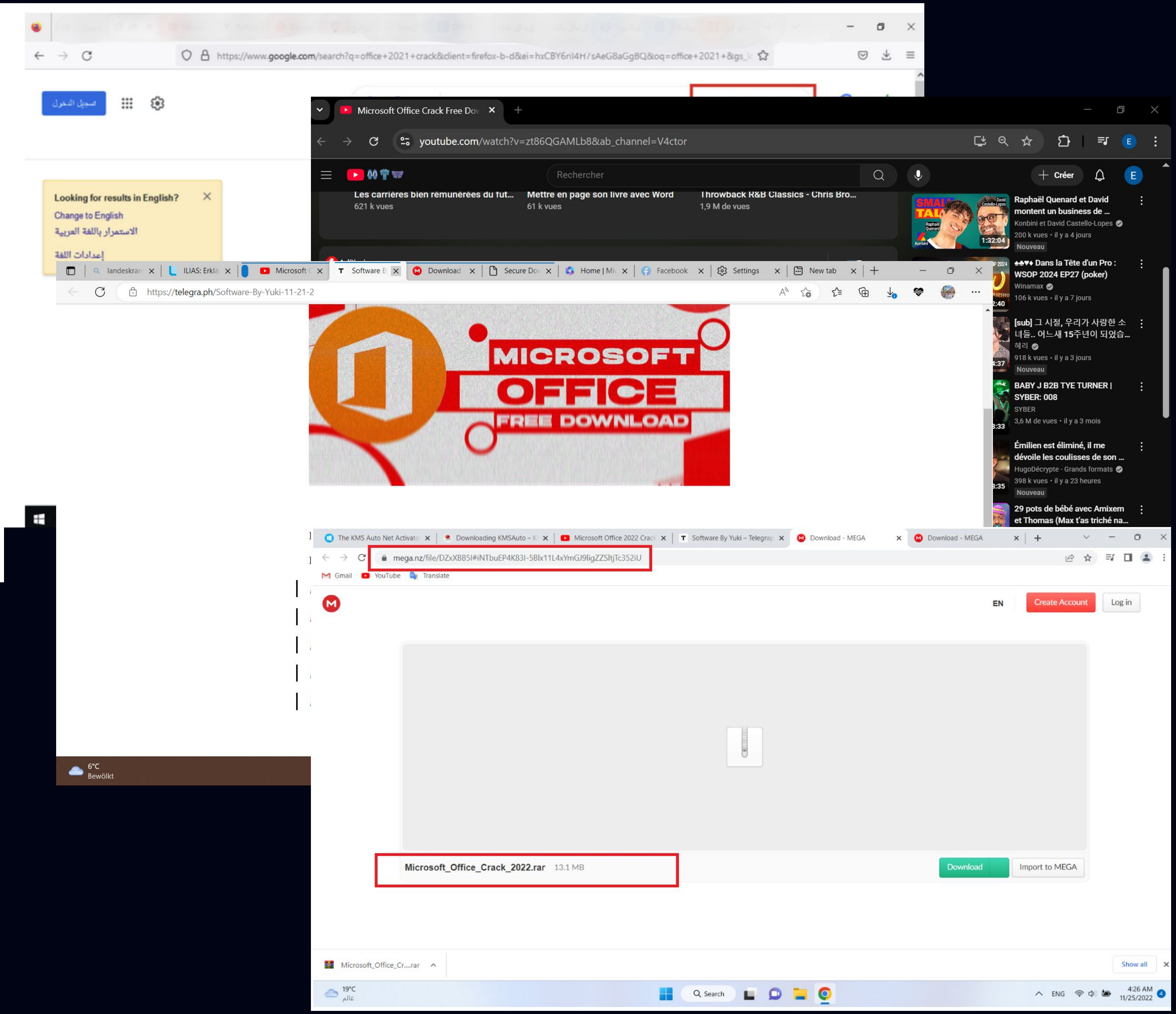
Infostealer Playbook

Successful Campaigns: ~~3~~ 2 Case Studies


IoC - https://mega.nz/folder/GErKCTaT#9dGmye
Theme - Microsoft 2022


IoC - https://mega.nz/folder/GErKCTaT#9dGmy
Theme - Microsoft 2022 Cracked Free


IoC - https://mega.nz/folder/GErKCTaT#9dGmye
Theme - Yuki Microsoft 2022 DOWNLOAD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Blitz Java

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MidJ0urney

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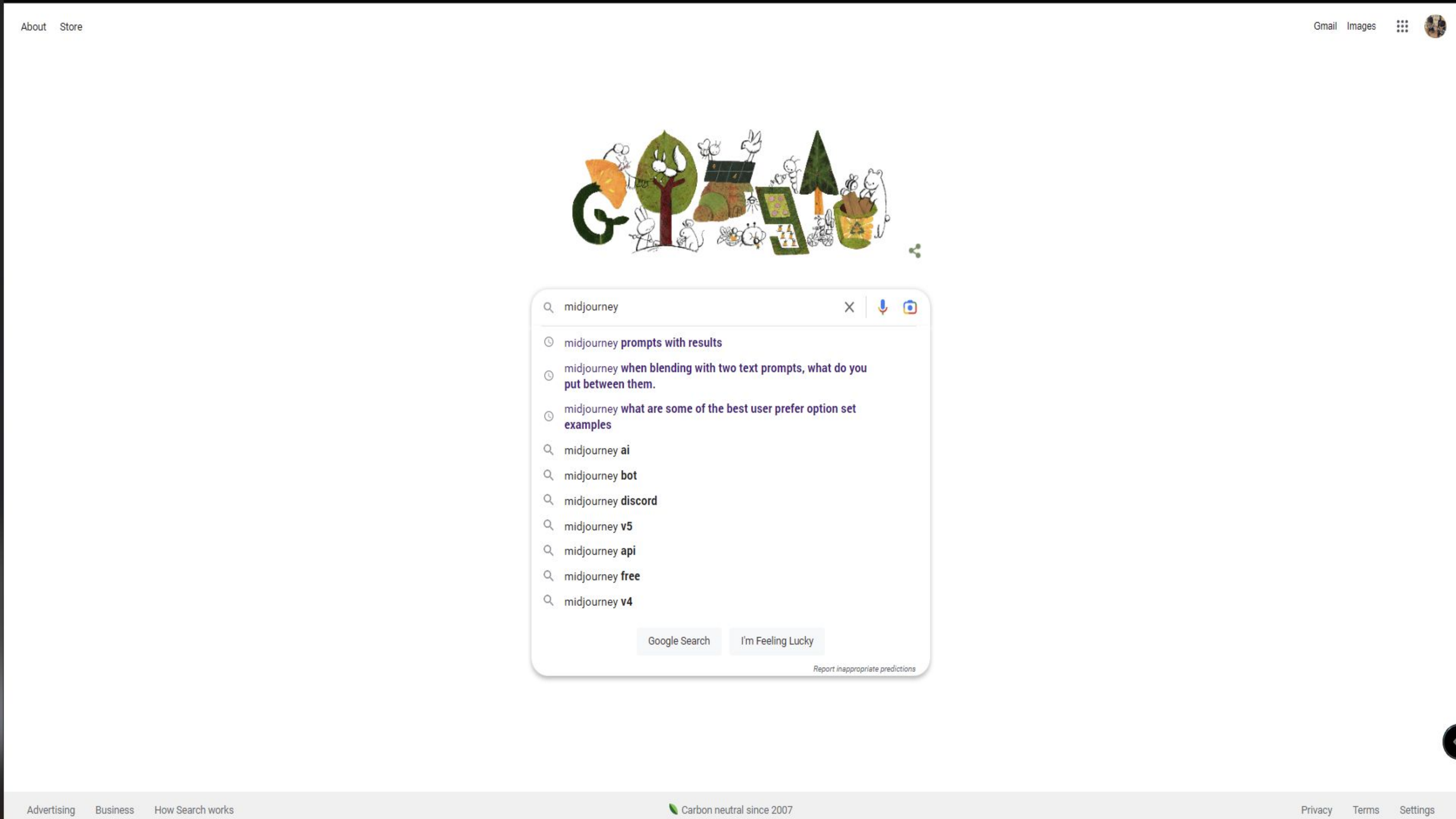
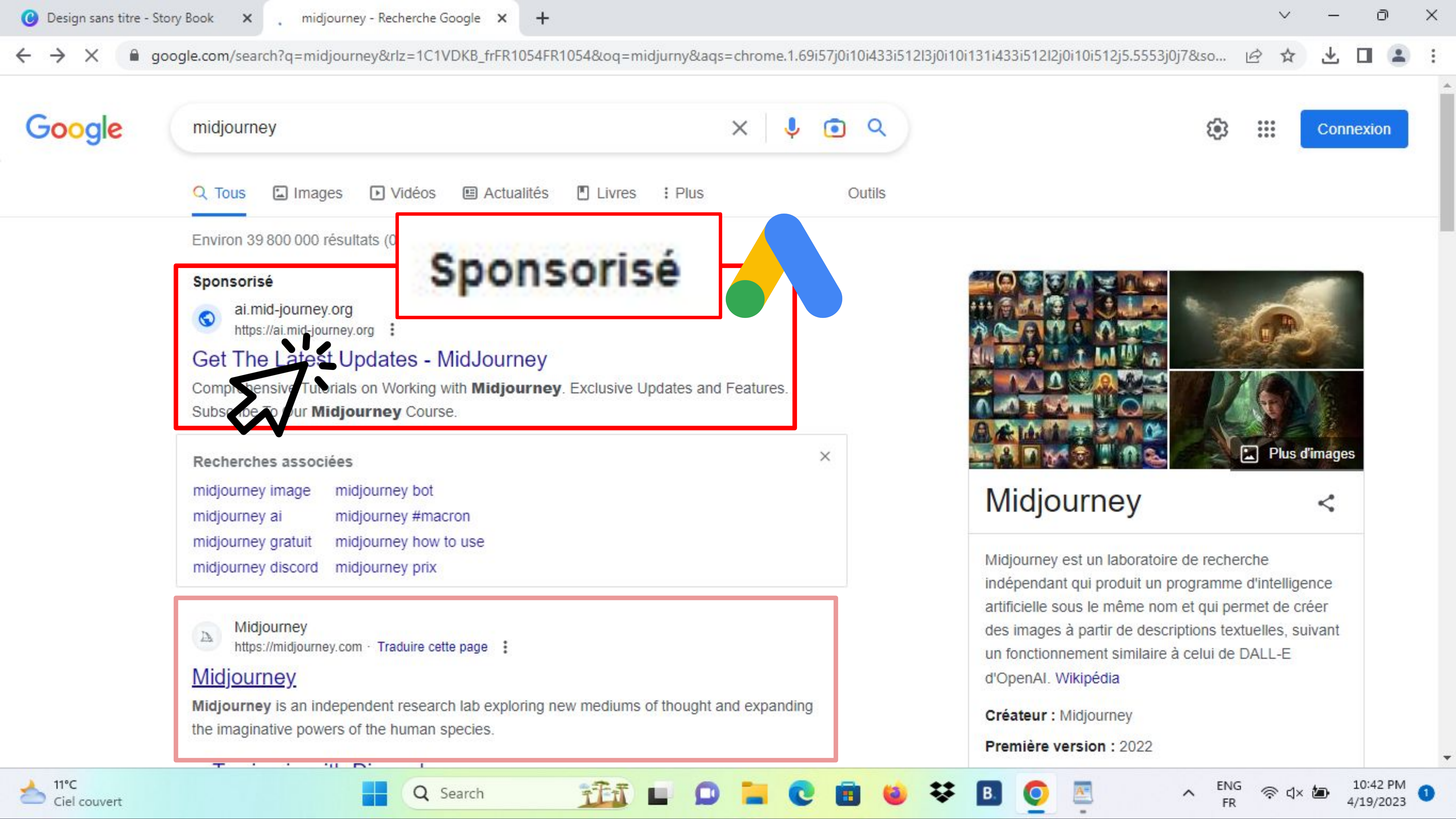


midjourney

- midjourney **prompts with results**
- midjourney **when blending with two text prompts, what do you put between them.**
- midjourney **what are some of the best user prefer option set examples**
- midjourney **ai**
- midjourney **bot**
- midjourney **discord**
- midjourney **v5**
- midjourney **api**
- midjourney **free**
- midjourney **v4**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midjourney - Recherche Google
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midjourney gratuit	midjourney how to use
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Midjourney

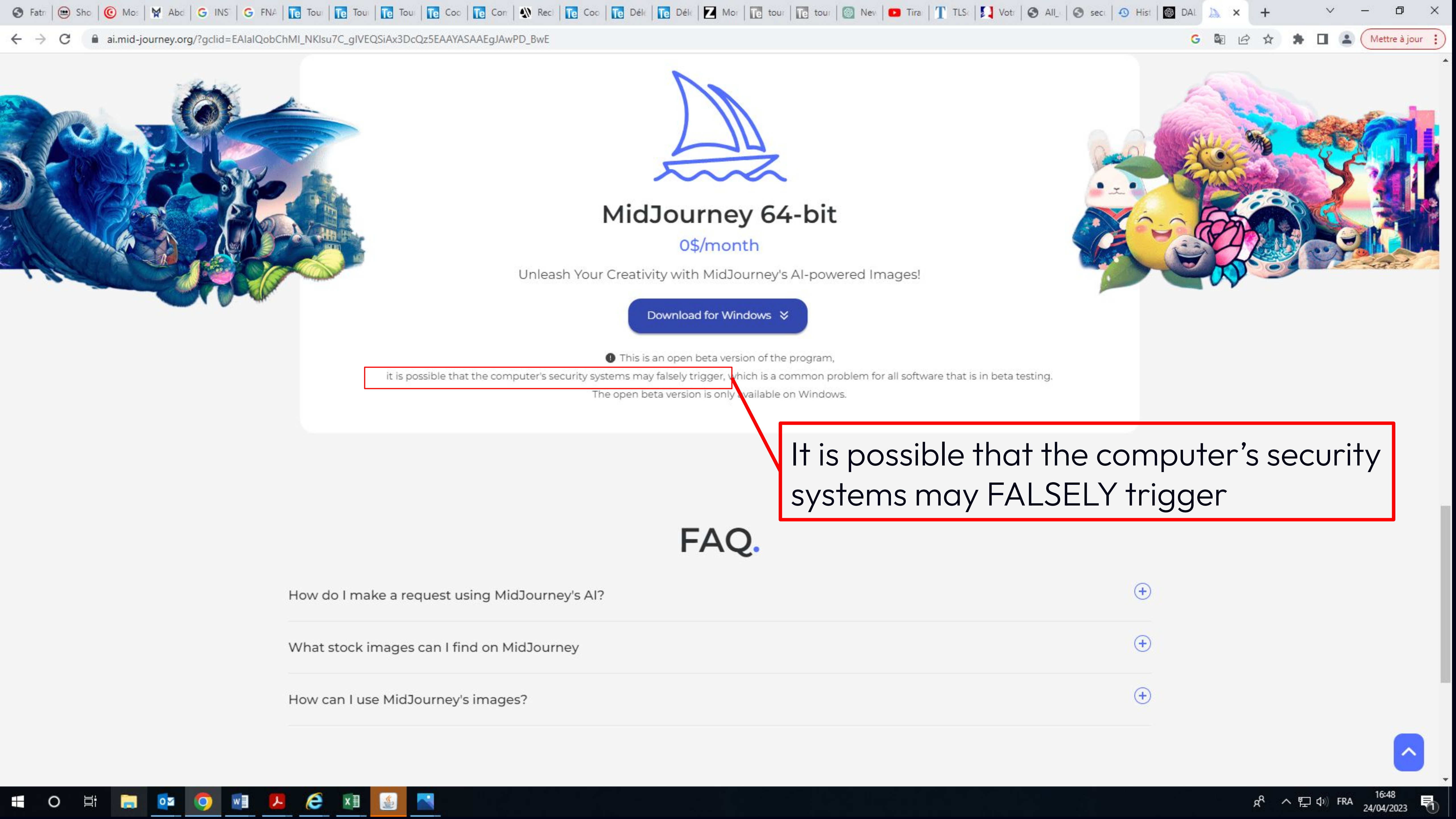
Midjourney is an independent research lab exploring new mediums of thought and expanding the imaginative powers of the human species.

Midjourney

Midjourney est un laboratoire de recherche indépendant qui produit un programme d'intelligence artificielle sous le même nom et qui permet de créer des images à partir de descriptions textuelles, suivant un fonctionnement similaire à celui de DALL-E d'OpenAI. Wikipédia

Créateur : Midjourney

Première version : 2022


ai.mid-journey.org/?gclid=EAIaIQobChMI_NKIsu7C_gIVEQSiAx3DcQz5EAAYASAAEgJAwPD_BwE
Mettre à jour
FRA
16:48
24/04/2023

MidJourney 64-bit

0$/month

Unleash Your Creativity with MidJourney's AI-powered Images!

Download for Windows

This is an open beta version of the program,
it is possible that the computer's security systems may falsely trigger, which is a common problem for all software that is in beta testing.
The open beta version is only available on Windows.

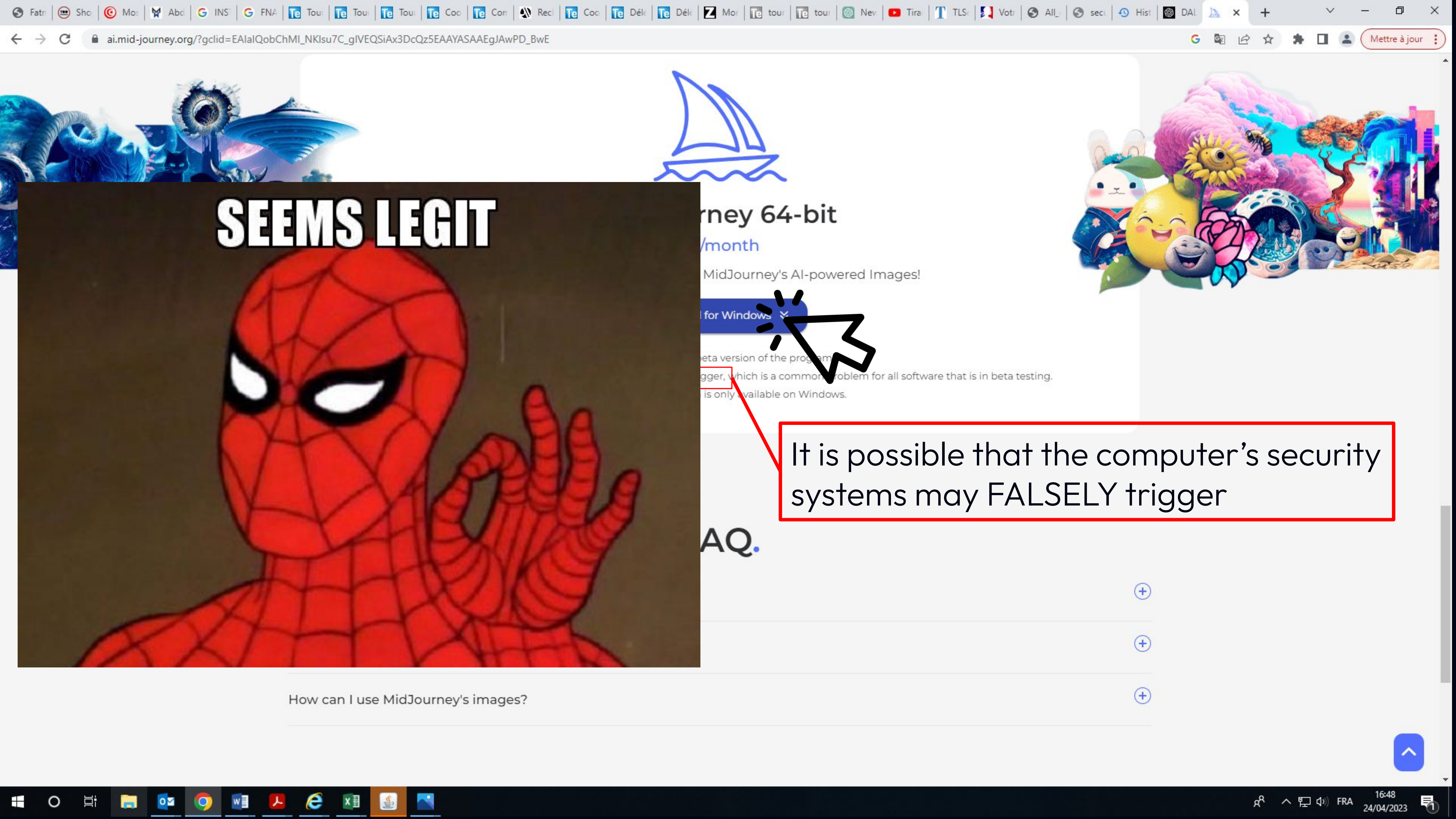
It is possible that the computer's security systems may FALSELY trigger

FAQ.

How do I make a request using MidJourney's AI?

What stock images can I find on MidJourney

How can I use MidJourney's images?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MidJourney's AI-powered Images!

eta version of the program

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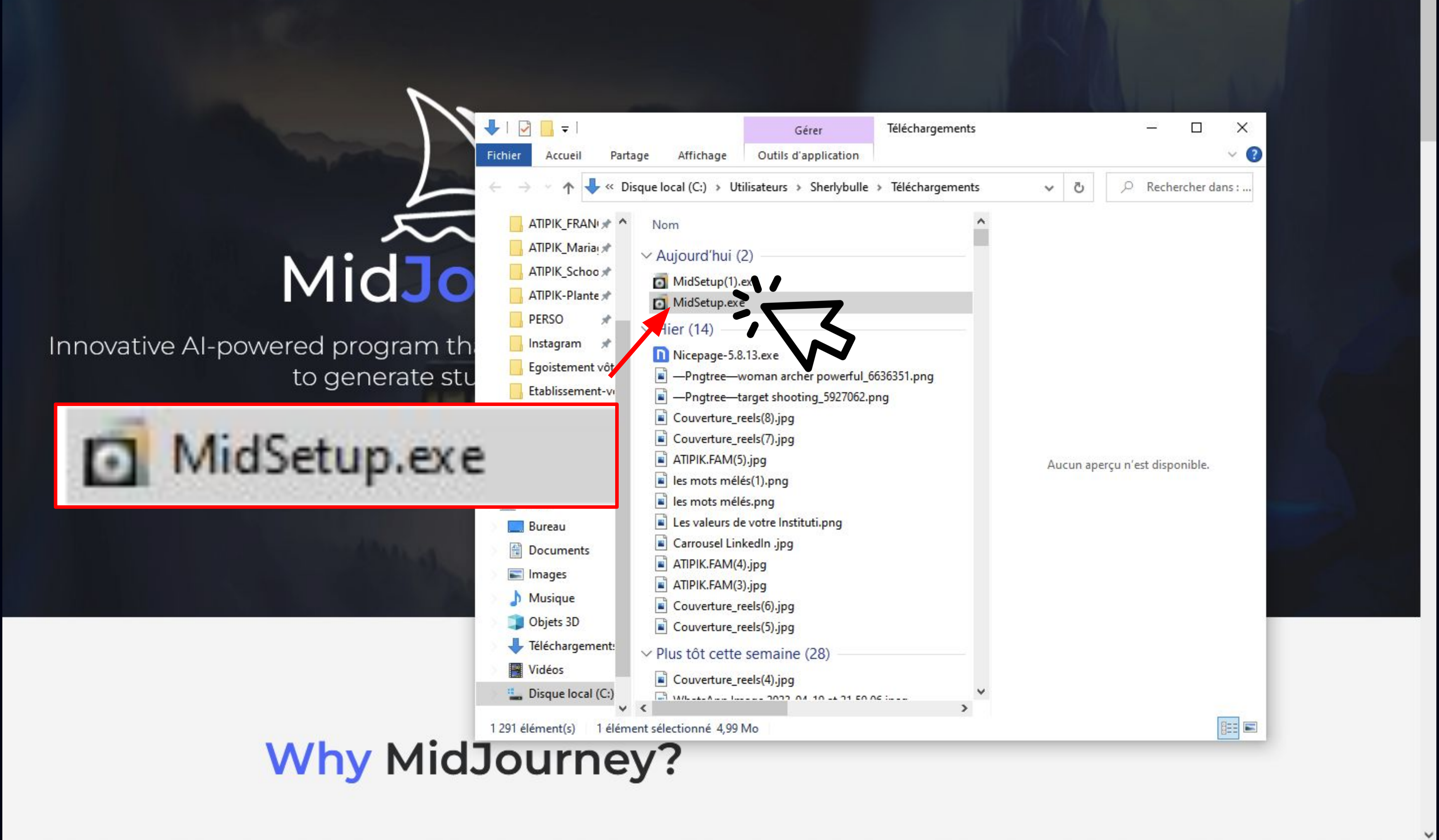

Aujourd'hui (2)

- MidSetup(1).ex
- MidSetup.exe

Hier (14)

- Nicepage-5.8.13.exe
- —Pngtree—woman archer powerful_6636351.png
- —Pngtree—target shooting_5927062.png
- Couverture_reels(8).jpg
- Couverture_reels(7).jpg
- ATIPIK.FAM(5).jpg
- les mots mélés(1).png
- les mots mélés.png
- Les valeurs de votre Instituti.png
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- ATIPIK.FAM(3).jpg
- Couverture_reels(6).jpg
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- Couverture_reels(4).jpg

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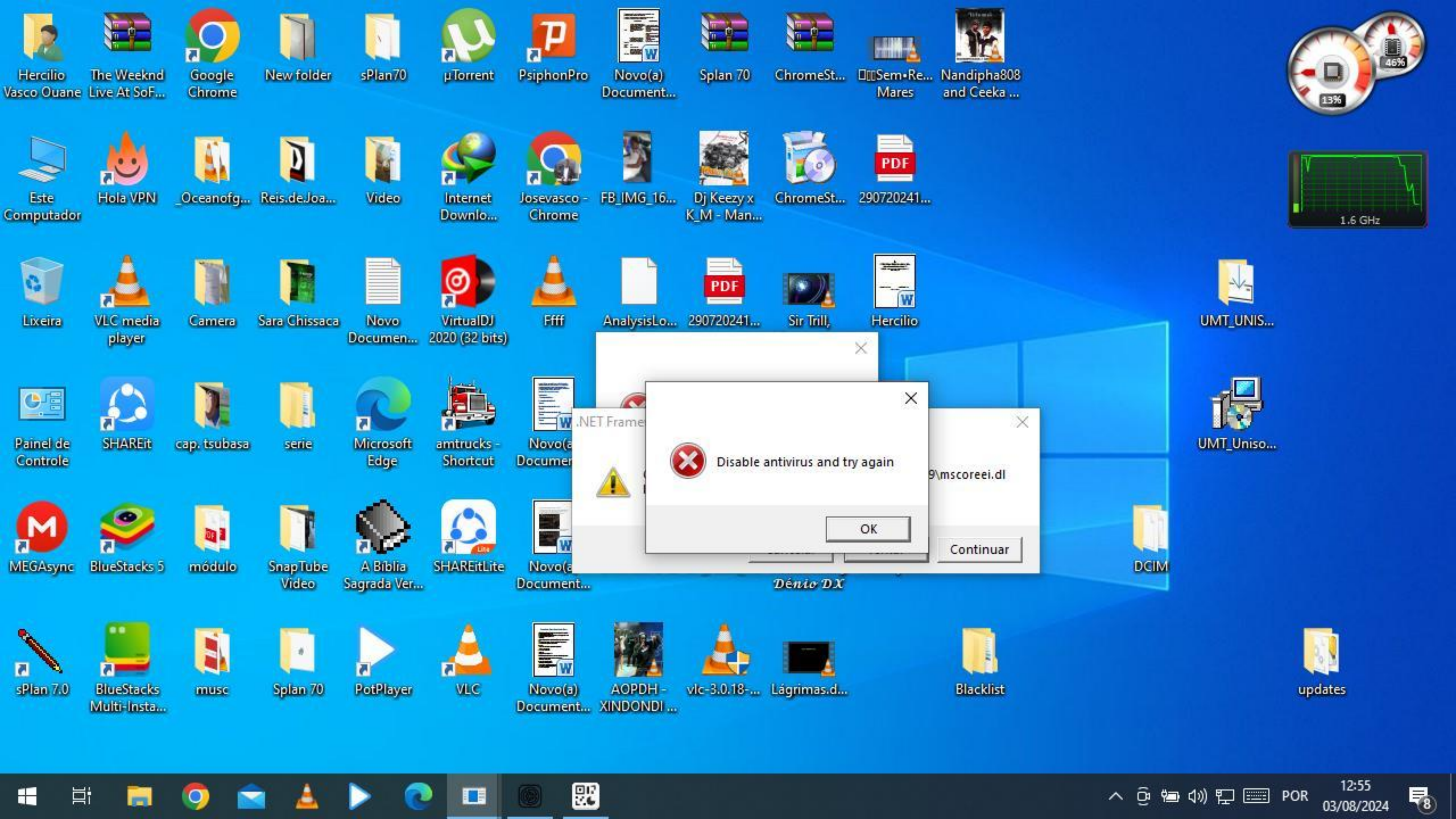
MidSetup.exe



Disable antivirus and try again

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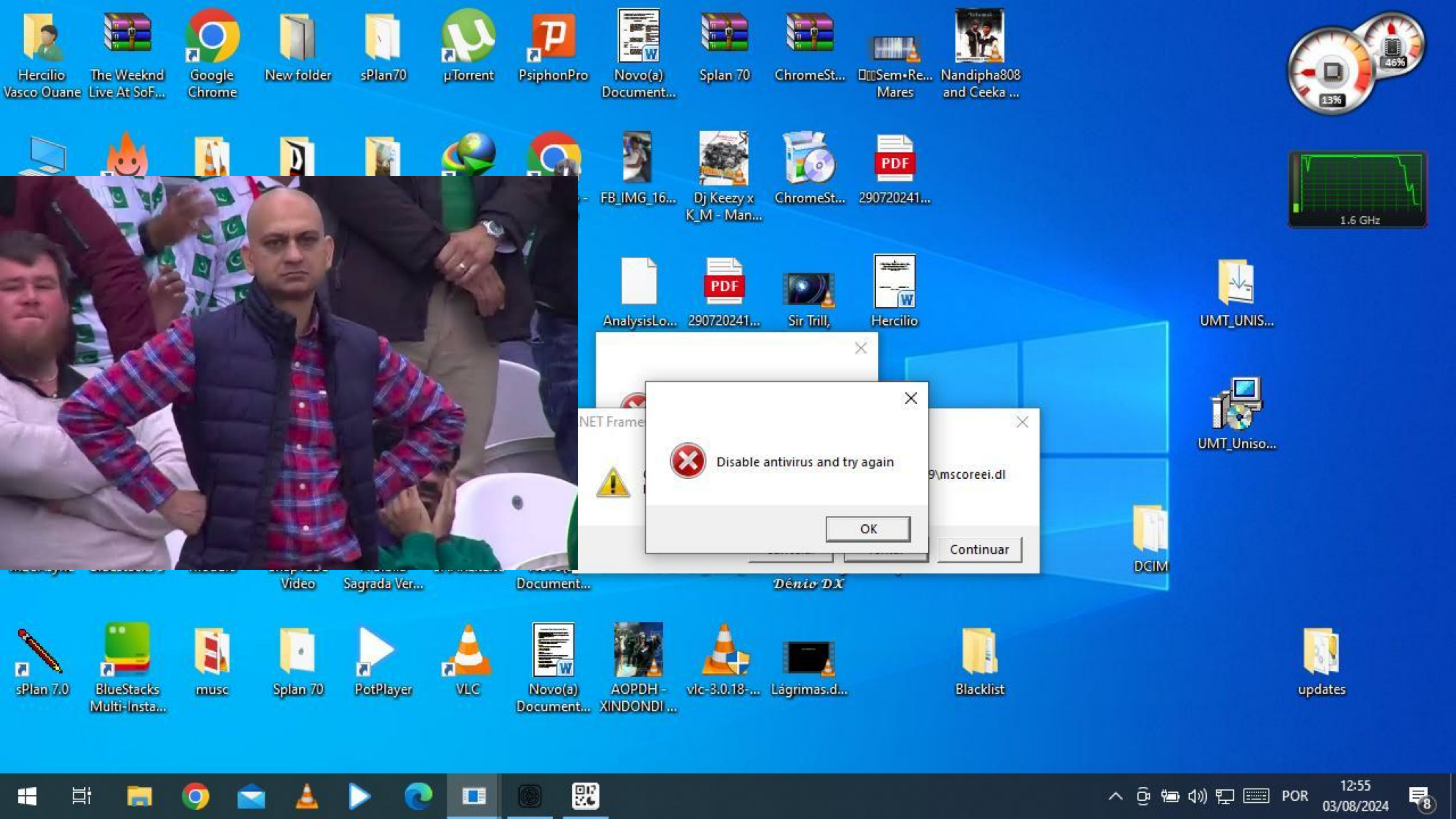
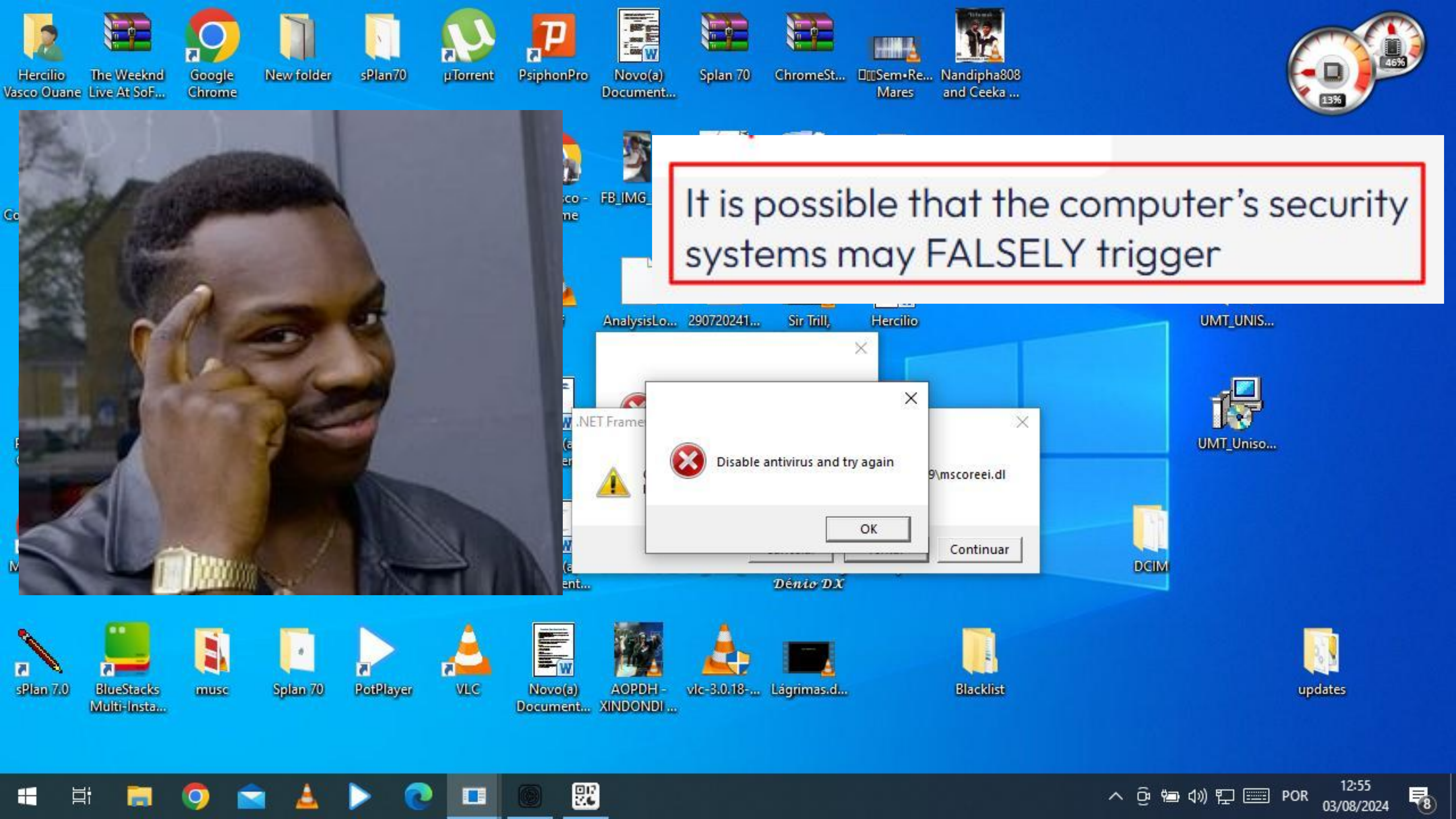


Disable antivirus and try again



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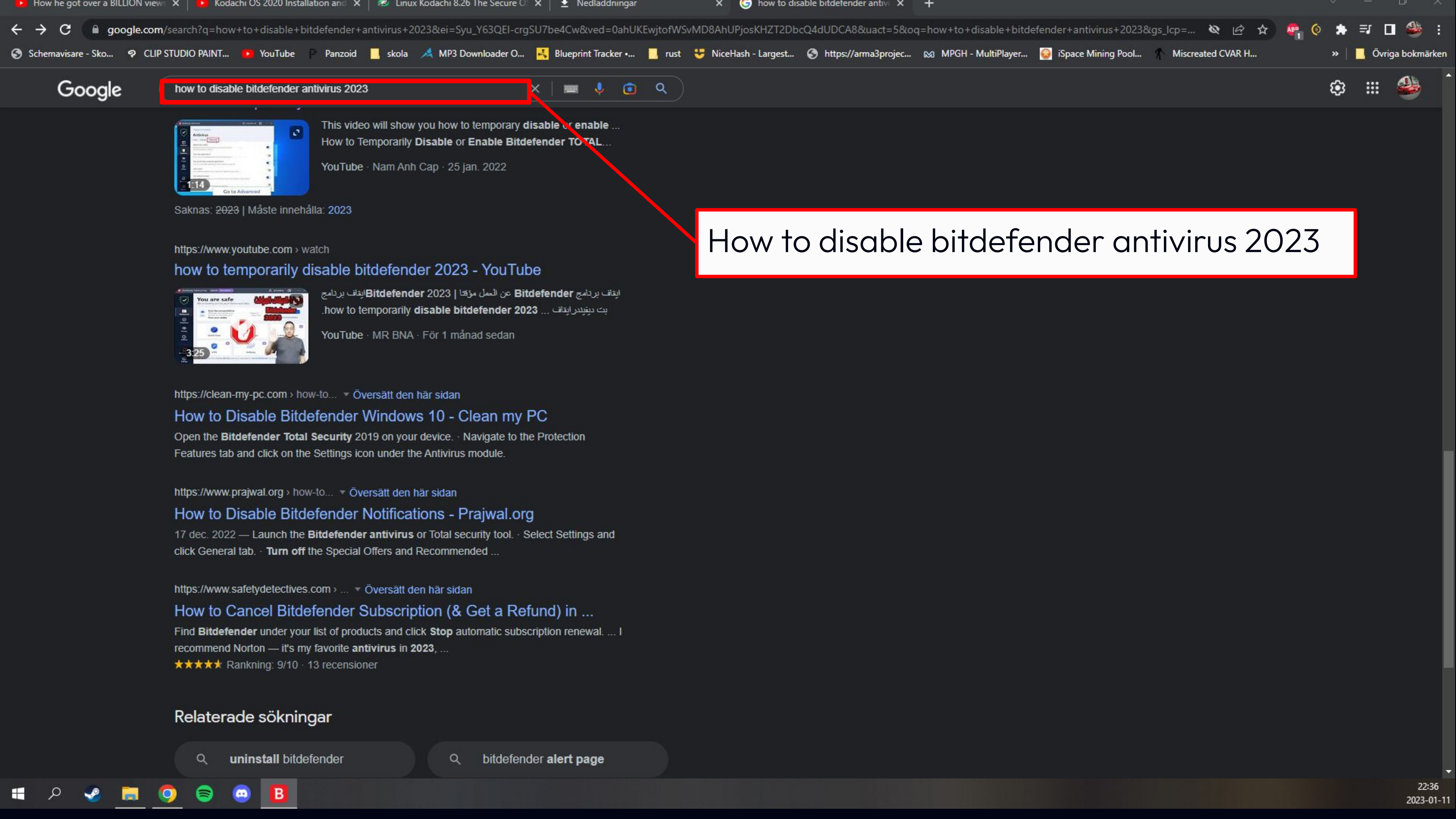
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Linux Kodachi 8.26 The Secure O
Nedladdningar
how to disable bitdefender antiv
google.com/search?q=how+to+disable+bitdefender+antivirus+2023&ei=Syu_Y63QEI-crgSU7be4Cw&ved=0ahUKEwjtofWSvMD8AhUPjosKHZT2DbcQ4dUDCA8&uact=5&oq=how+to+disable+bitdefender+antivirus+2023&gs_lcp=...
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CLIP STUDIO PAINT...
YouTube
Panzoid
skola
MP3 Downloader O...
Blueprint Tracker •...
rust
NiceHash - Largest...
https://arma3projec...
MPGH - MultiPlayer...
iSpace Mining Pool...
Miscreated CVAR H...
Övriga bokmärken
Google
1:14
Go to Advanced
3:25
22:36
2023-01-11

how to disable bitdefender antivirus 2023

How to disable bitdefender antivirus 2023

This video will show you how to temporary **disable** or **enable** ...
How to Temporarily **Disable** or **Enable Bitdefender** TOTAL...

YouTube · Nam Anh Cap · 25 jan. 2022

Saknas: ~~2023~~ | Måste innehålla: 2023

https://www.youtube.com › watch

how to temporarily disable bitdefender 2023 - YouTube

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بت ديفيندر ايقاف ... how to temporarily **disable bitdefender 2023**.

YouTube · MR BNA · För 1 månad sedan

https://clean-my-pc.com › how-to... ▾ Översätt den här sidan

How to Disable Bitdefender Windows 10 - Clean my PC

Open the **Bitdefender Total Security** 2019 on your device. · Navigate to the Protection Features tab and click on the Settings icon under the Antivirus module.

https://www.prajwal.org › how-to... ▾ Översätt den här sidan

How to Disable Bitdefender Notifications - Prajwal.org

17 dec. 2022 — Launch the **Bitdefender antivirus** or Total security tool. · Select Settings and click General tab. · **Turn off** the Special Offers and Recommended ...

https://www.safetydetectives.com › ... ▾ Översätt den här sidan

How to Cancel Bitdefender Subscription (& Get a Refund) in ...

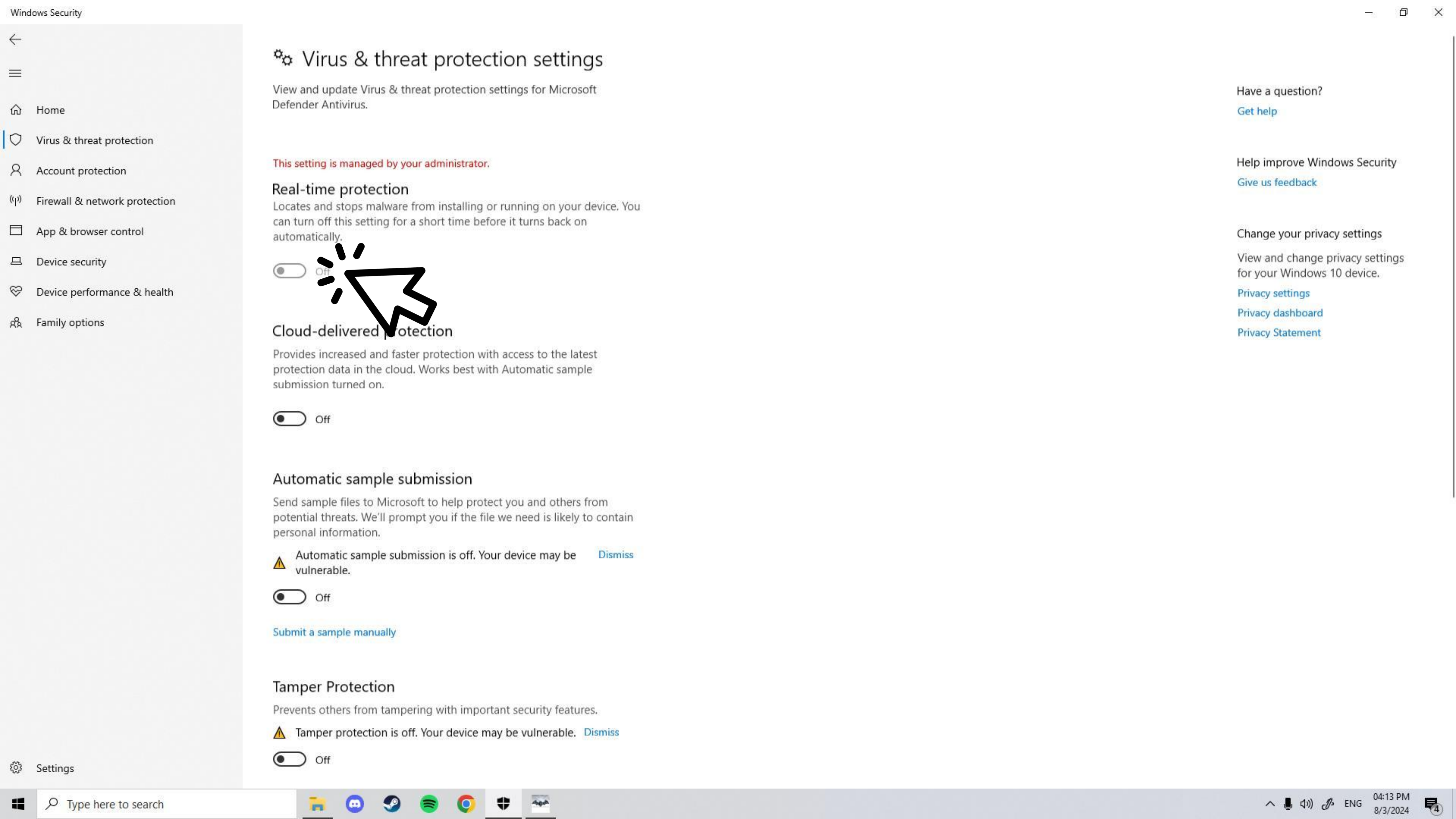
Find **Bitdefender** under your list of products and click **Stop** automatic subscription renewal. ... I recommend Norton — it's my favorite **antivirus** in **2023**, ...

★★★★★ Rankning: 9/10 · 13 recensioner

Relaterade sökningar

uninstall bitdefender

bitdefender **alert page**



Virus & threat protection settings

View and update Virus & threat protection settings for Microsoft Defender Antivirus.

This setting is managed by your administrator.

Real-time protection

Locates and stops malware from installing or running on your device. You can turn off this setting for a short time before it turns back on automatically.

Off

Cloud-delivered protection

Provides increased and faster protection with access to the latest protection data in the cloud. Works best with Automatic sample submission turned on.

Off

Automatic sample submission

Send sample files to Microsoft to help protect you and others from potential threats. We'll prompt you if the file we need is likely to contain personal information.

⚠ Automatic sample submission is off. Your device may be vulnerable. Dismiss

Off

Submit a sample manually

Tamper Protection

Prevents others from tampering with important security features.

⚠ Tamper protection is off. Your device may be vulnerable. Dismiss

Off

Have a question?
Get help

Help improve Windows Security
Give us feedback

Change your privacy settings

View and change privacy settings for your Windows 10 device.

Privacy settings
Privacy dashboard
Privacy Statement

Windows Security

- Home
- Virus & threat protection
- Account protection
- Firewall & network protection
- App & browser control
- Device security
- Device performance & health
- Family options

Settings

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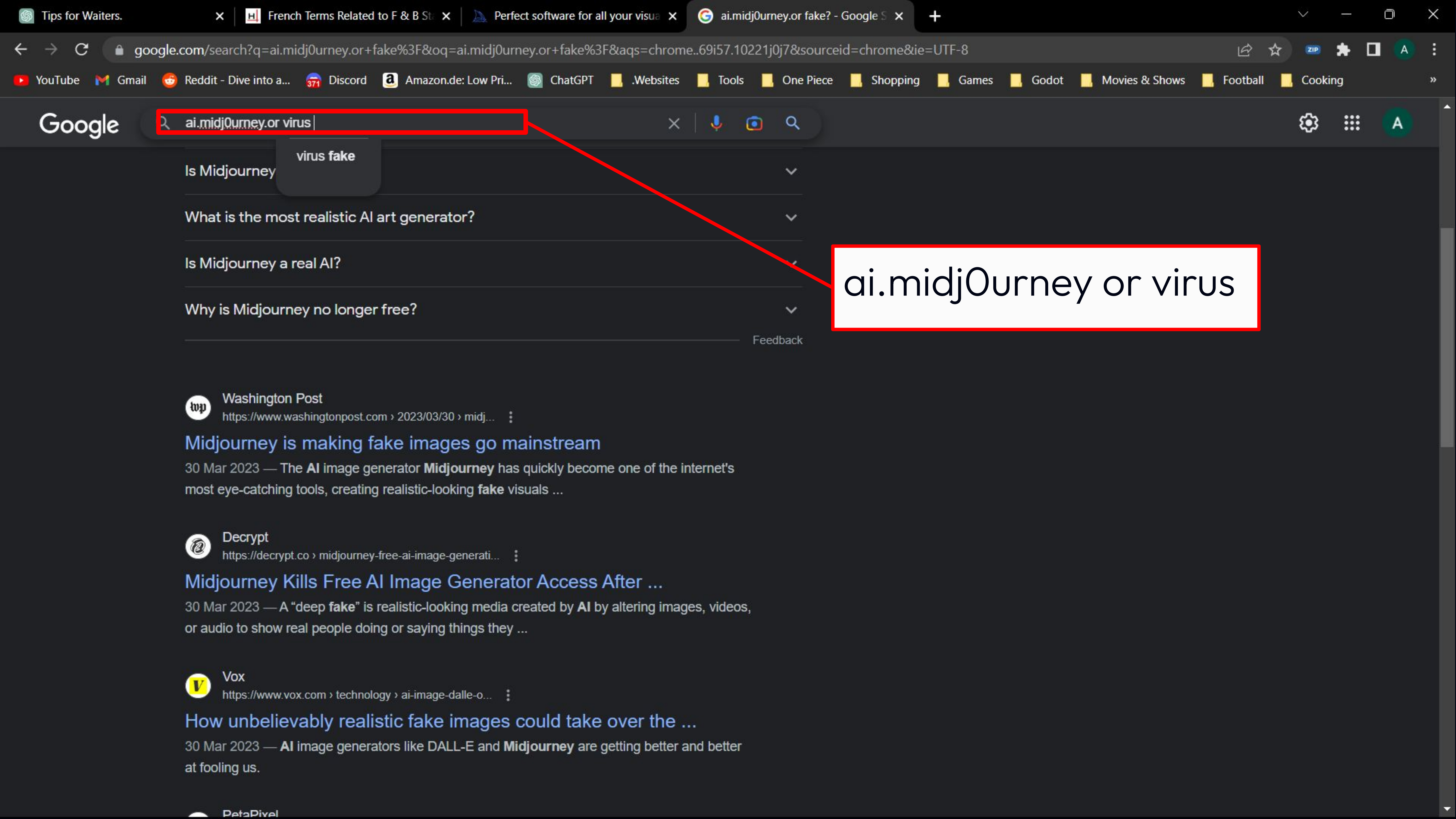
Privacy settings

Privacy dashboard

Privacy Statement

Type here to search

ENG 04:13 PM 8/3/2024


Tips for Waiters.
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YouTube
Gmail
Reddit - Dive into a...
Discord
Amazon.de: Low Pri...
ChatGPT
.Websites
Tools
One Piece
Shopping
Games
Godot
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Football
Cooking
Google
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Is Midjourney

What is the most realistic AI art generator?

Is Midjourney a real AI?

Why is Midjourney no longer free?

Feedback

Washington Post
https://www.washingtonpost.com › 2023/03/30 › midj...

Midjourney is making fake images go mainstream

30 Mar 2023 — The **AI** image generator **Midjourney** has quickly become one of the internet's most eye-catching tools, creating realistic-looking **fake** visuals ...

Decrypt
https://decrypt.co › midjourney-free-ai-image-generati...

Midjourney Kills Free AI Image Generator Access After ...

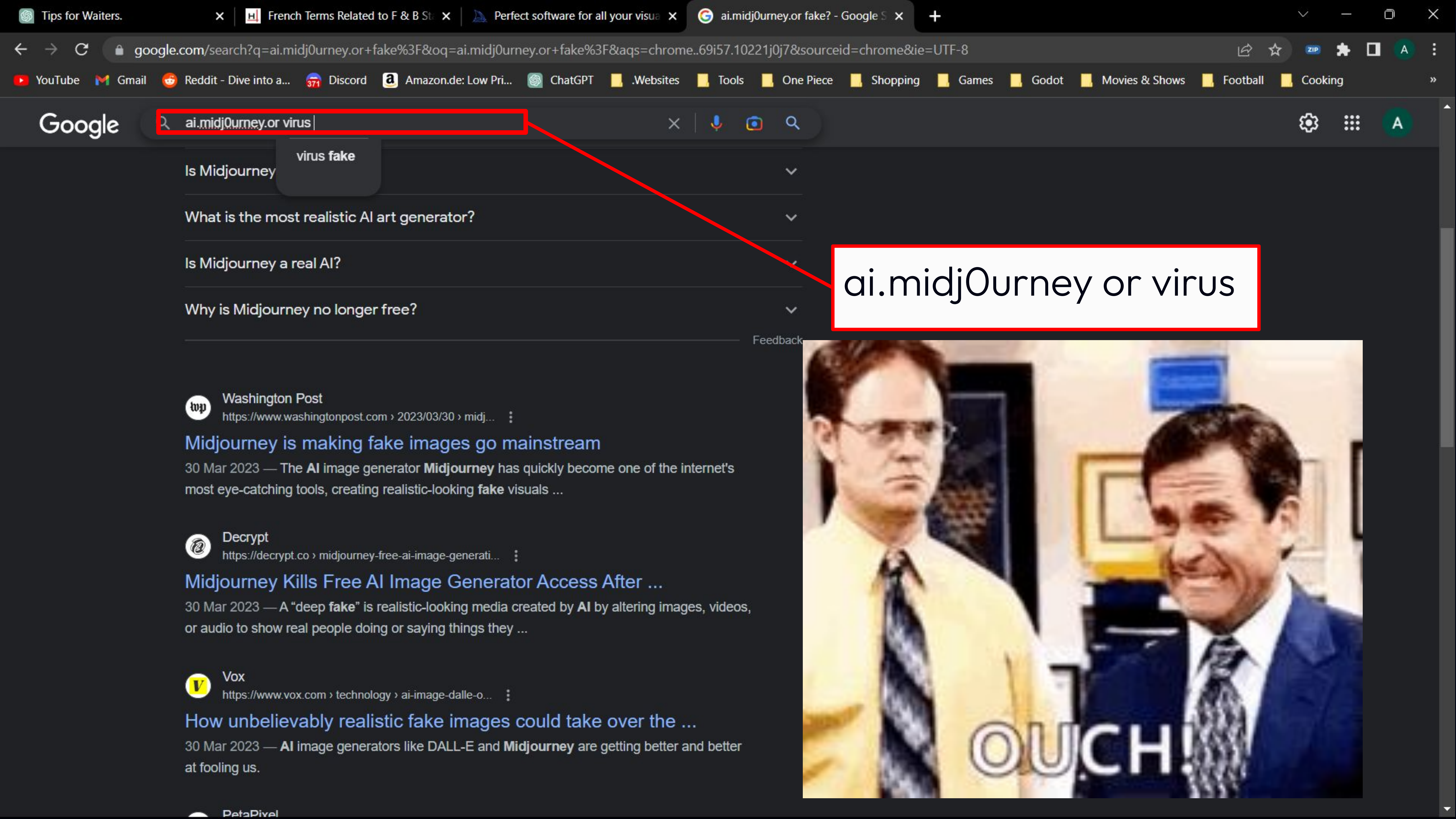
30 Mar 2023 — A "deep **fake**" is realistic-looking media created by **AI** by altering images, videos, or audio to show real people doing or saying things they ...

Vox
https://www.vox.com › technology › ai-image-dalle-o...

How unbelievably realistic fake images could take over the ...

30 Mar 2023 — **AI** image generators like DALL-E and **Midjourney** are getting better and better at fooling us.

PetaPixel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google.com/search?q=ai.midj0urney.or+fake%3F&oq=ai.midj0urney.or+fake%3F&aqs=chrome..69i57.10221j0j7&sourceid=chrome&ie=UTF-8
YouTube
Gmail
Reddit - Dive into a...
Discord
Amazon.de: Low Pri...
ChatGPT
.Websites
Tools
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Shopping
Games
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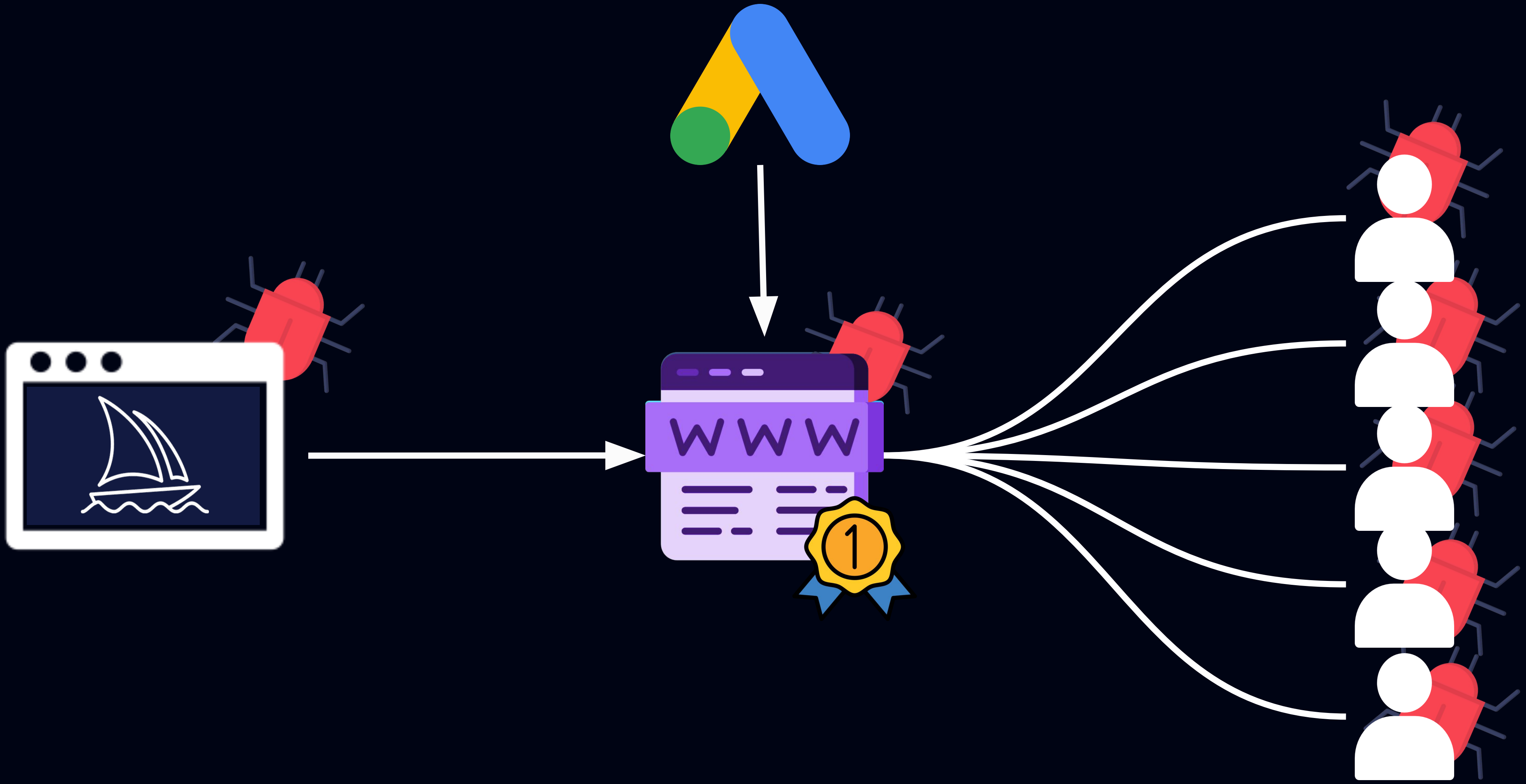
PetaPixel

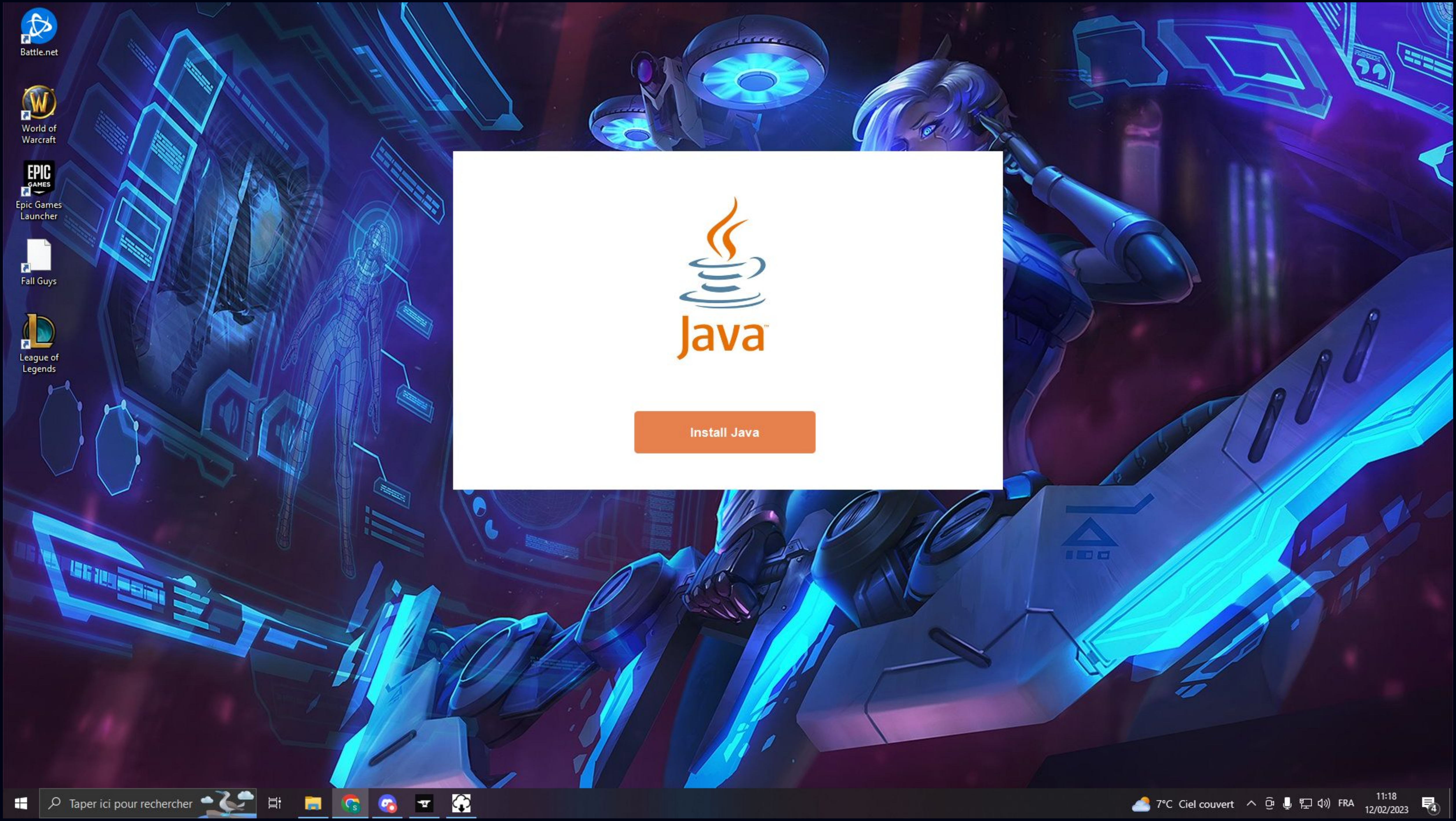
Use Cases

MidjØurney Campaign



MidJ0urney

Blitz Java


Battle.net
World of Warcraft
Epic Games Launcher
Fall Guys
League of Legends
Java
Install Java
Taper ici pour rechercher
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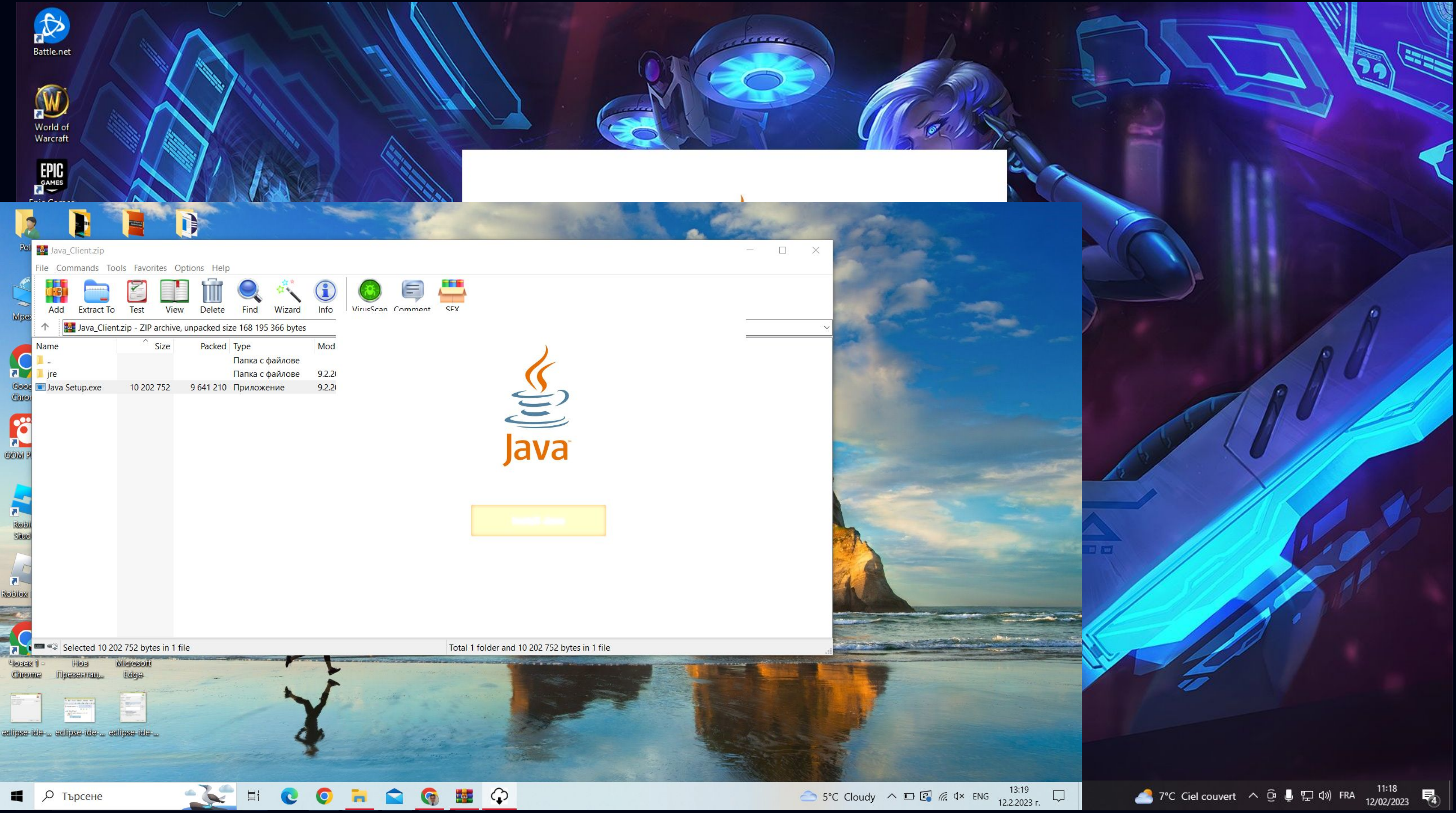
12/02/2023

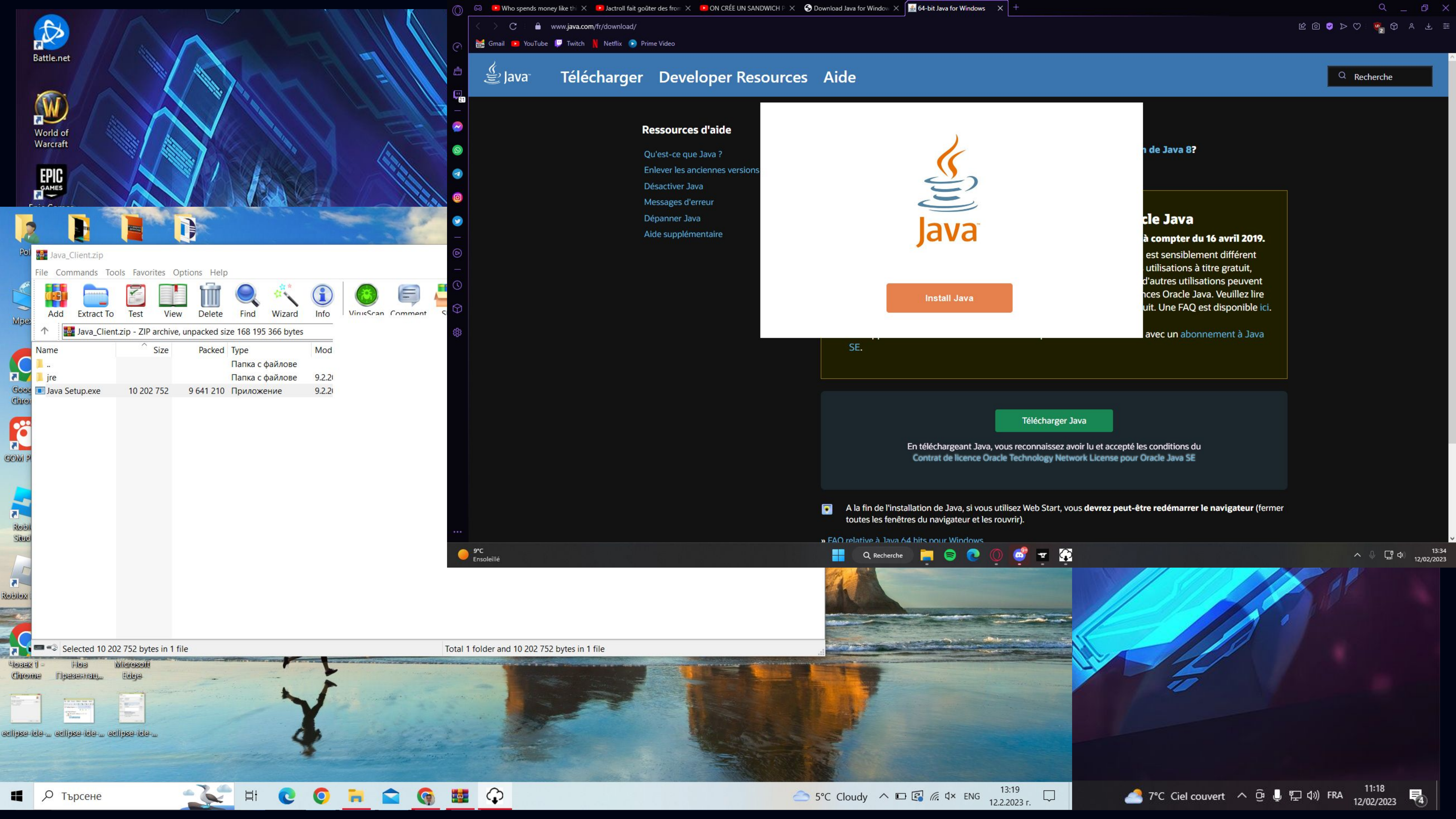


Java_Client.zip - ZIP archive, unpacked size 168 195 366 bytes

Name	Size	Packed	Type	Mod
..			Папка с файлове	
jre			Папка с файлове	9.2.2
Java Setup.exe	10 202 752	9 641 210	Приложение	9.2.2

Selected 10 202 752 bytes in 1 file

Total 1 folder and 10 202 752 bytes in 1 file



www.java.com/fr/download/

Ressources d'aide

- Qu'est-ce que Java ?
- Enlever les anciennes versions
- Désactiver Java
- Messages d'erreur
- Dépanner Java
- Aide supplémentaire

n de Java 8?

cle Java

à compter du 16 avril 2019.

est sensiblement différent utilisations à titre gratuit, d'autres utilisations peuvent nces Oracle Java. Veuillez lire uit. Une FAQ est disponible ici.

avec un abonnement à Java SE.

En téléchargeant Java, vous reconnaissez avoir lu et accepté les conditions du Contrat de licence Oracle Technology Network License pour Oracle Java SE

A la fin de l'installation de Java, si vous utilisez Web Start, vous **devrez peut-être redémarrer le navigateur** (fermer toutes les fenêtres du navigateur et les rouvrir).

» FAQ relative à Java 64 bits pour Windows

Java_Client.zip

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Name	Size	Packed	Type	Mod
..			Папка с файлове	
jre			Папка с файлове	9.2.2
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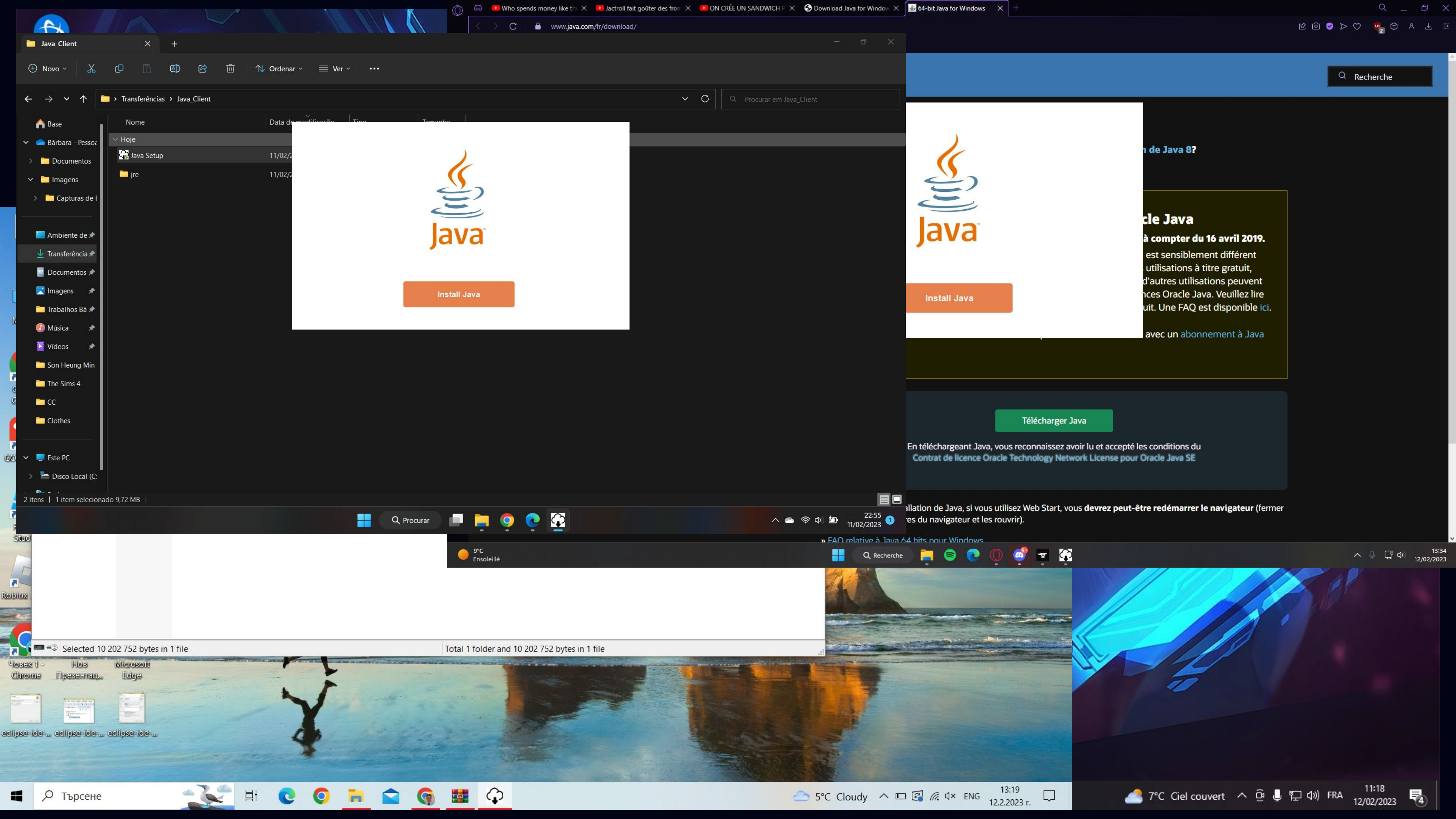

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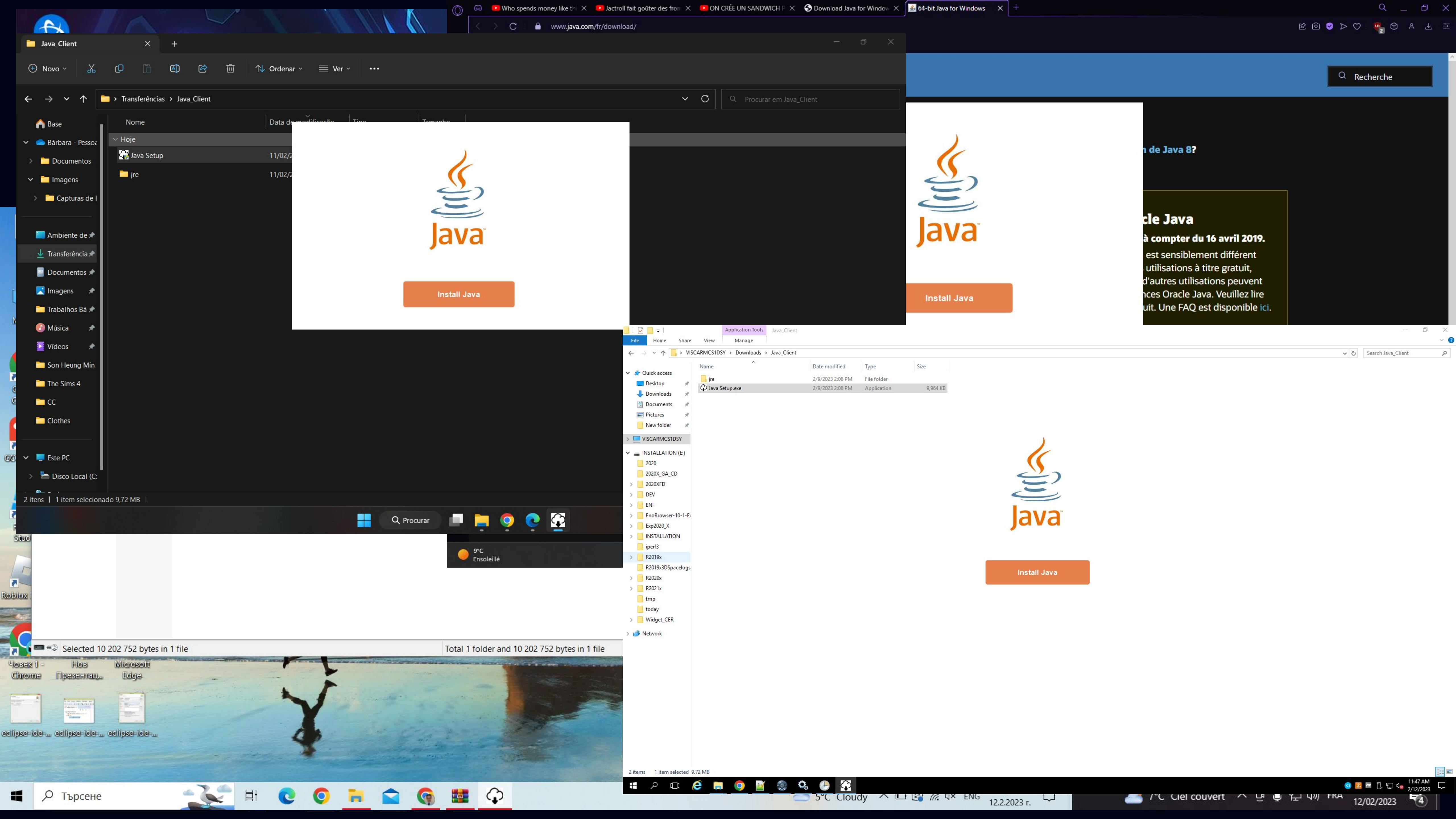

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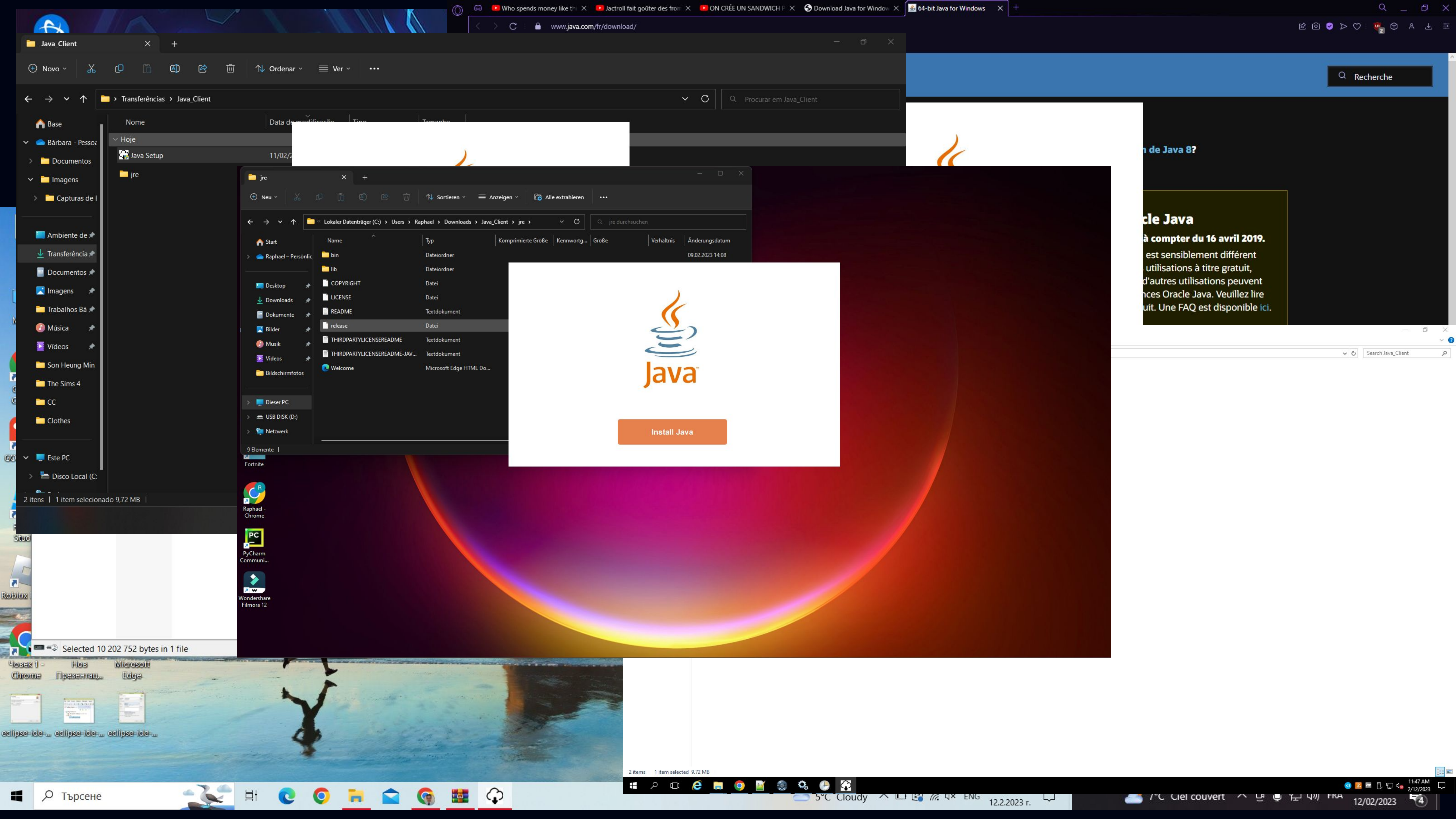

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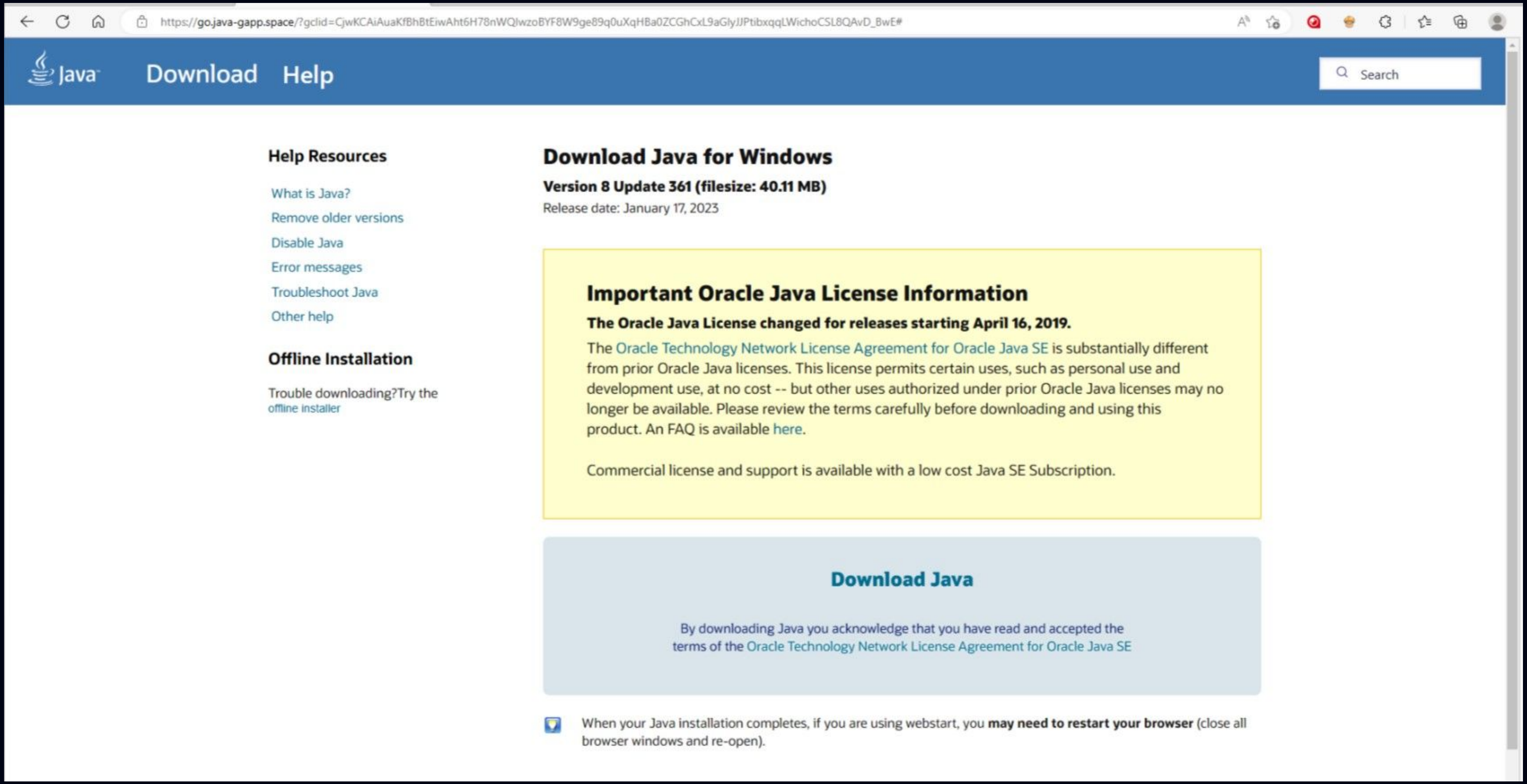

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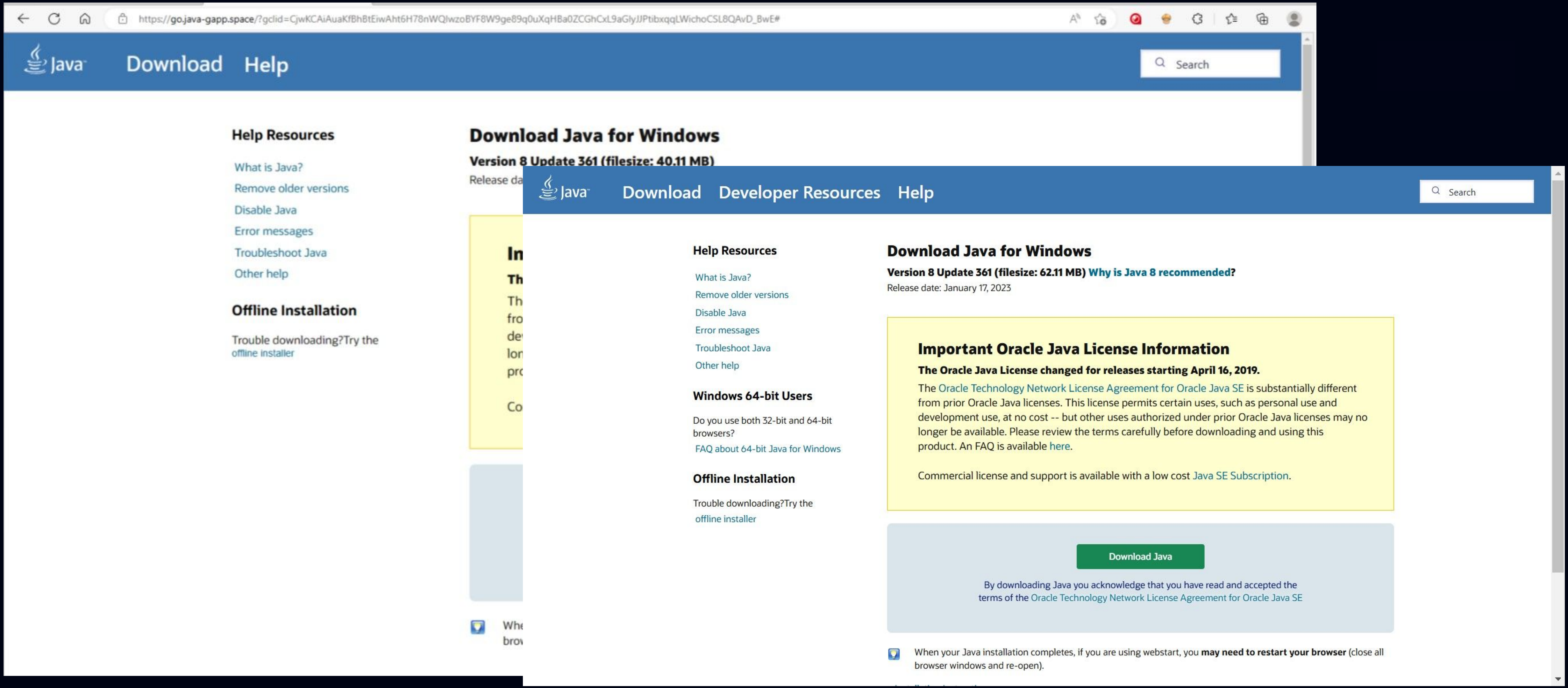

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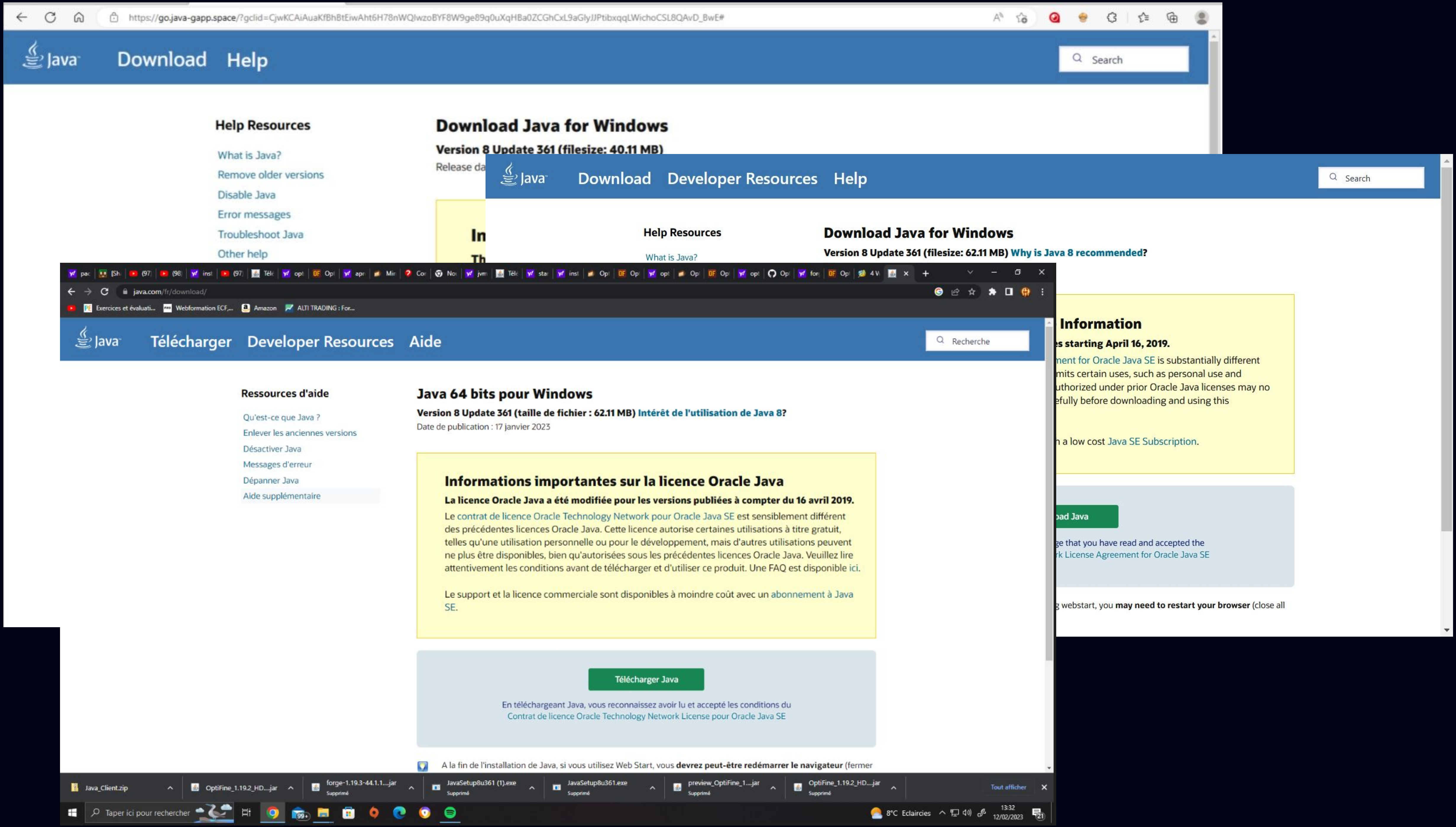

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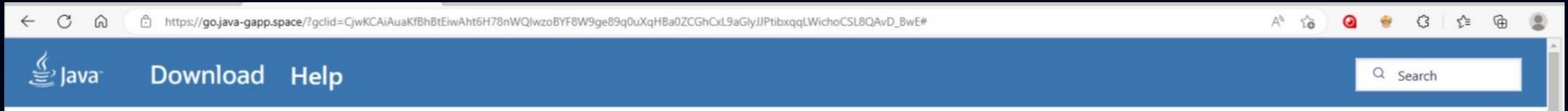

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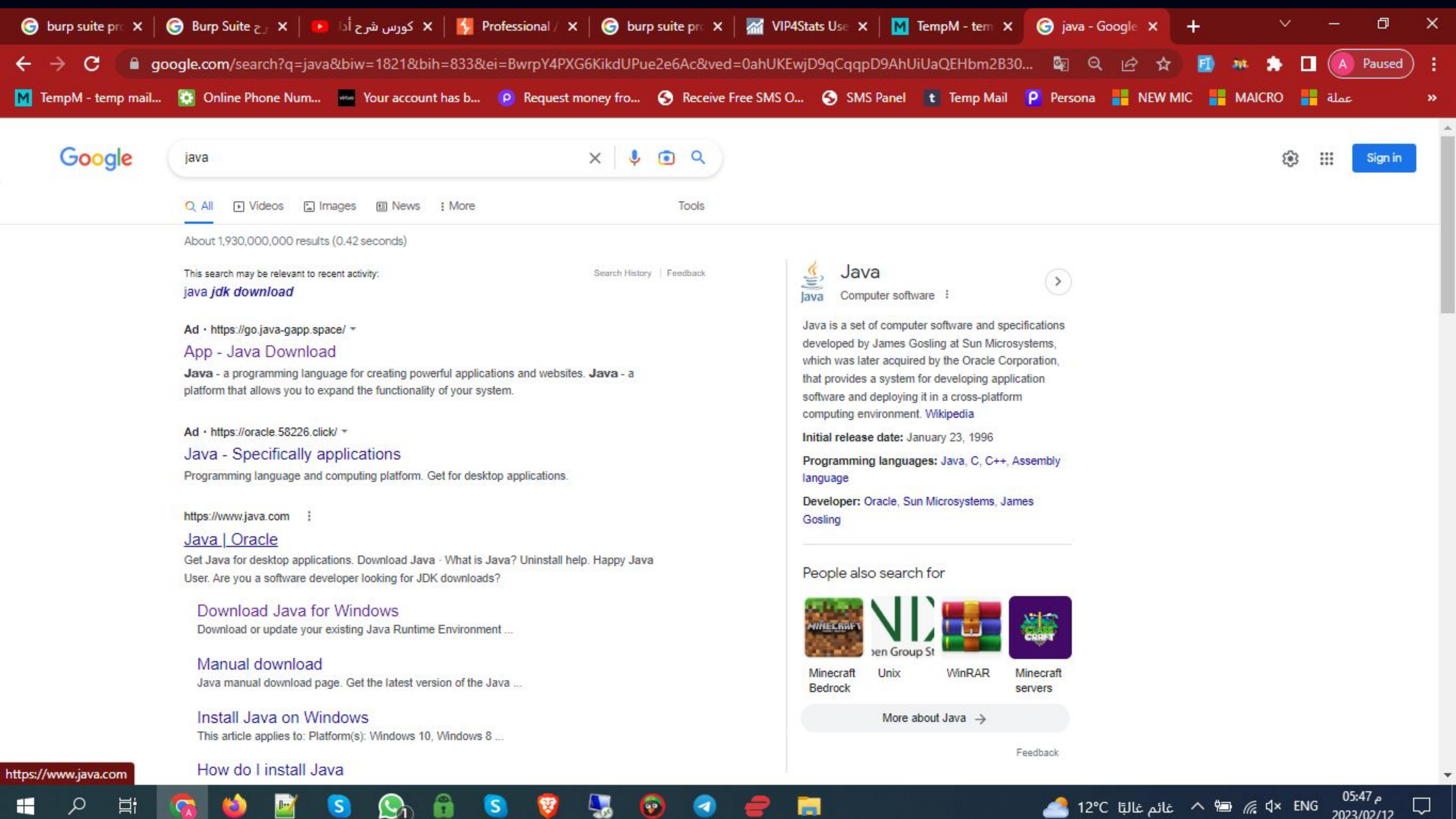

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Developer: Oracle, Sun Microsystems, James Gosling

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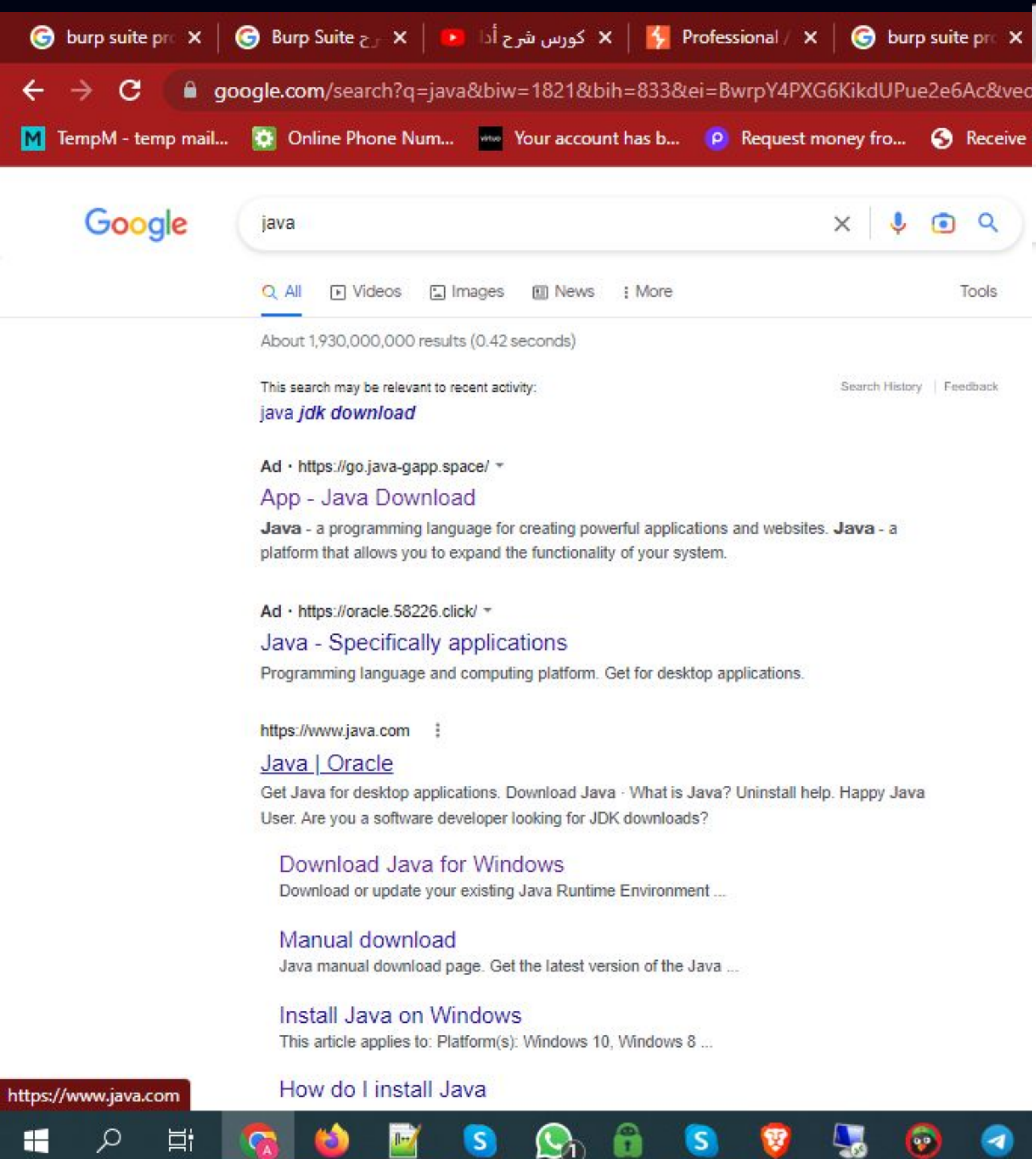

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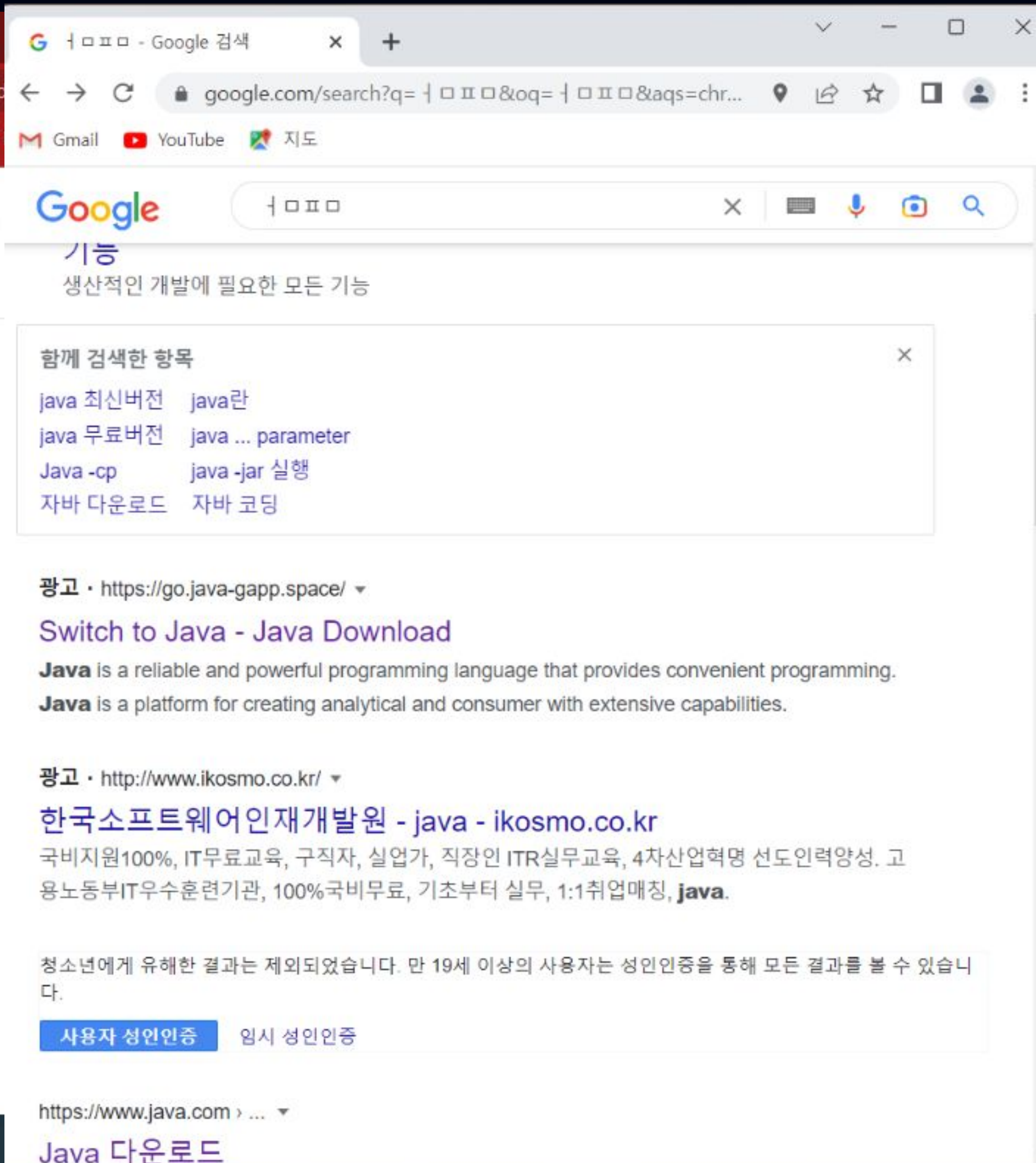

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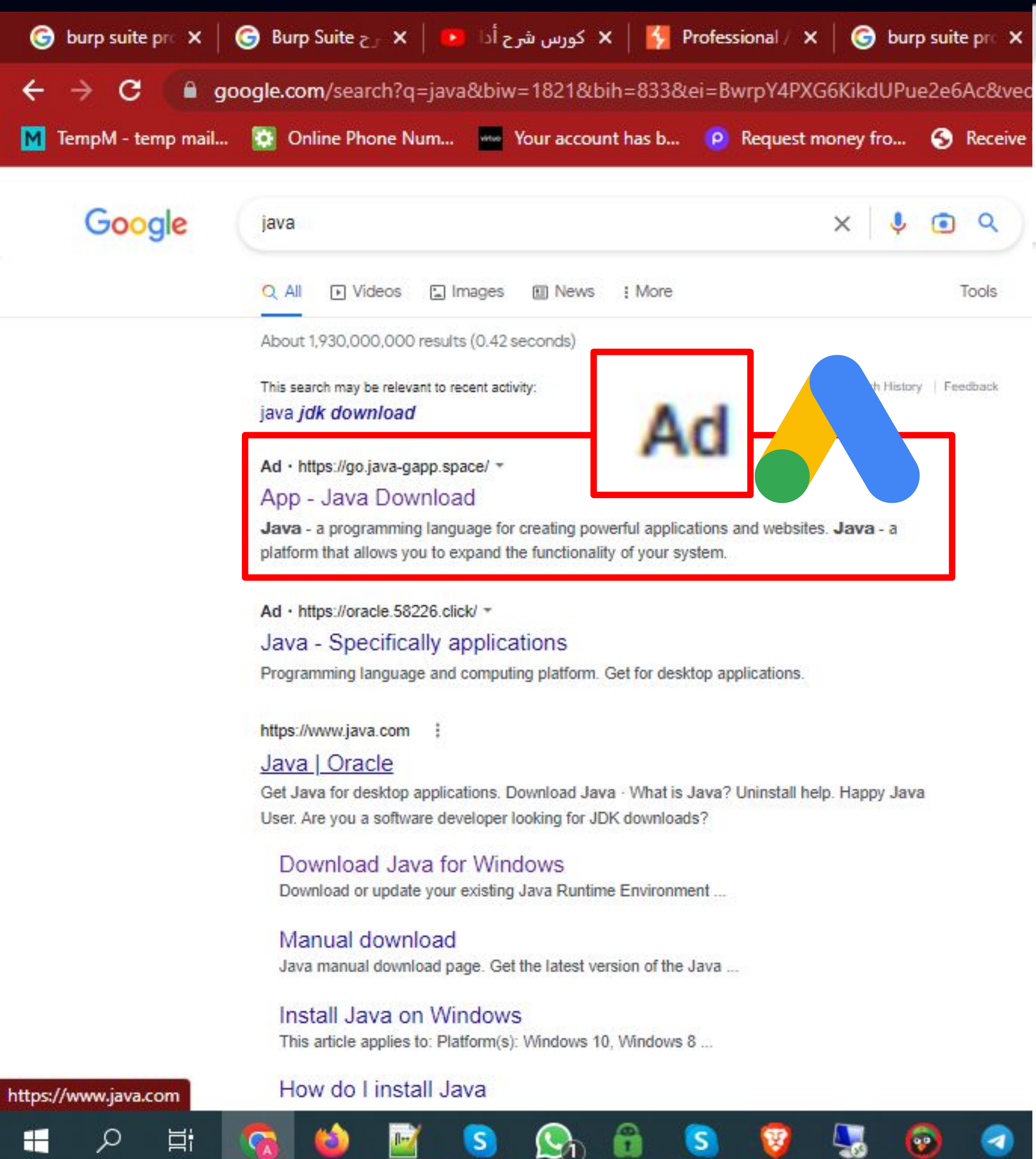

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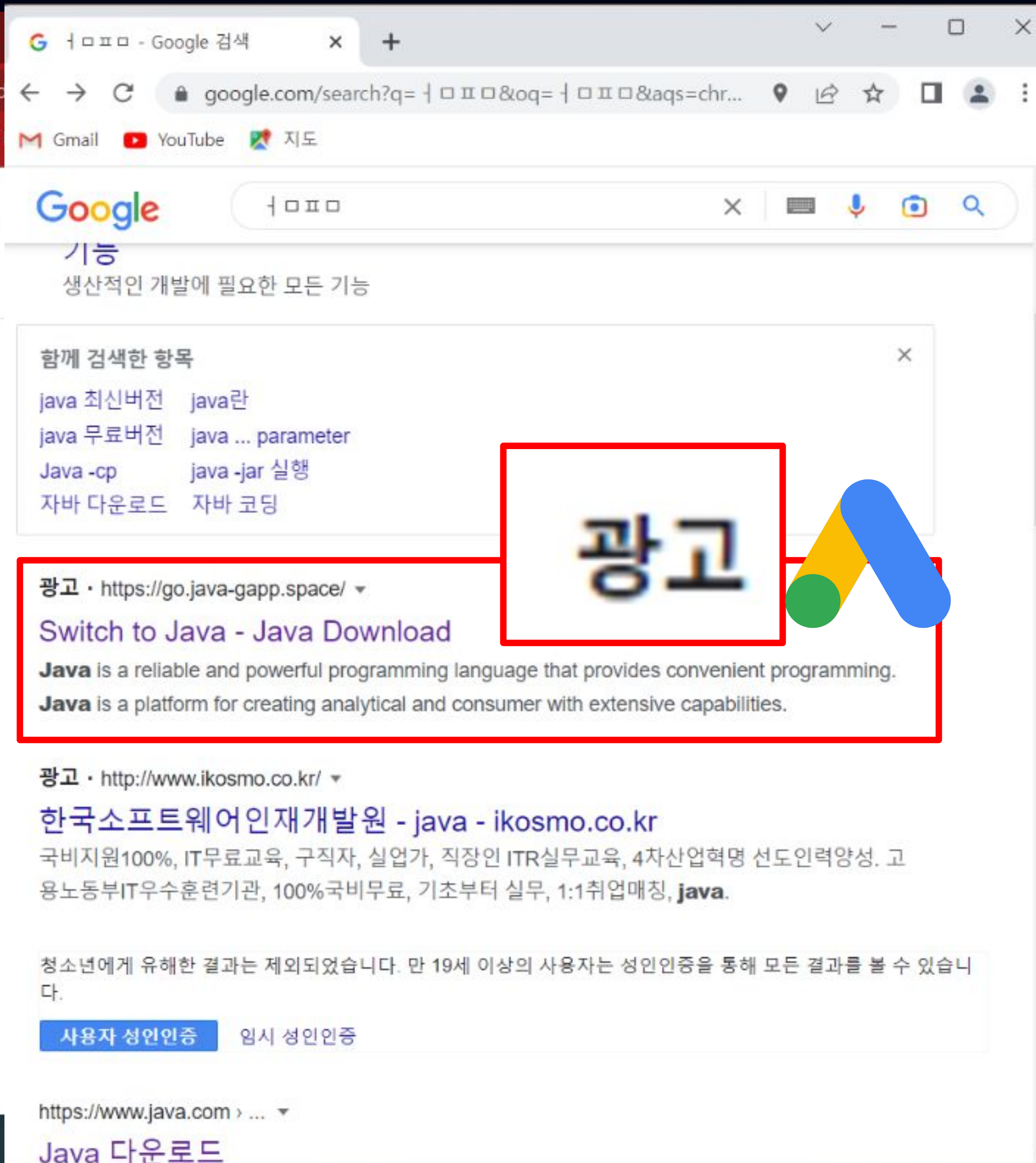

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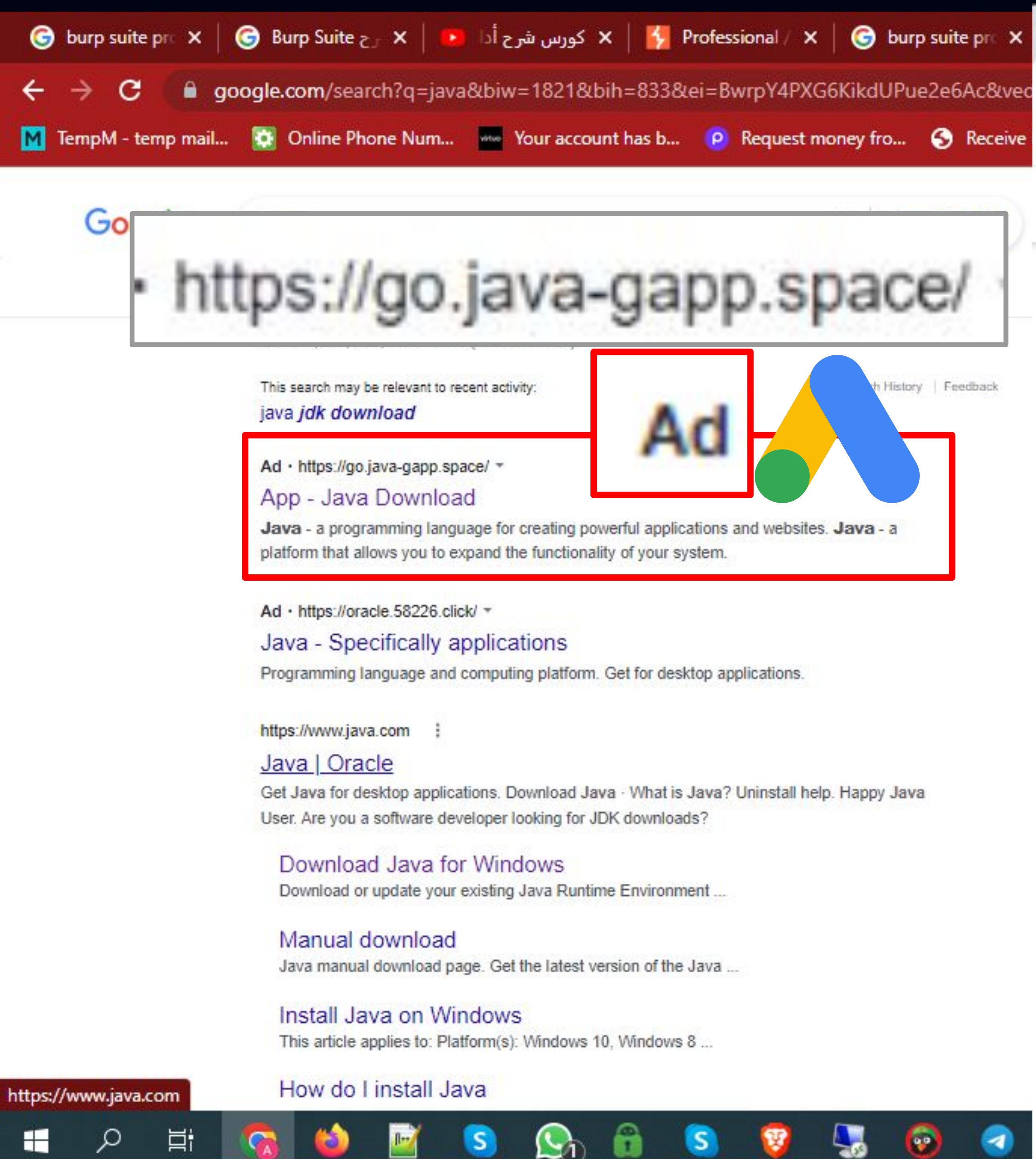

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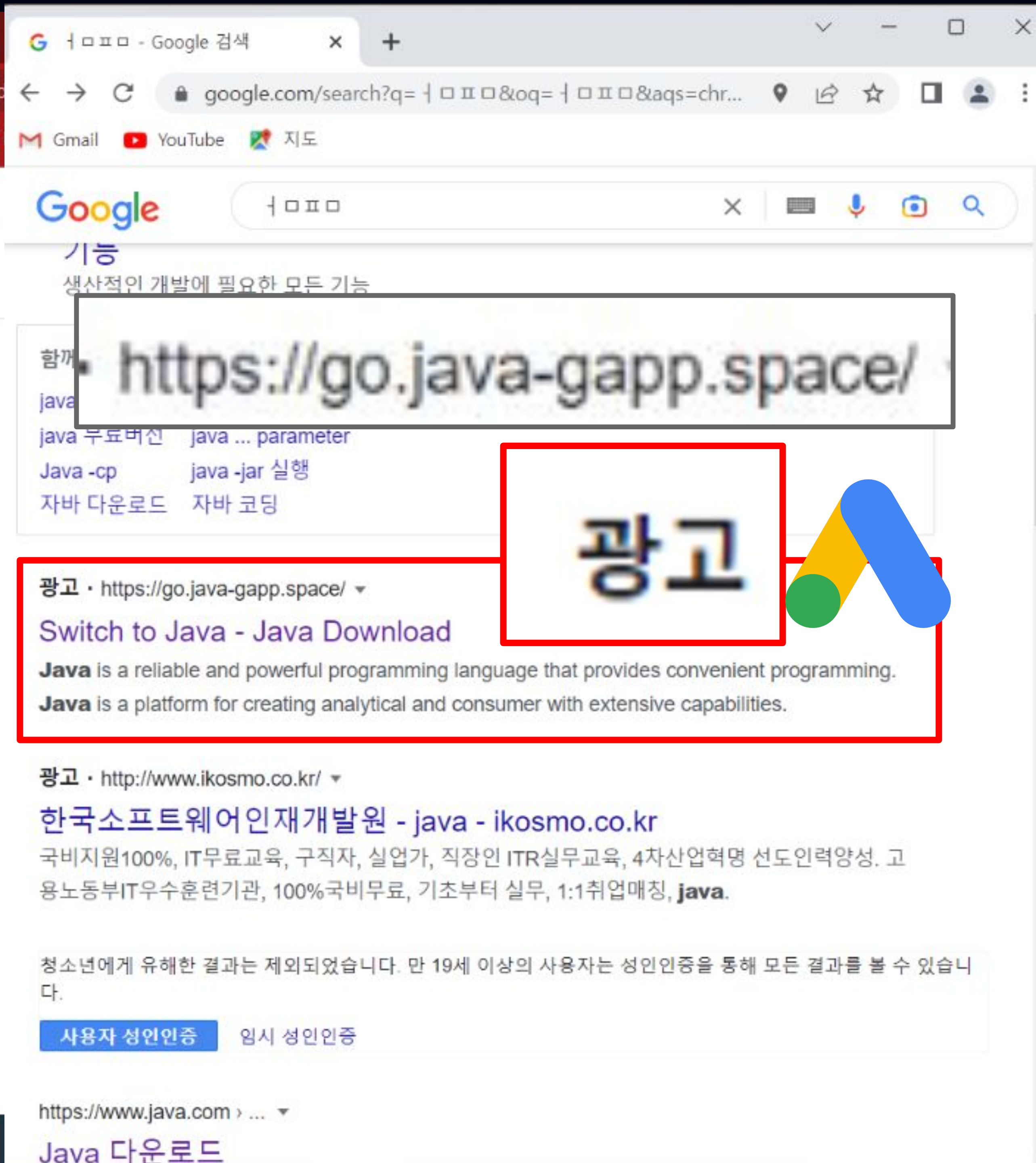

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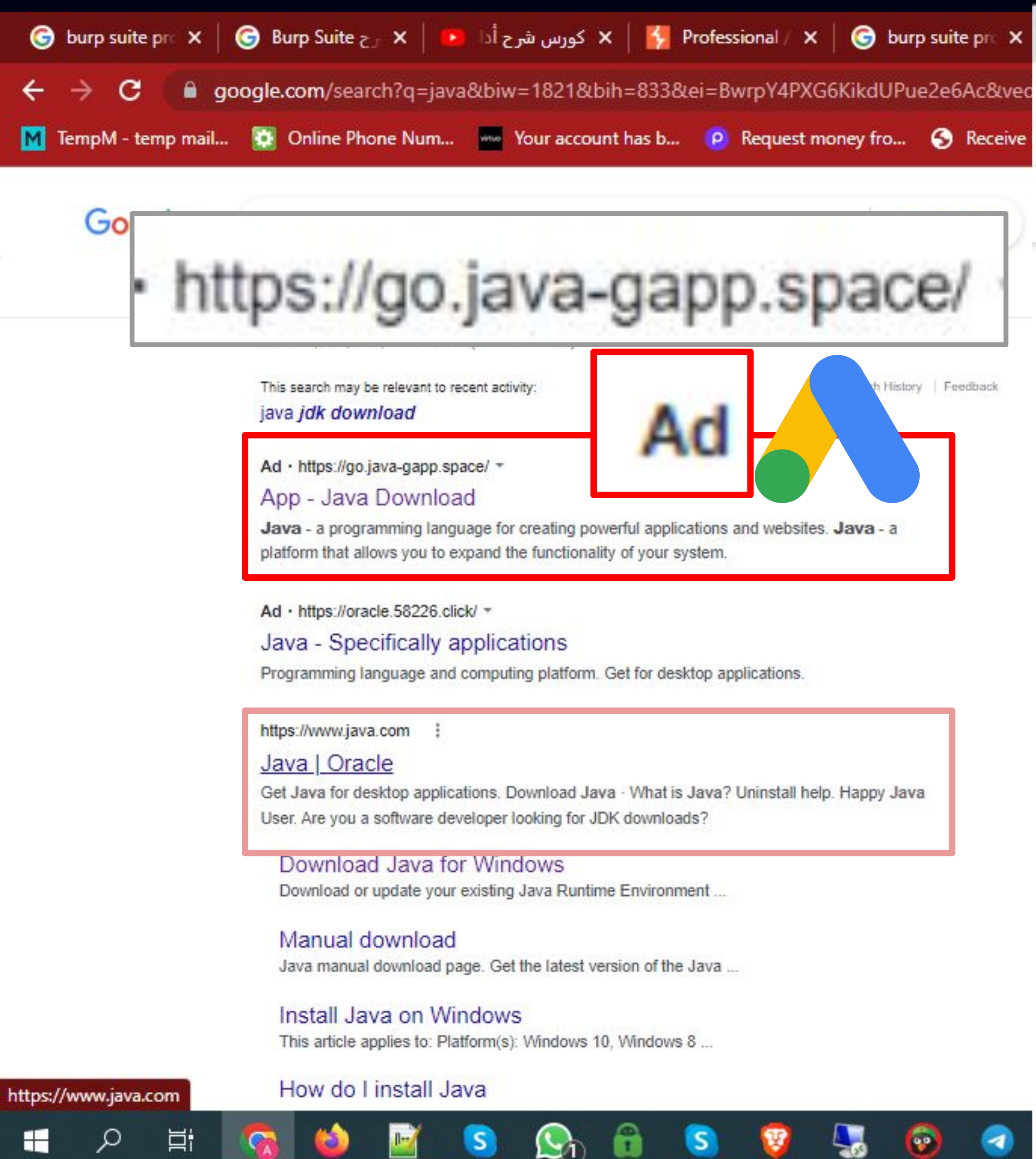

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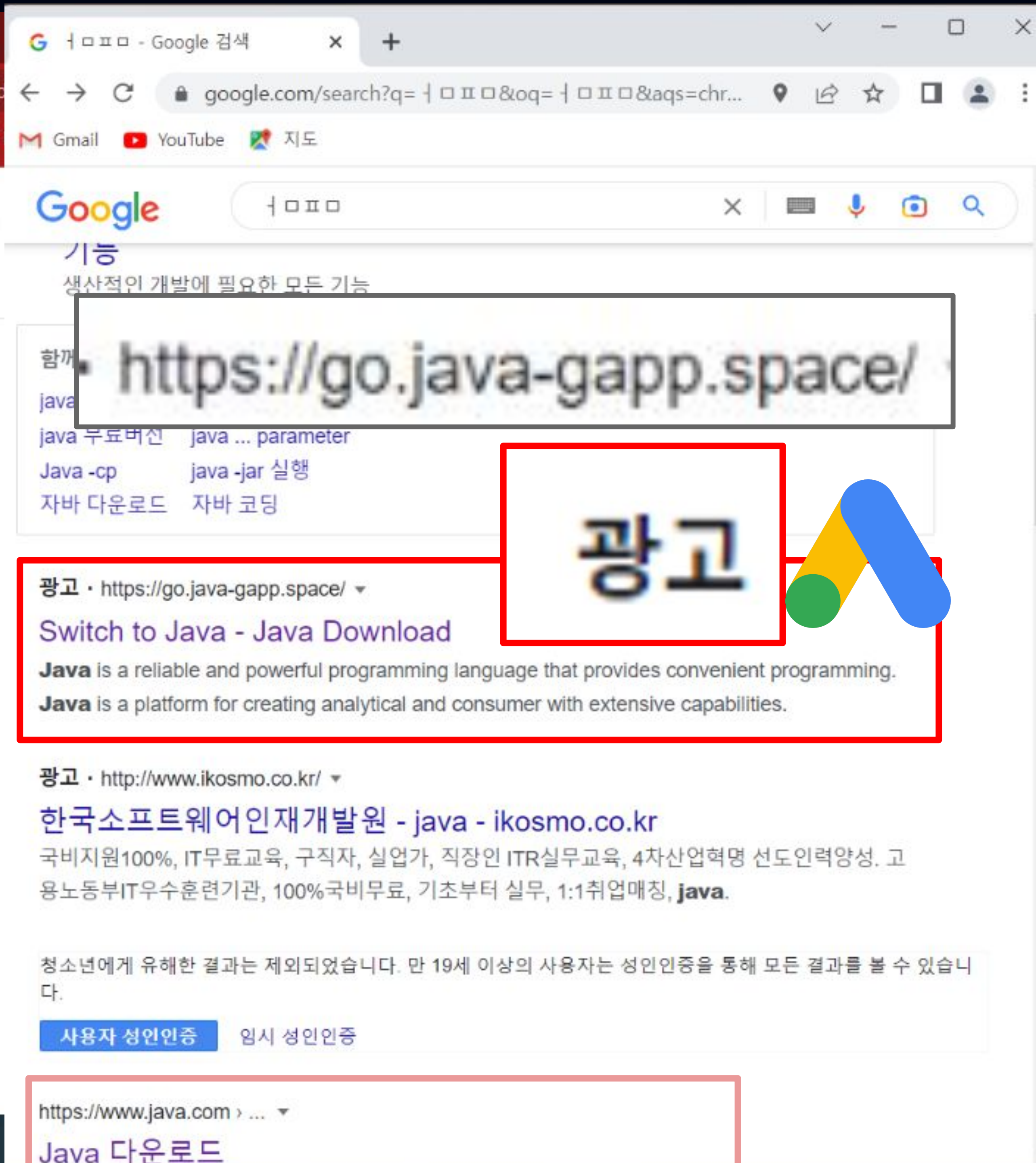

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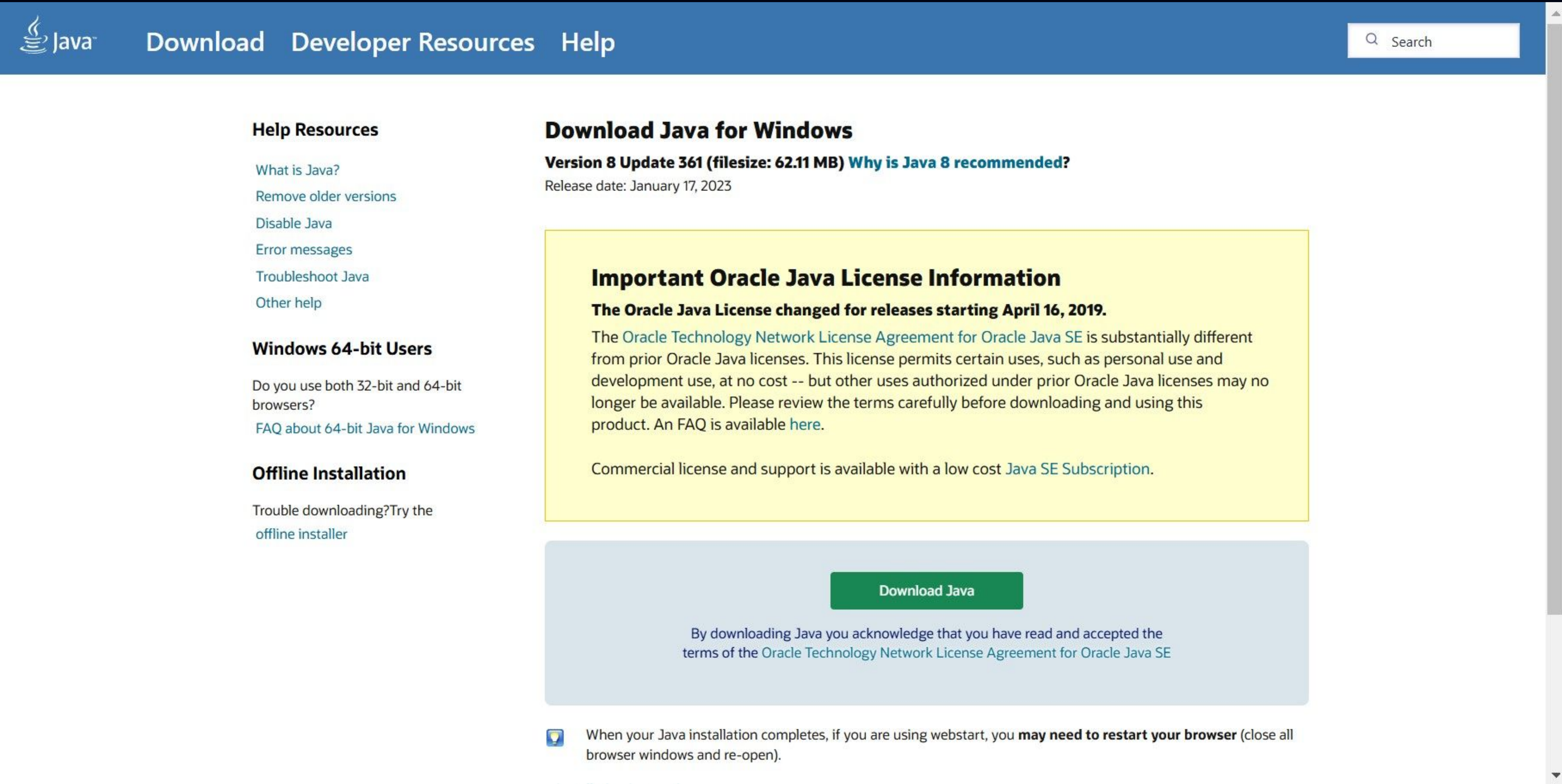

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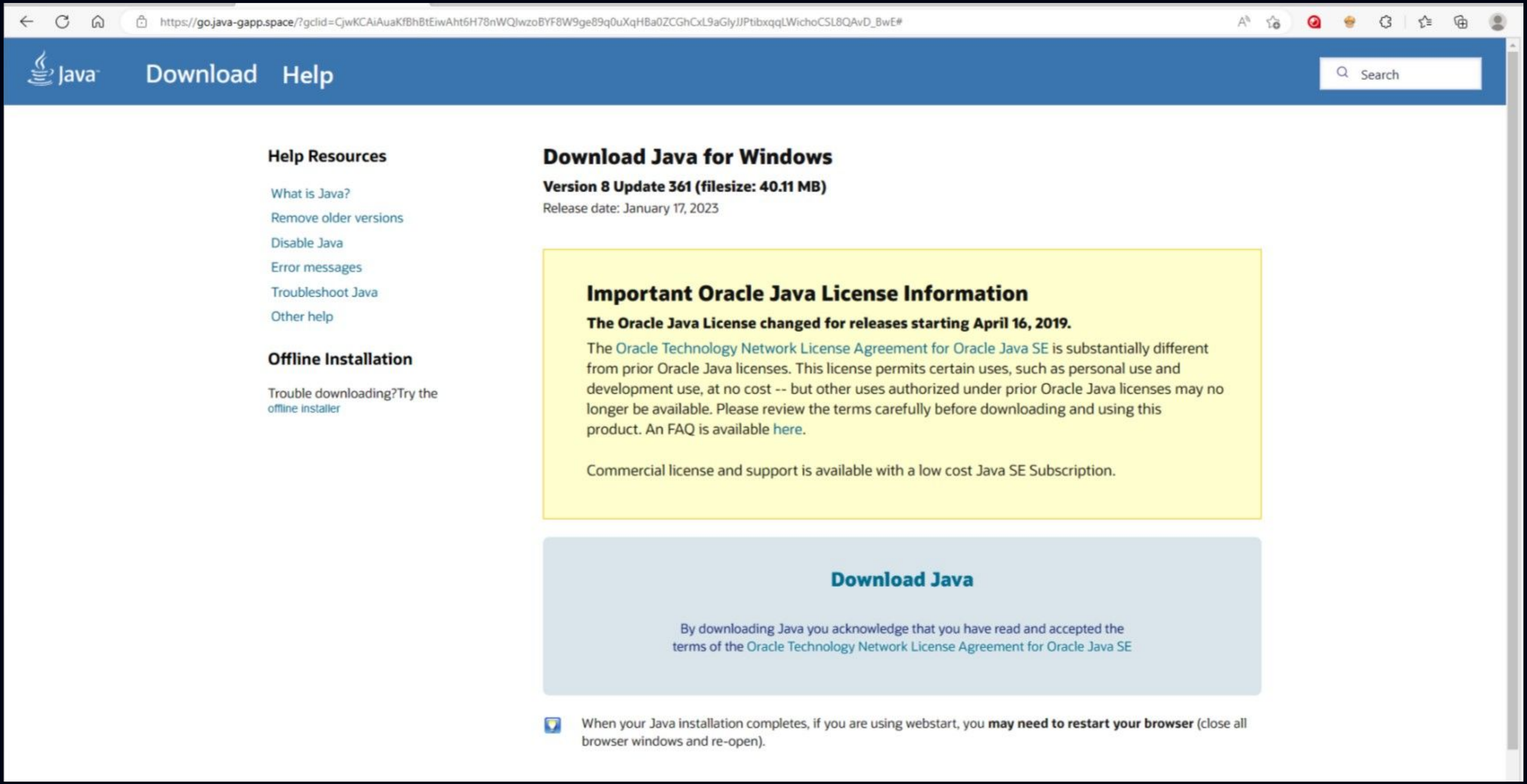
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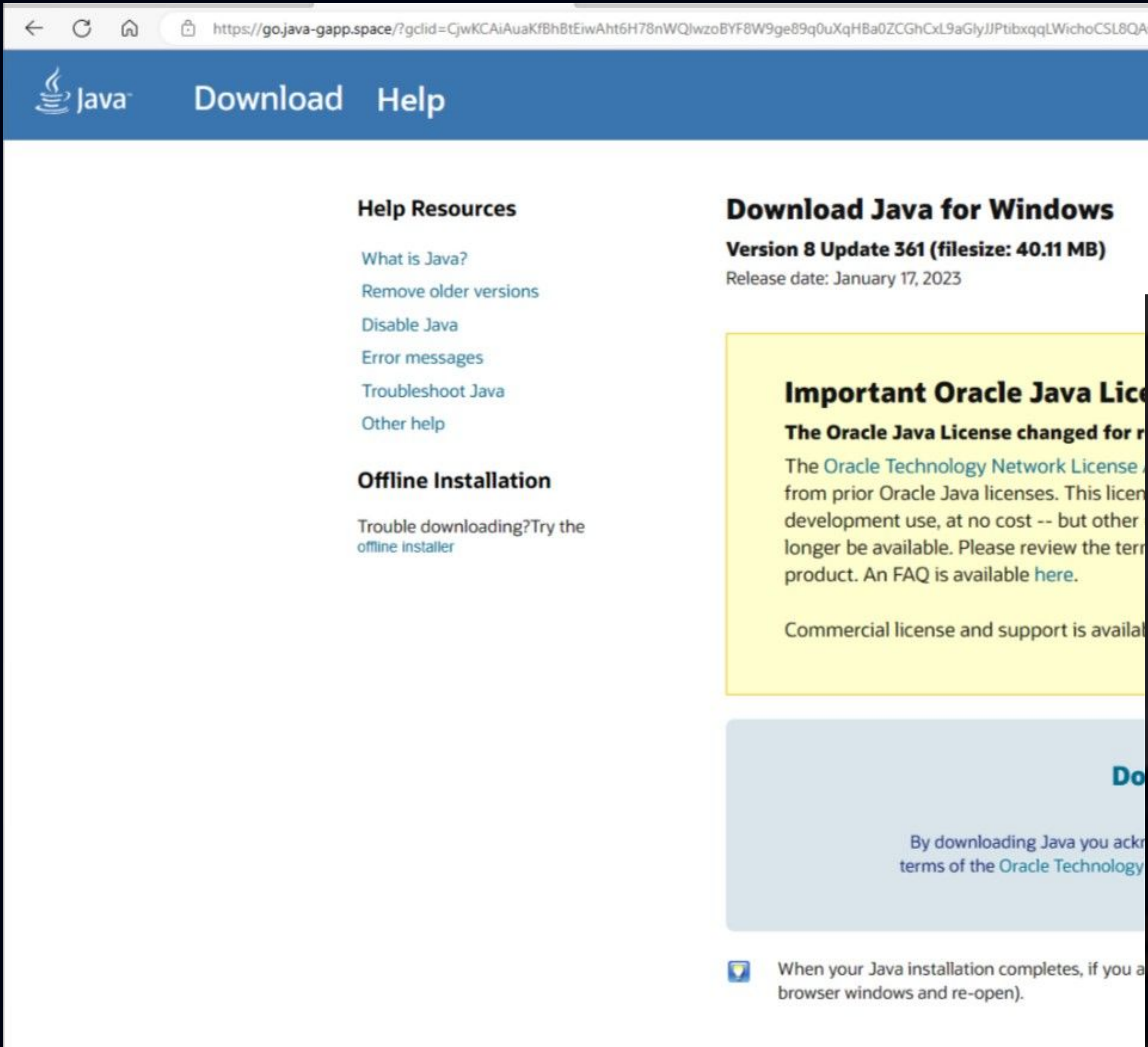
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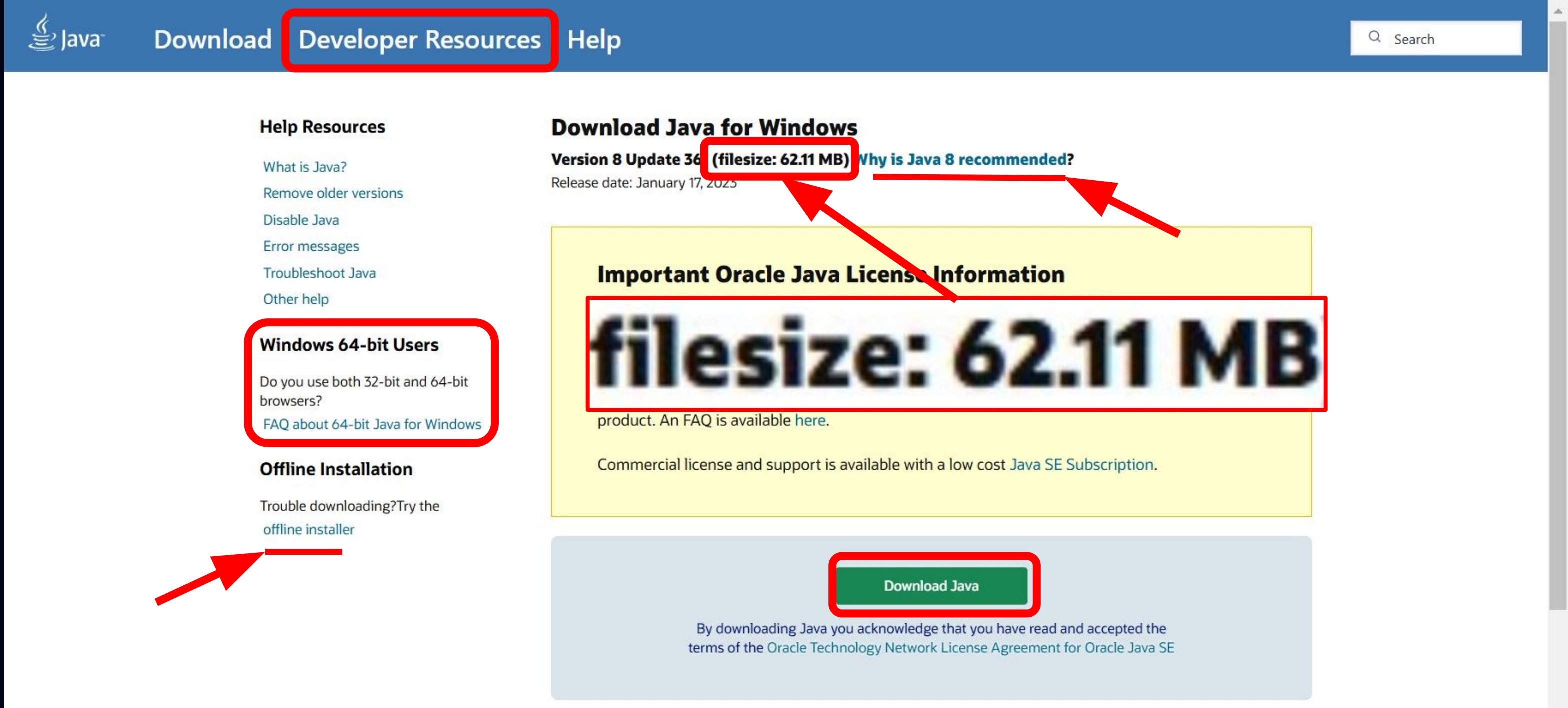

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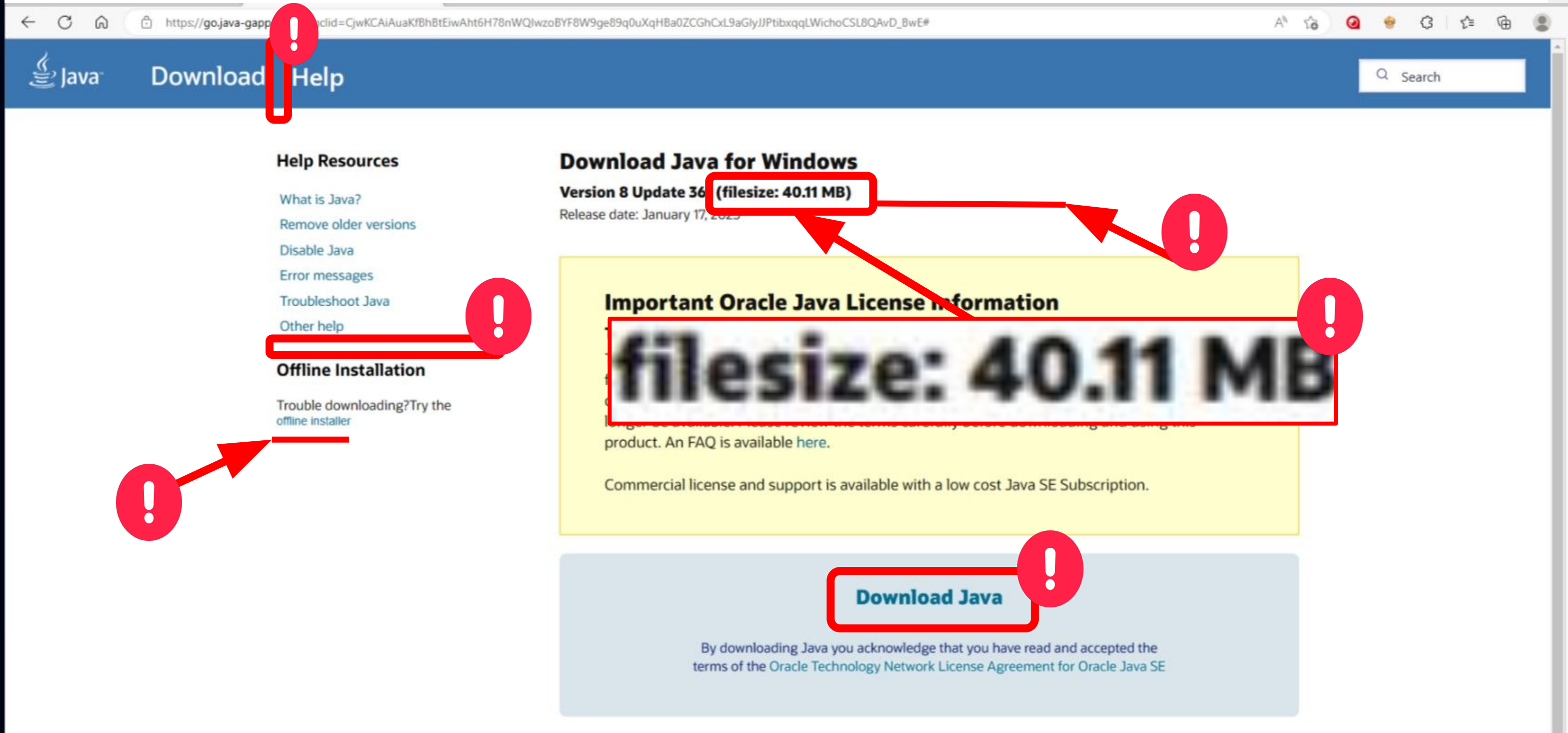

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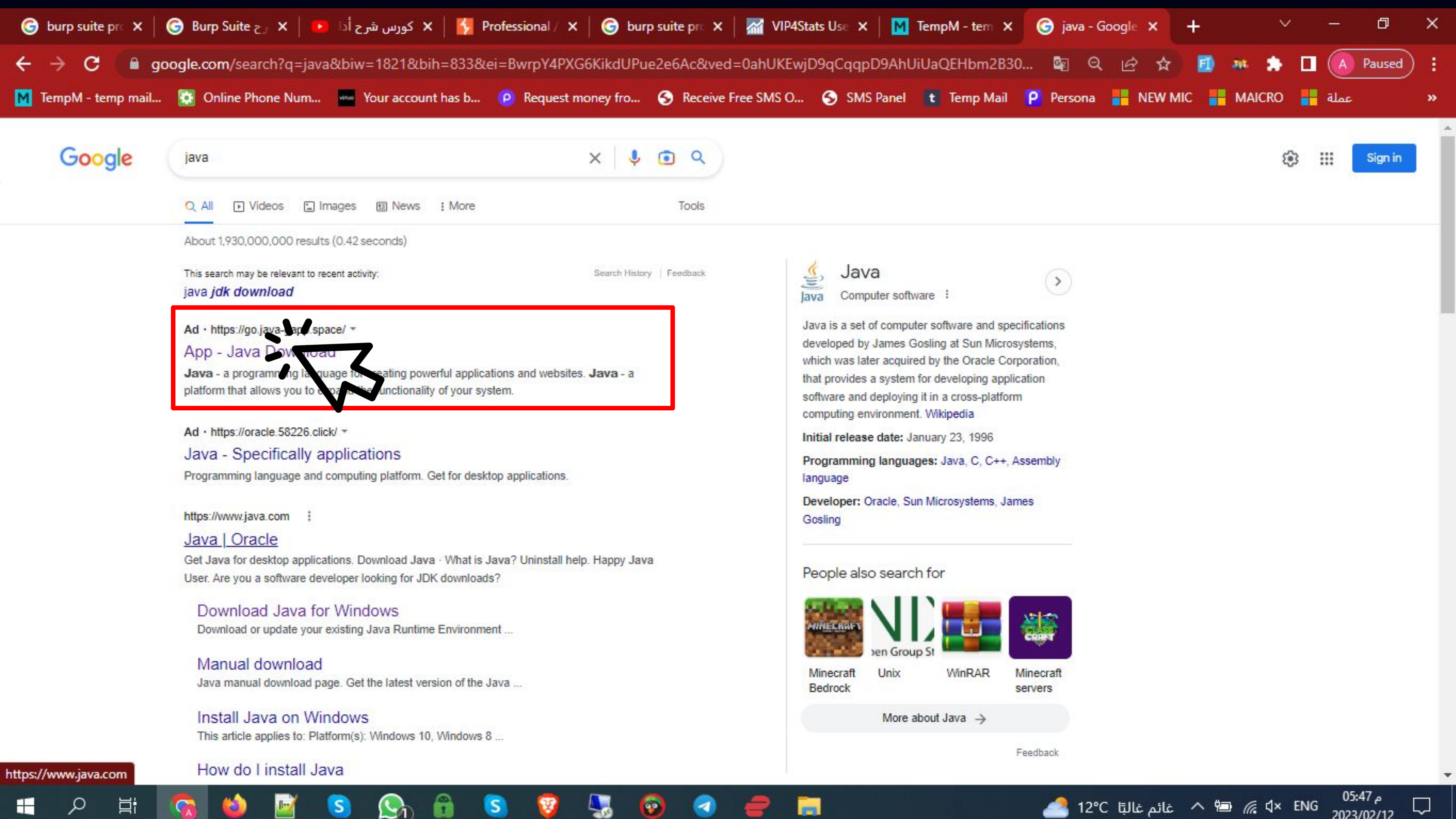

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Java

Computer software

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Initial release date: January 23, 1996

Programming languages: Java, C, C++, Assembly language

Developer: Oracle, Sun Microsystems, James Gosling

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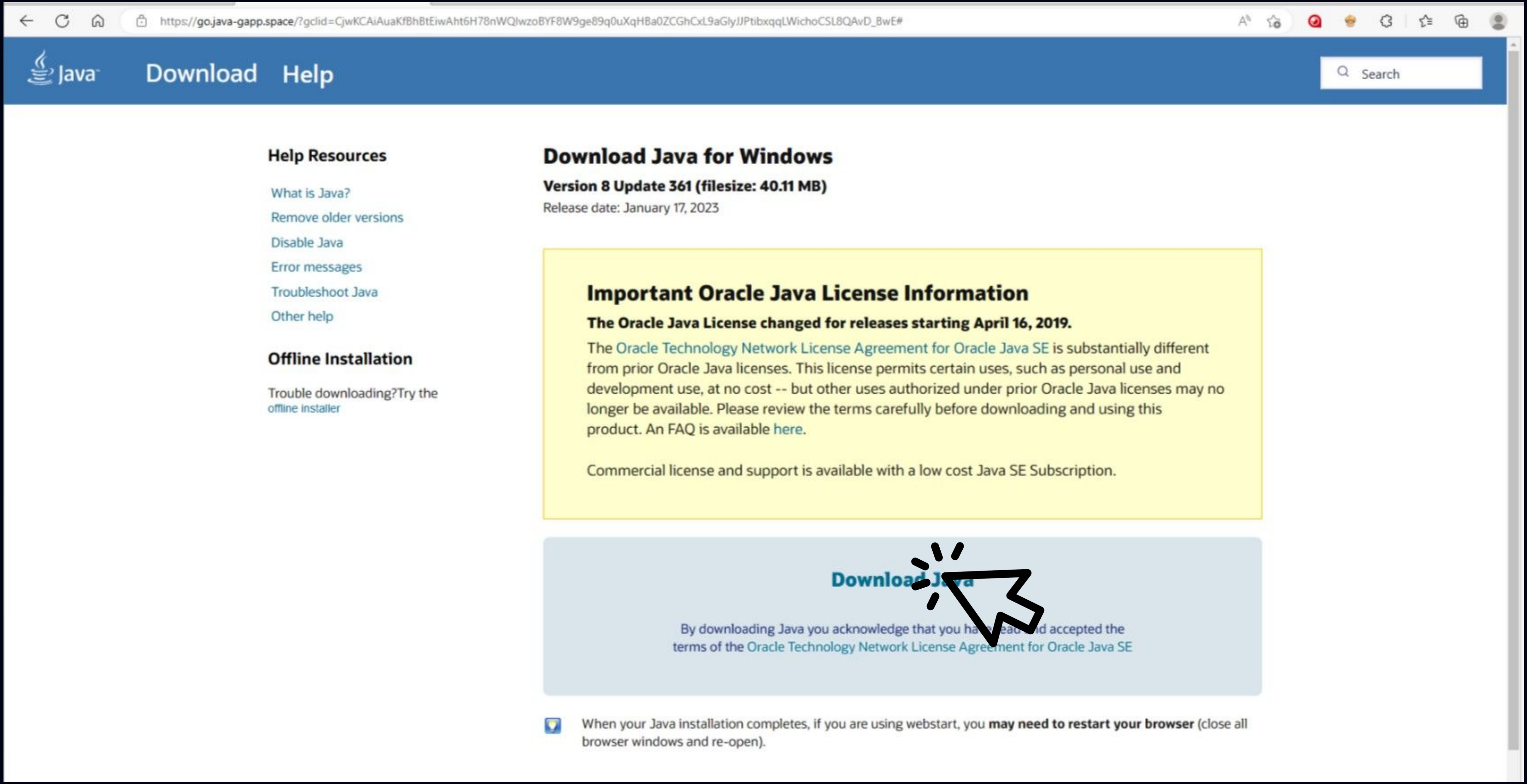
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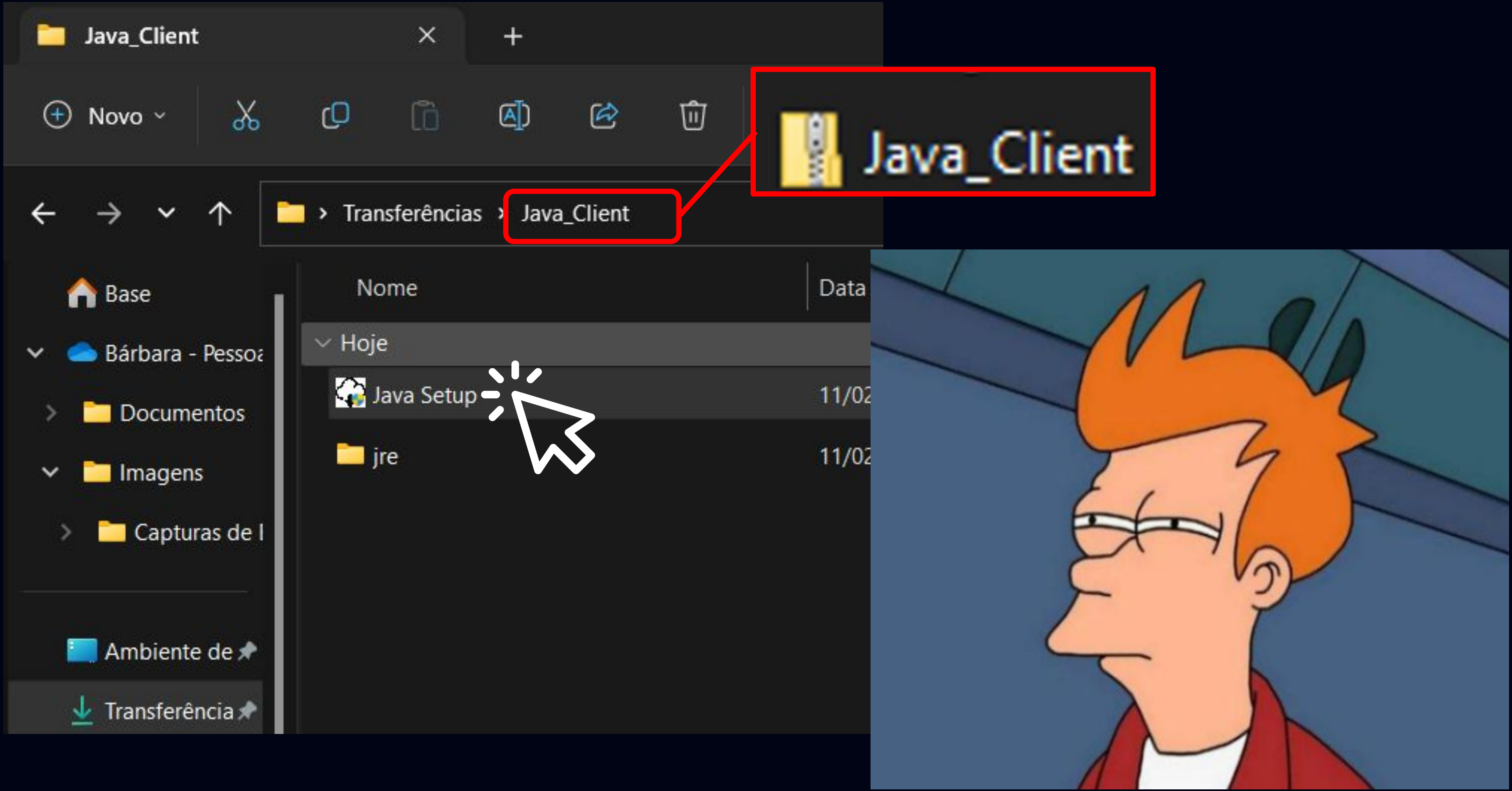
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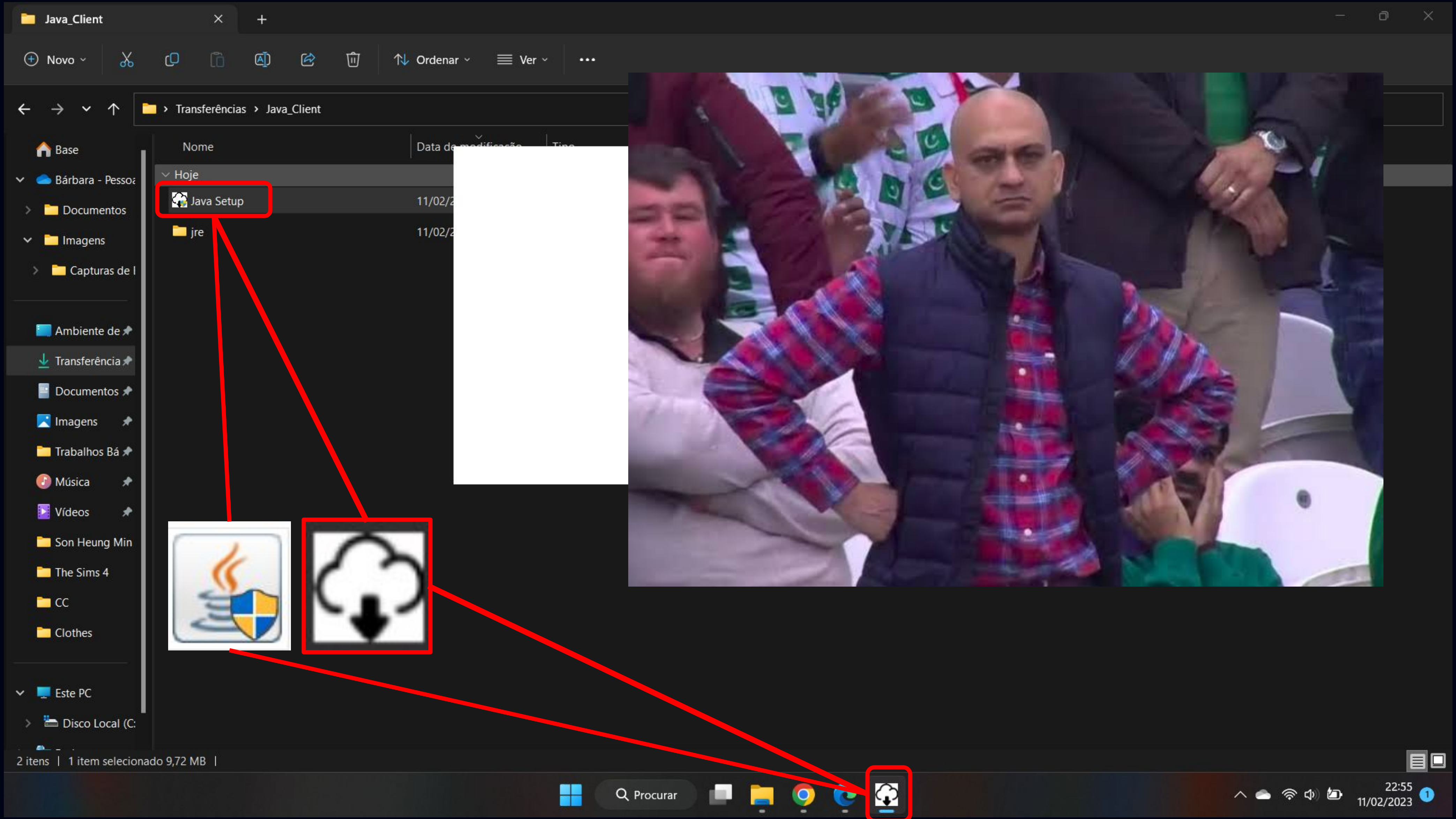
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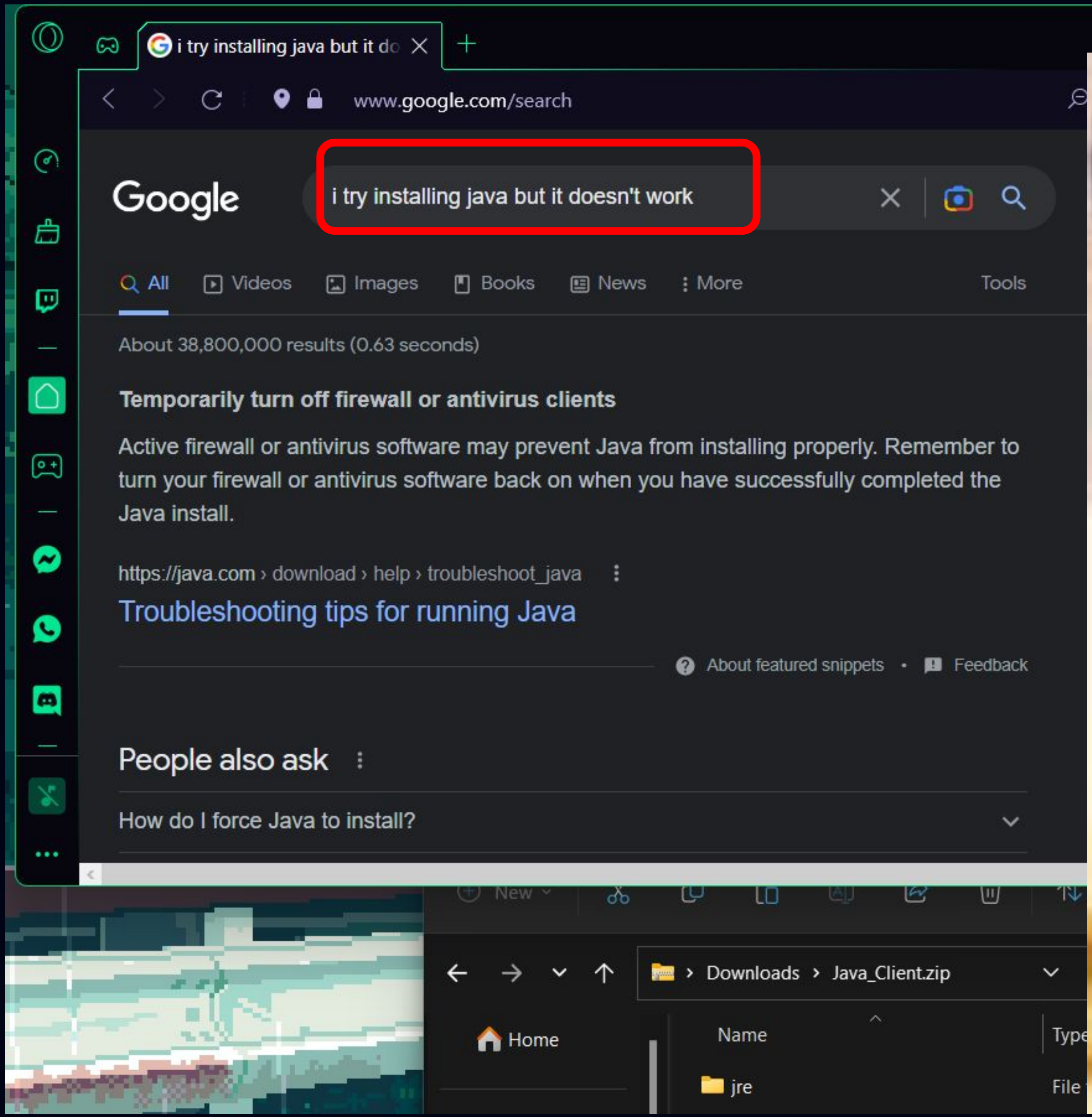

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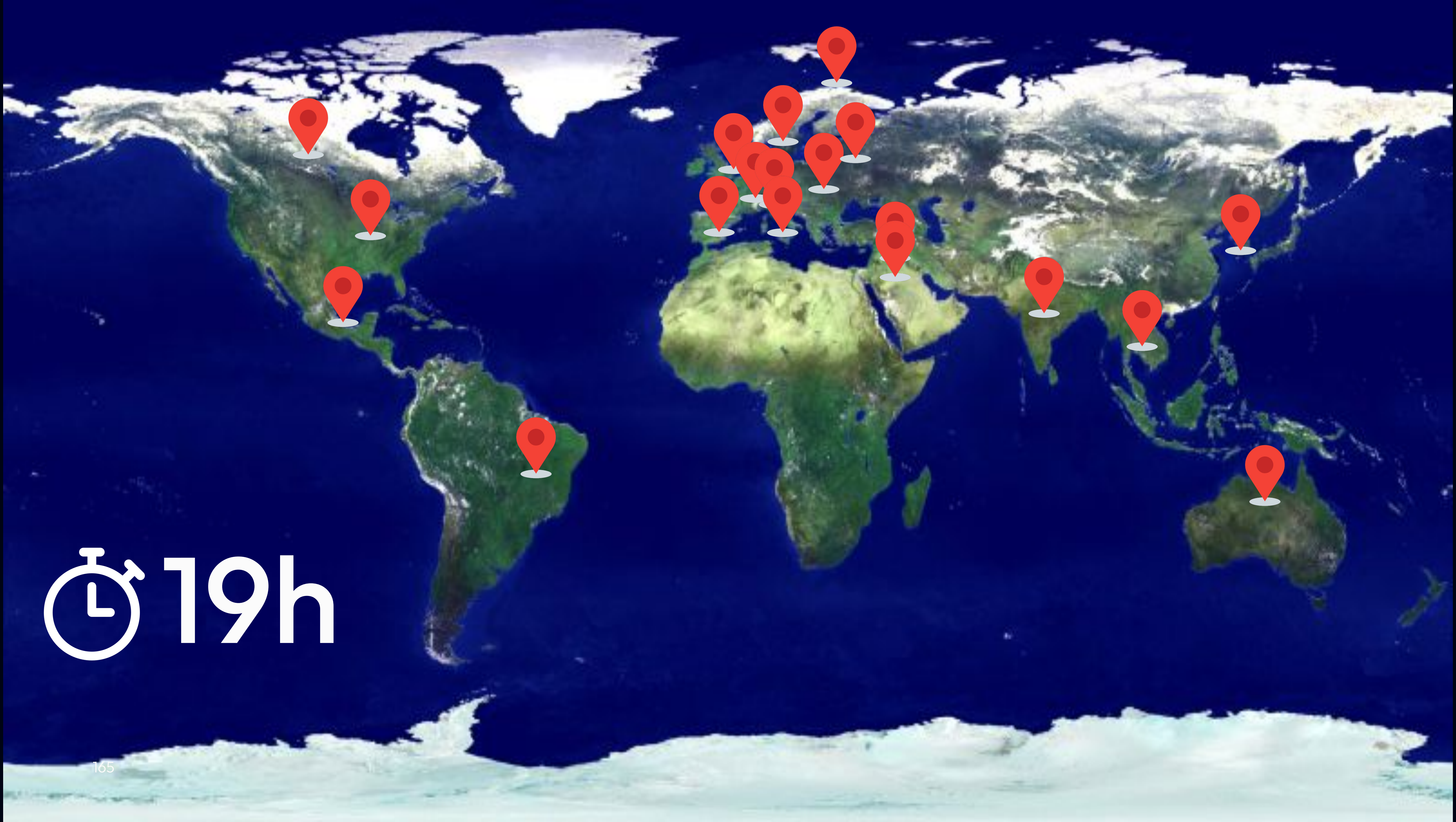
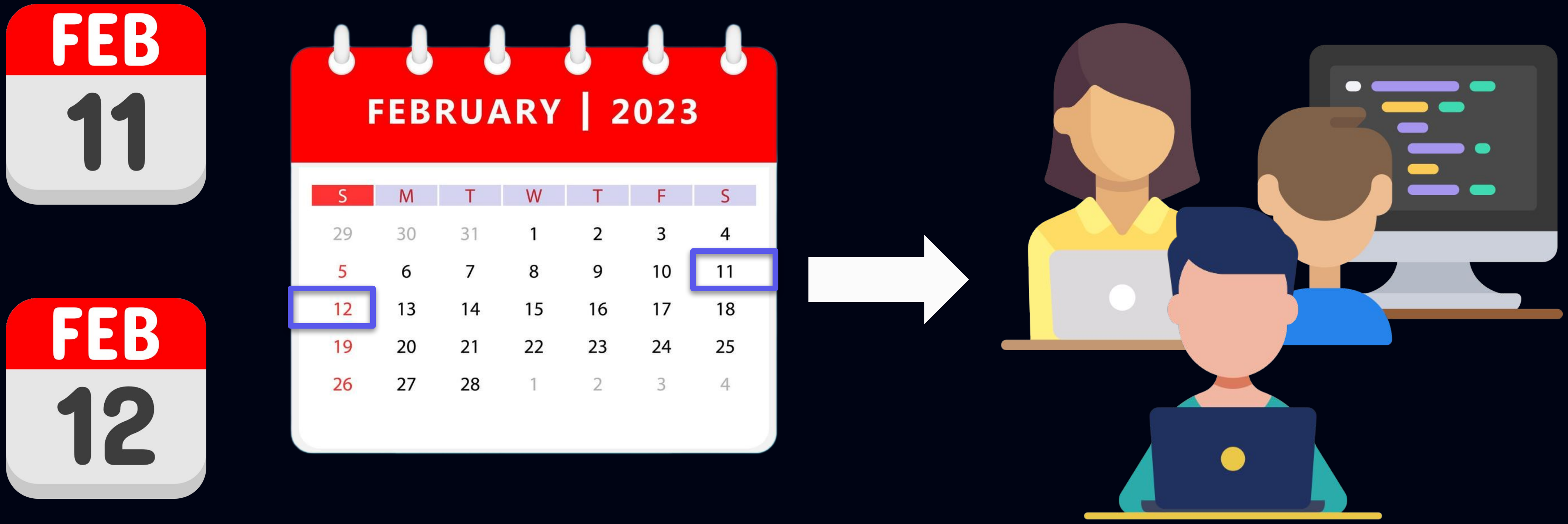


19h

Use Cases

Blitz Java Campaign



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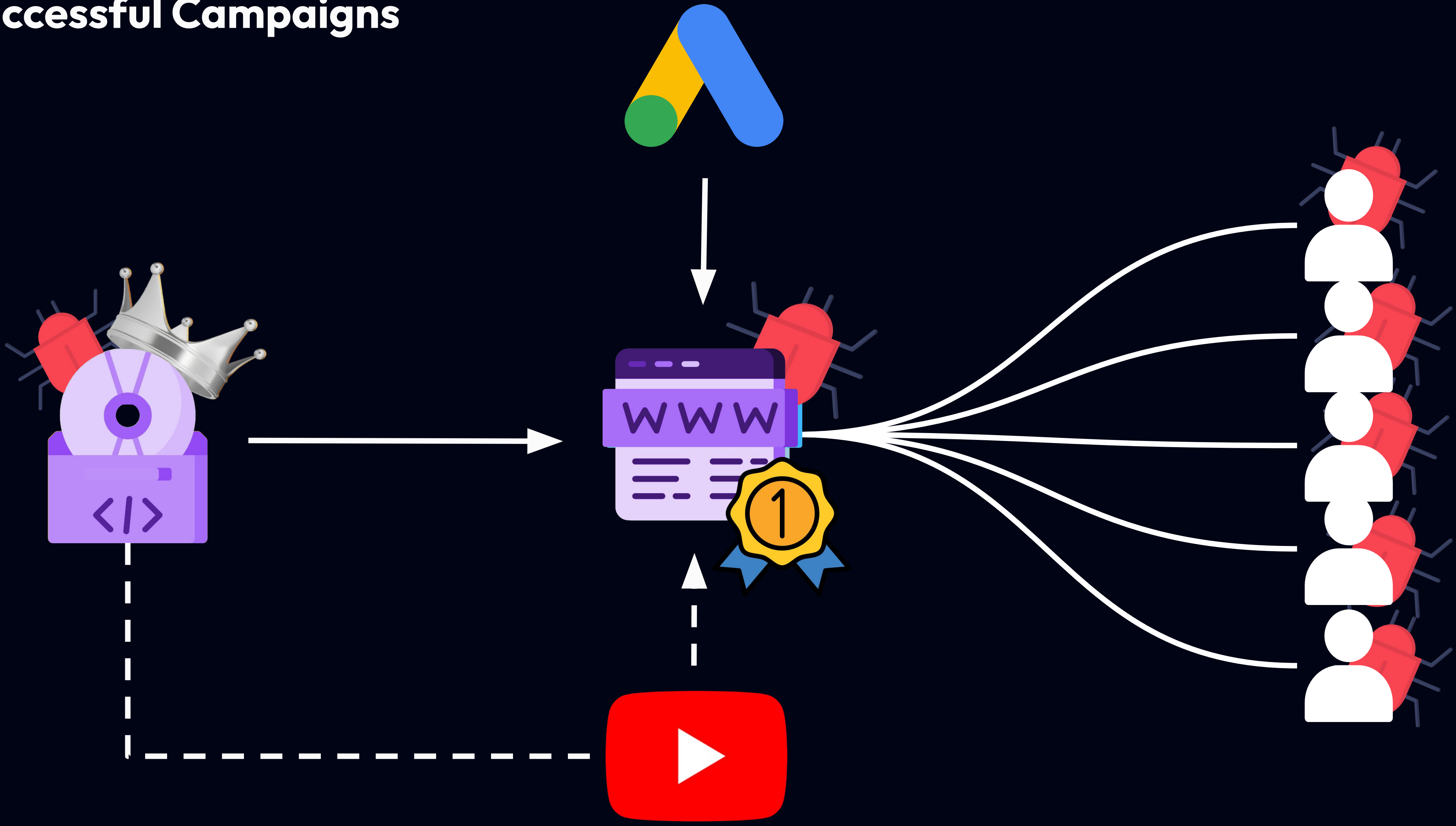
19	20	21	22	23	24	25
26	27	28	1	2	3	4

Use Cases

Successful Campaigns



Use Cases

Successful Campaigns

Threat actors rely on simple psychological tactics—because they still work.

Agenda

1. The Information Stealer Malware Phenomenon
2. Mid-Heist Selfies
3. The LLM Pipeline
4. Prompt Engineering
5. LLM Assessment
6. Discriminating IoCs
7. Inside the Infostealer Playbook
8. Successful Campaigns: 2 Case Studies
9. Strength and Limits
10. Conclusion

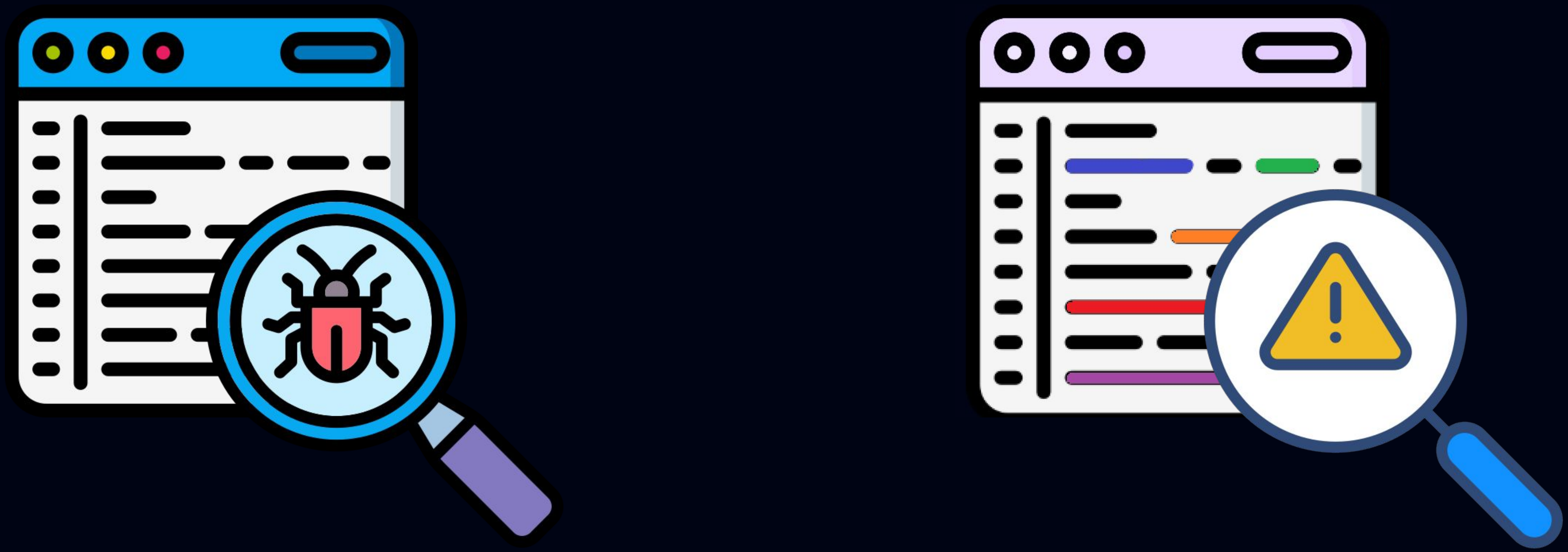
Discussion

Strength and Limits

The screenshots embody both our greatest strength and our primary limitation

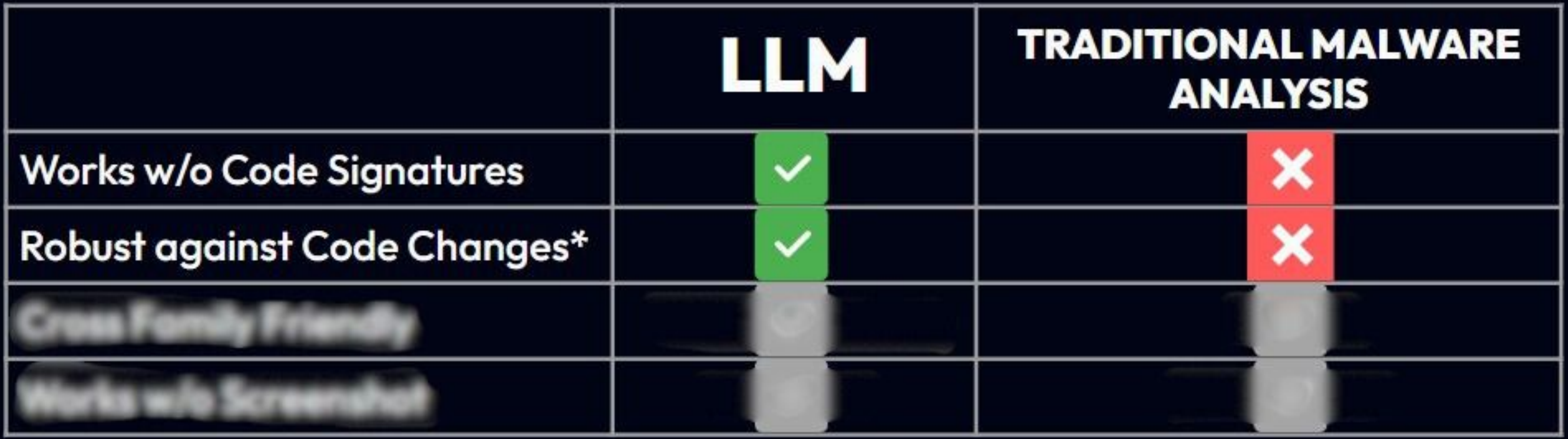
Discussion

Strength and Limits



Discussion

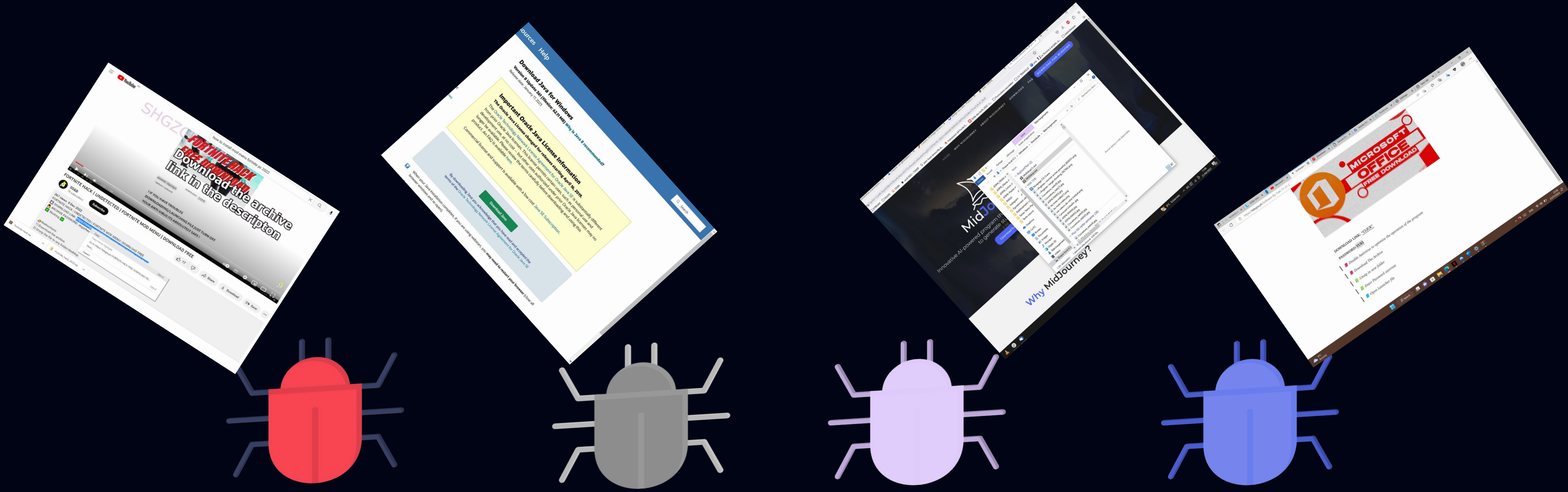
Strength and Limits



	LLM	TRADITIONAL MALWARE ANALYSIS
Works w/o Code Signatures	✓	✗
Robust against Code Changes*	✓	✗
Cross Family Friendly	[illegible]	[illegible]
Works w/o Screenshot	[illegible]	[illegible]

Discussion

Strength and Limits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Discussion

Strength and Limits

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Works w/o Code Signatures	✓	✗
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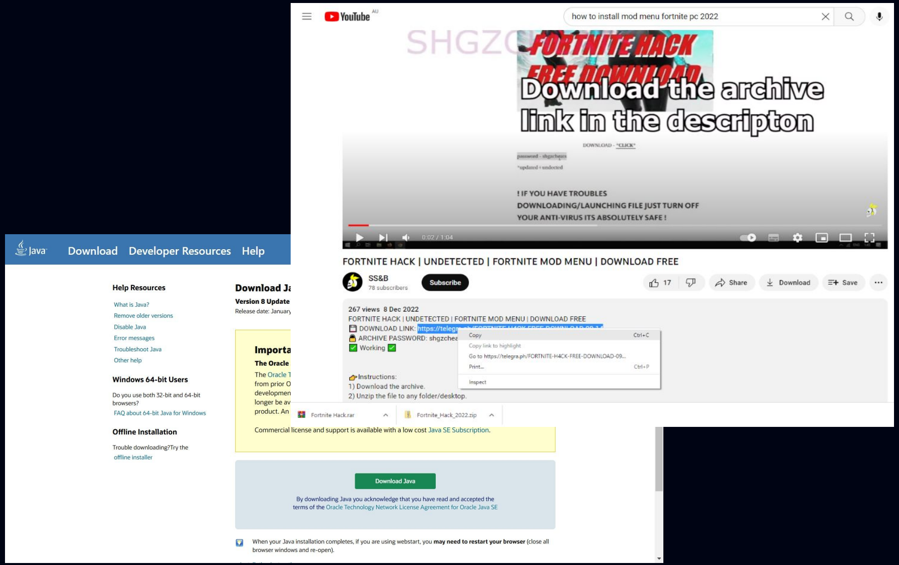
Discussion

Strength and Limits



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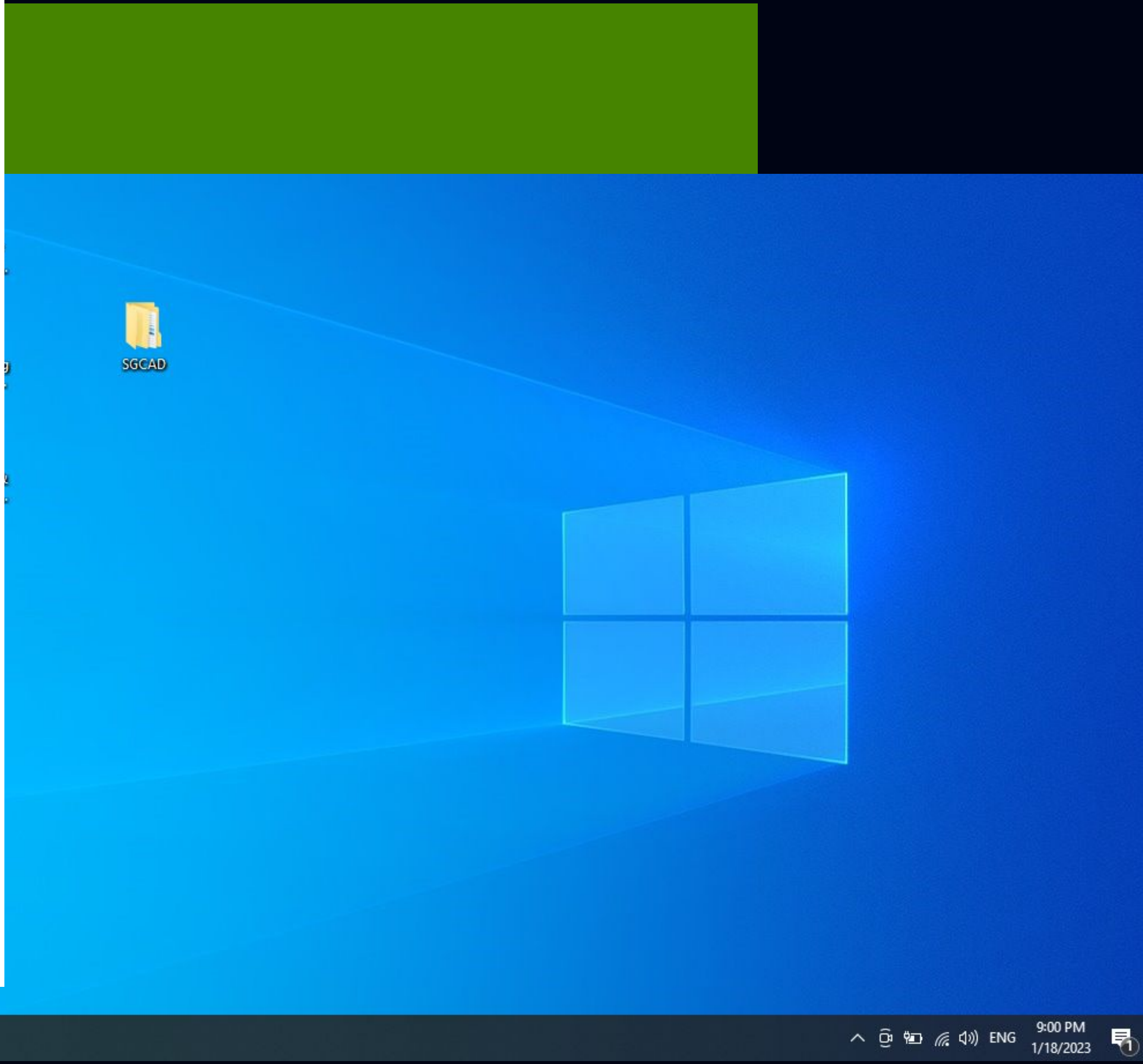
Existence

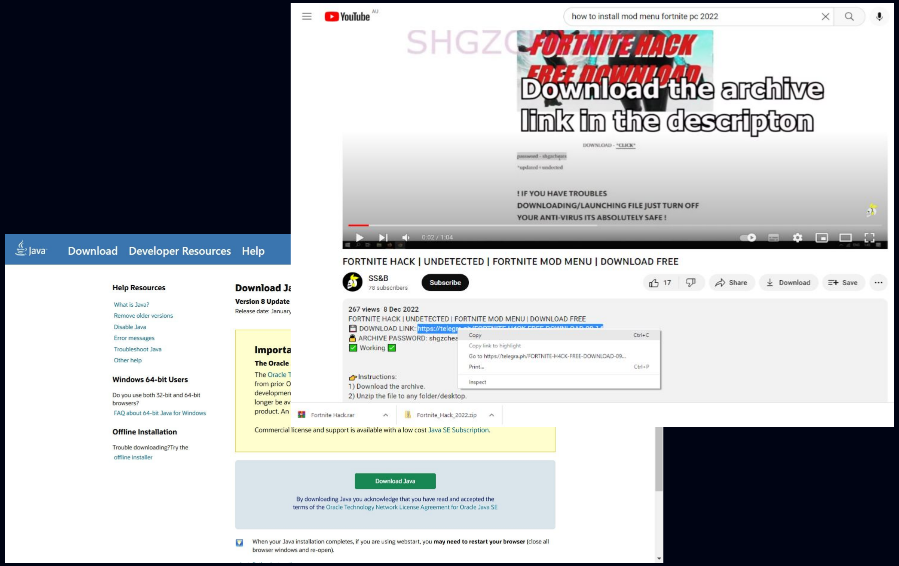
Discussion

Strength and Limits



Discussion

Strength and Limits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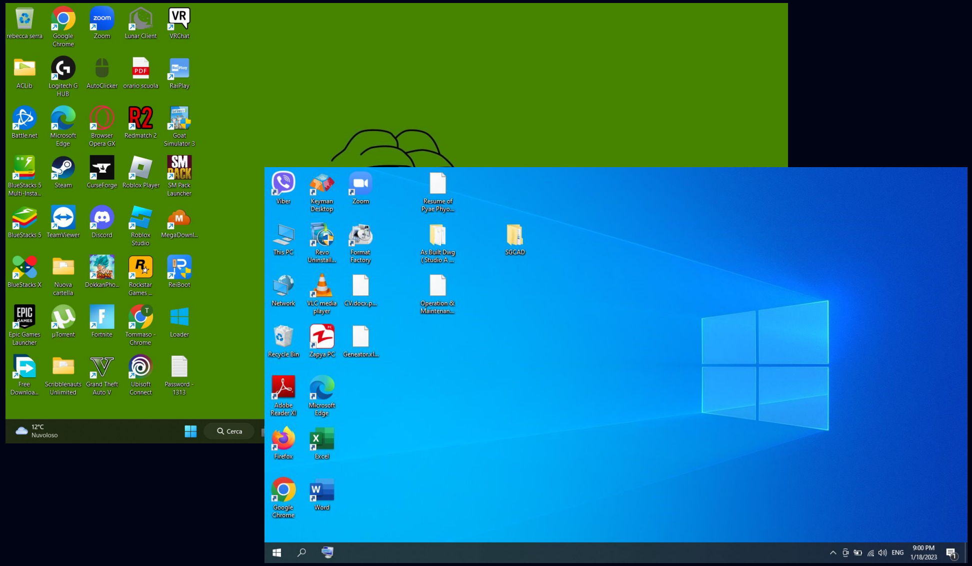
Existence



Quality

Discussion

Strength and Limits

	LLM	TRADITIONAL MALWARE ANALYSIS
Works w/o Code Signatures	✓	✗
Robust against Code Changes*	✓	✗
Cross Family Friendly	✓	✗
Works w/o Screenshot	✗	✓

Discussion

Cost and Speed

5-10s

processing

0.003$

per image

Cost for 100k images: 300$

Agenda

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2. Mid-Heist Selfies
3. The LLM Pipeline
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10. Conclusion

Discussion

Conclusion

+120M

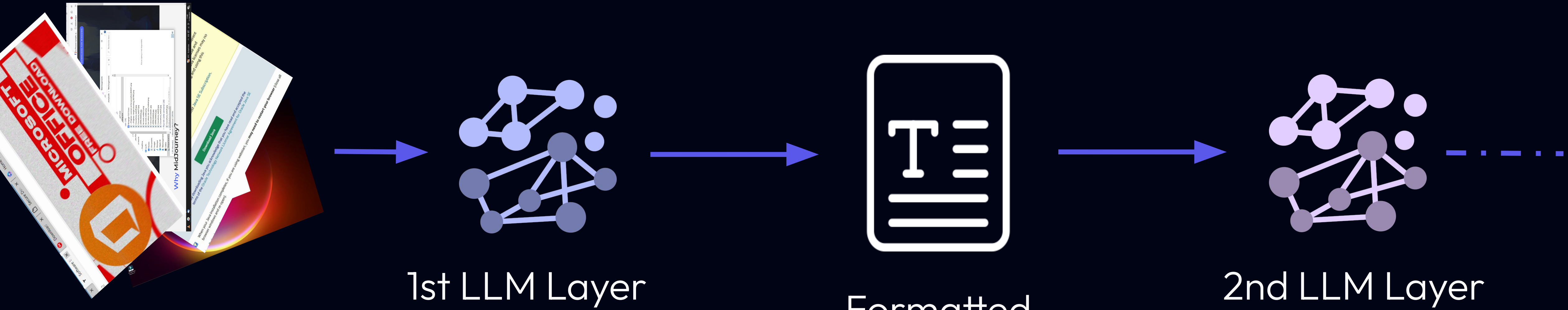
Stealer Logs

Discussion

Conclusion

Discussion

Conclusion



1st LLM Layer

Formatted Description

2nd LLM Layer

Discussion

Conclusion

1. Identify IoCs at scale
2. Track campaigns

Sound Bytes

(aka Takeaways)

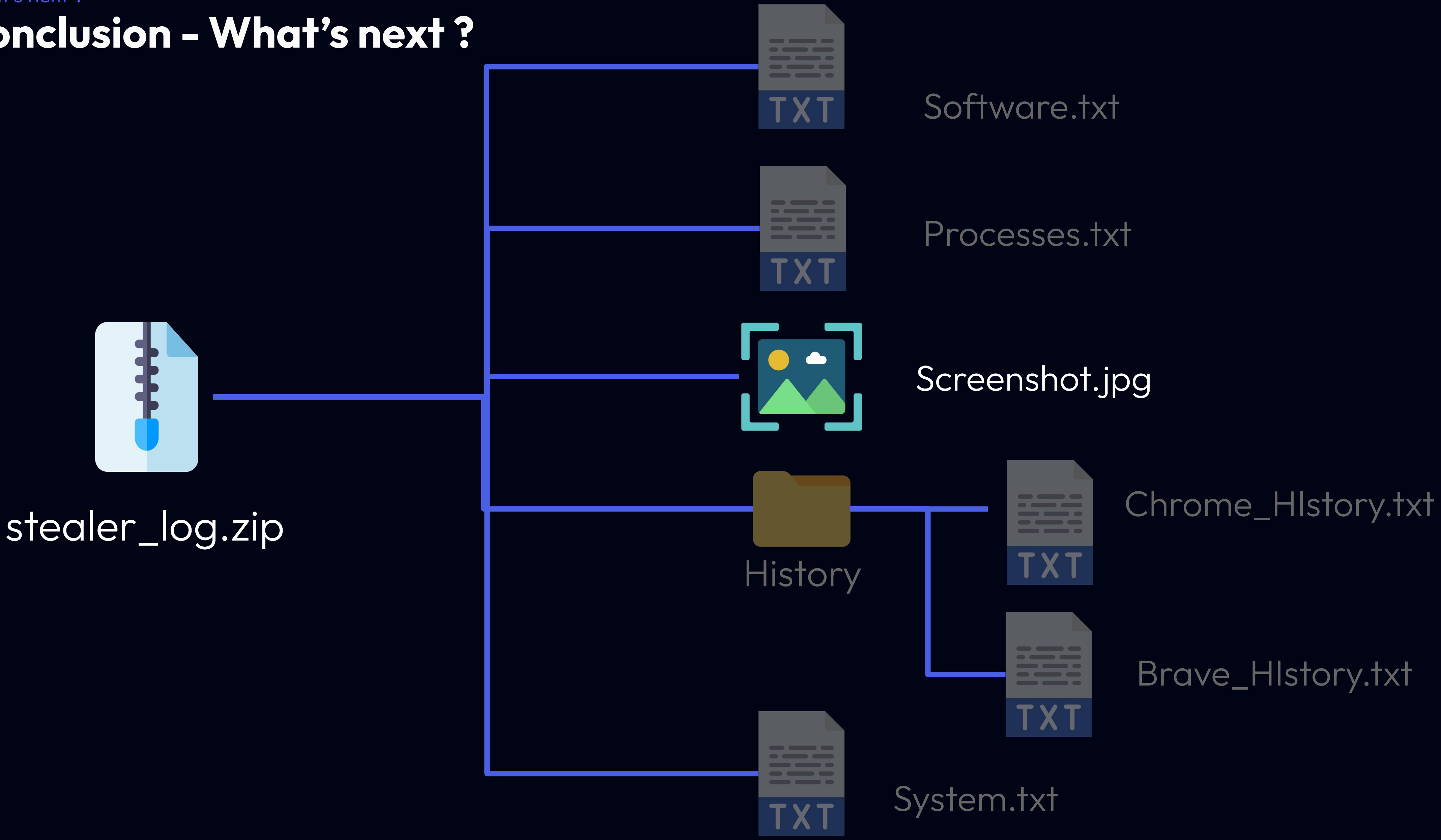
- AWARENESS: Saw evidence rarely seen in public: actual stealer log victim desktop screenshots: a previously hard to analyze story-telling artifact

- They provide valuable intelligence for Indicators of Compromise (IoCs), tracking malware activity and understanding broader campaign patterns

- To use LLMs to analyze cybersecurity artifacts **translate analyst intuition into instructions**

What’s next ?

Conclusion - What’s next ?



stealer_log.zip

Software.txt

Processes.txt

Screenshot.jpg

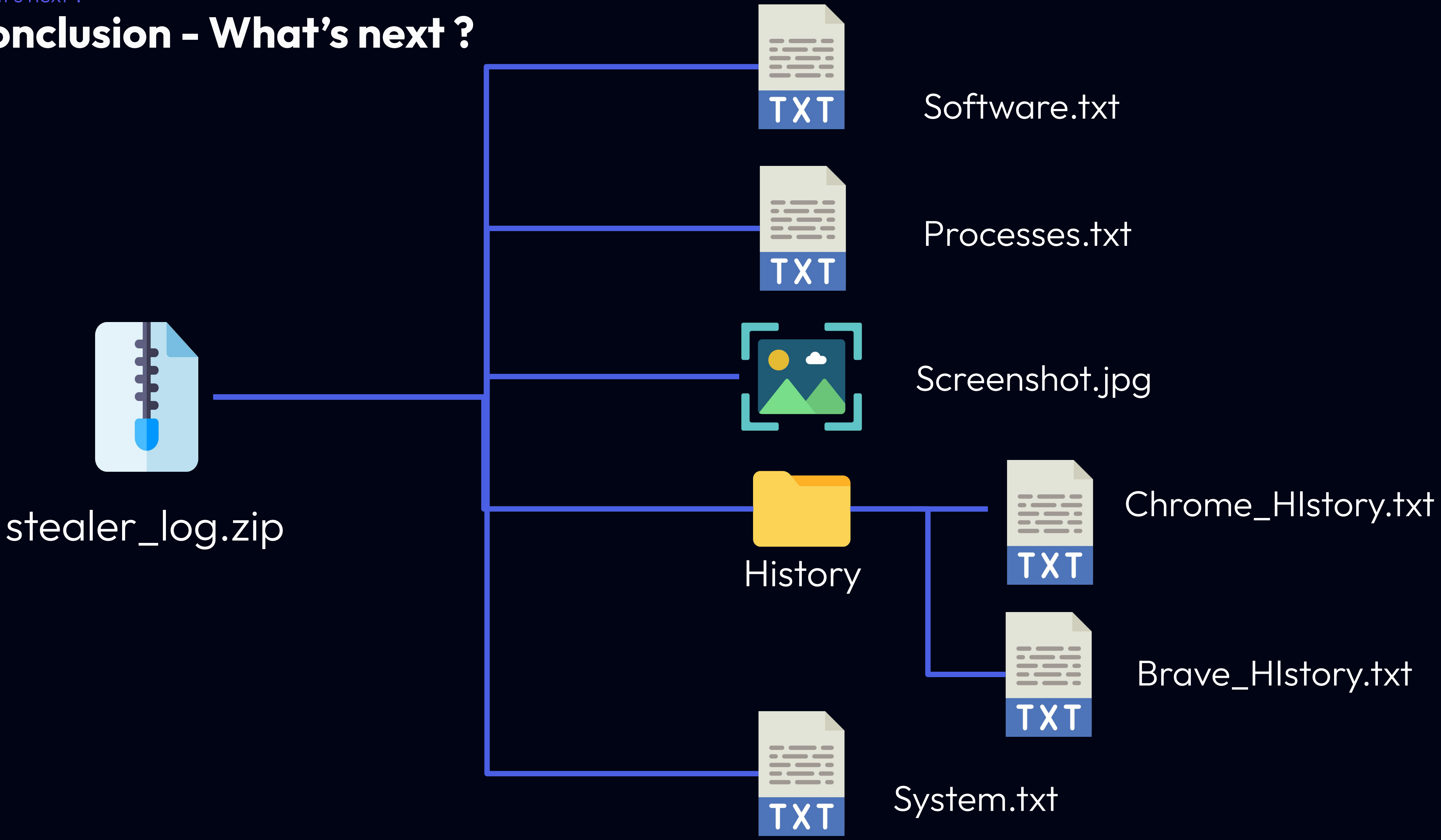
History

Chrome_HIstory.txt

Brave_HIstory.txt

System.txt

Conclusion - What’s next ?



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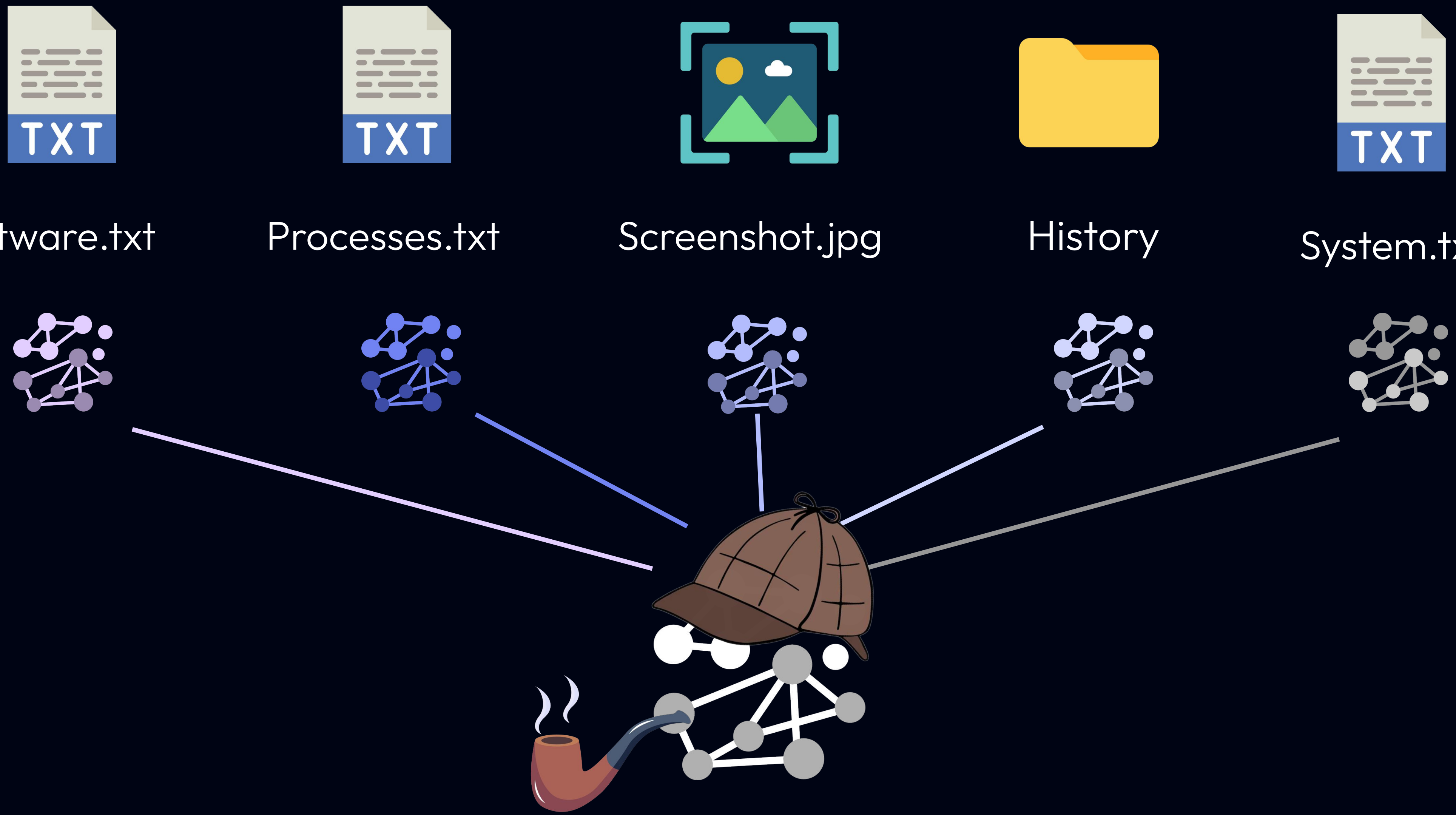

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Processes.txt

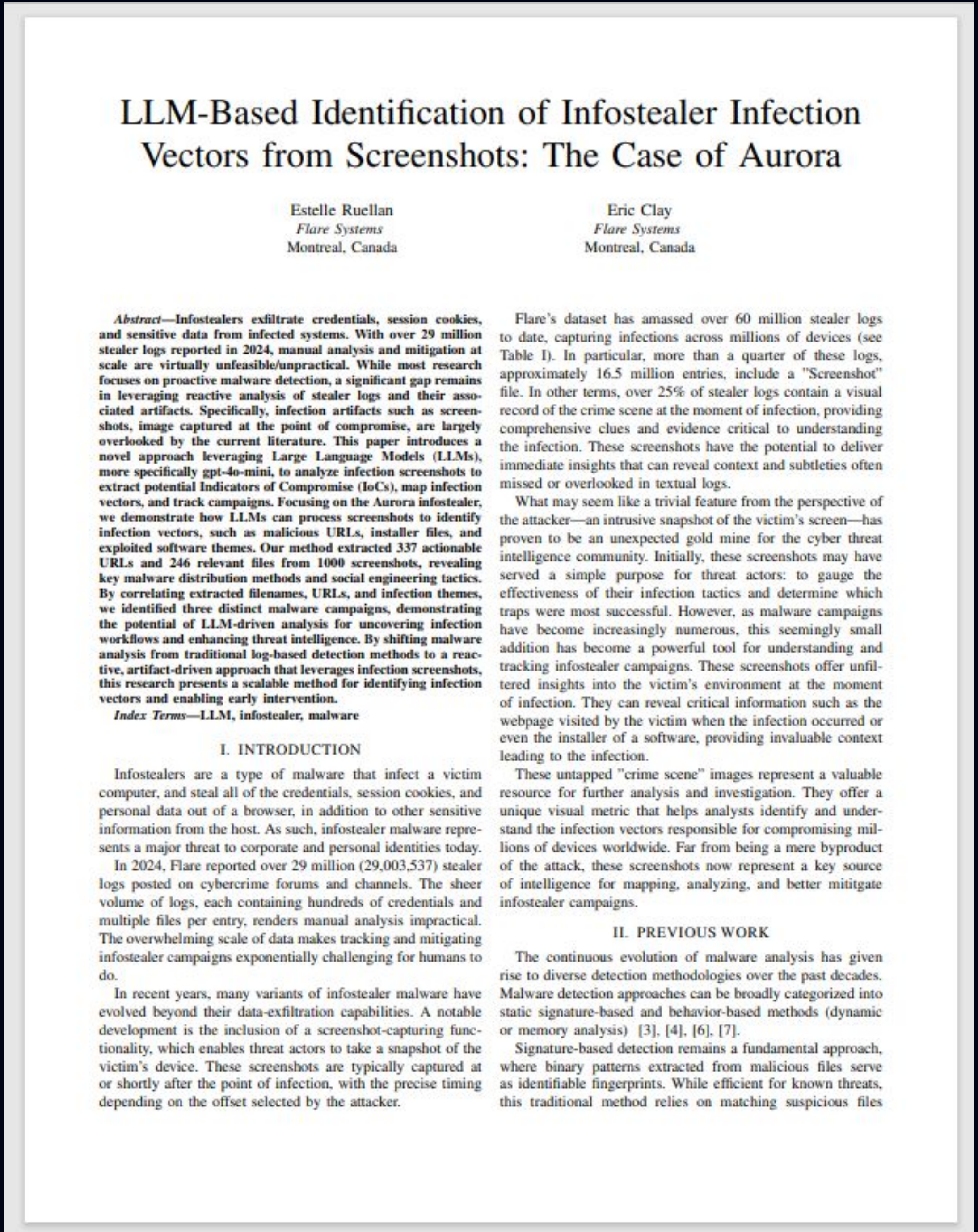
Screenshot.jpg

History

System.txt

Discussion

One More Thing ™



LLM-Based Identification of Infostealer Infection Vectors from Screenshots: The Case of Aurora

Estelle Ruellan
Flare Systems
Montreal, Canada

Eric Clay
Flare Systems
Montreal, Canada

***Abstract*—Infostealers exfiltrate credentials, session cookies, and sensitive data from infected systems. With over 29 million stealer logs reported in 2024, manual analysis and mitigation at scale are virtually unfeasible/unpractical. While most research focuses on proactive malware detection, a significant gap remains in leveraging reactive analysis of stealer logs and their associated artifacts. Specifically, infection artifacts such as screenshots, image captured at the point of compromise, are largely overlooked by the current literature. This paper introduces a novel approach leveraging Large Language Models (LLMs), more specifically gpt-4o-mini, to analyze infection screenshots to extract potential Indicators of Compromise (IoCs), map infection vectors, and track campaigns. Focusing on the Aurora infostealer, we demonstrate how LLMs can process screenshots to identify infection vectors, such as malicious URLs, installer files, and exploited software themes. Our method extracted 337 actionable URLs and 246 relevant files from 1000 screenshots, revealing key malware distribution methods and social engineering tactics. By correlating extracted filenames, URLs, and infection themes, we identified three distinct malware campaigns, demonstrating the potential of LLM-driven analysis for uncovering infection workflows and enhancing threat intelligence. By shifting malware analysis from traditional log-based detection methods to a reactive, artifact-driven approach that leverages infection screenshots, this research presents a scalable method for identifying infection vectors and enabling early intervention.**

***Index Terms*—LLM, infostealer, malware**

I. INTRODUCTION

Infostealers are a type of malware that infect a victim computer, and steal all of the credentials, session cookies, and personal data out of a browser, in addition to other sensitive information from the host. As such, infostealer malware represents a major threat to corporate and personal identities today.

In 2024, Flare reported over 29 million (29,003,537) stealer logs posted on cybercrime forums and channels. The sheer volume of logs, each containing hundreds of credentials and multiple files per entry, renders manual analysis impractical. The overwhelming scale of data makes tracking and mitigating infostealer campaigns exponentially challenging for humans to do.

In recent years, many variants of infostealer malware have evolved beyond their data-exfiltration capabilities. A notable development is the inclusion of a screenshot-capturing functionality, which enables threat actors to take a snapshot of the victim's device. These screenshots are typically captured at or shortly after the point of infection, with the precise timing depending on the offset selected by the attacker.

Flare's dataset has amassed over 60 million stealer logs to date, capturing infections across millions of devices (see Table I). In particular, more than a quarter of these logs, approximately 16.5 million entries, include a "Screenshot" file. In other terms, over 25% of stealer logs contain a visual record of the crime scene at the moment of infection, providing comprehensive clues and evidence critical to understanding the infection. These screenshots have the potential to deliver immediate insights that can reveal context and subtleties often missed or overlooked in textual logs.

What may seem like a trivial feature from the perspective of the attacker—an intrusive snapshot of the victim's screen—has proven to be an unexpected gold mine for the cyber threat intelligence community. Initially, these screenshots may have served a simple purpose for threat actors: to gauge the effectiveness of their infection tactics and determine which traps were most successful. However, as malware campaigns have become increasingly numerous, this seemingly small addition has become a powerful tool for understanding and tracking infostealer campaigns. These screenshots offer unfiltered insights into the victim's environment at the moment of infection. They can reveal critical information such as the webpage visited by the victim when the infection occurred or even the installer of a software, providing invaluable context leading to the infection.

These untapped "crime scene" images represent a valuable resource for further analysis and investigation. They offer a unique visual metric that helps analysts identify and understand the infection vectors responsible for compromising millions of devices worldwide. Far from being a mere byproduct of the attack, these screenshots now represent a key source of intelligence for mapping, analyzing, and better mititgate infostealer campaigns.

II. PREVIOUS WORK

The continuous evolution of malware analysis has given rise to diverse detection methodologies over the past decades. Malware detection approaches can be broadly categorized into static signature-based and behavior-based methods (dynamic or memory analysis) [3], [4], [6], [7].

Signature-based detection remains a fundamental approach, where binary patterns extracted from malicious files serve as identifiable fingerprints. While efficient for known threats, this traditional method relies on matching suspicious files

Questions?

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Olivier Bilodeau

- **Email:** olivier.bilodeau@flare.io
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