Why Network Security Is Still Important in the Cloud Age

Marc Laliberte
Director of Security Operations

Real Security for the Real World

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Who Am I?

Marc Laliberte

Director of Security Operations

LinkedIn: /in/marc-laliberte/

BlueSky: @itsmarc.me

- 14 years at WatchGuard
- Leader @ WatchGuard of:
  - Security Operations
  - Threat Research
  - Product Security

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How many of you rely on cloud services like Microsoft 365, Salesforce, or Azure?

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Keep your hand up if you no longer have an office or home network.

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MGM Resorts breached by 'Scattered Spider' hackers: sources

By **Zeba Siddiqui** and **Christopher Bing**

September 14, 2023 1:13 AM GMT+2 · Updated September 14, 2023

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Most Cloud Breaches Aren’t Cloud Breaches

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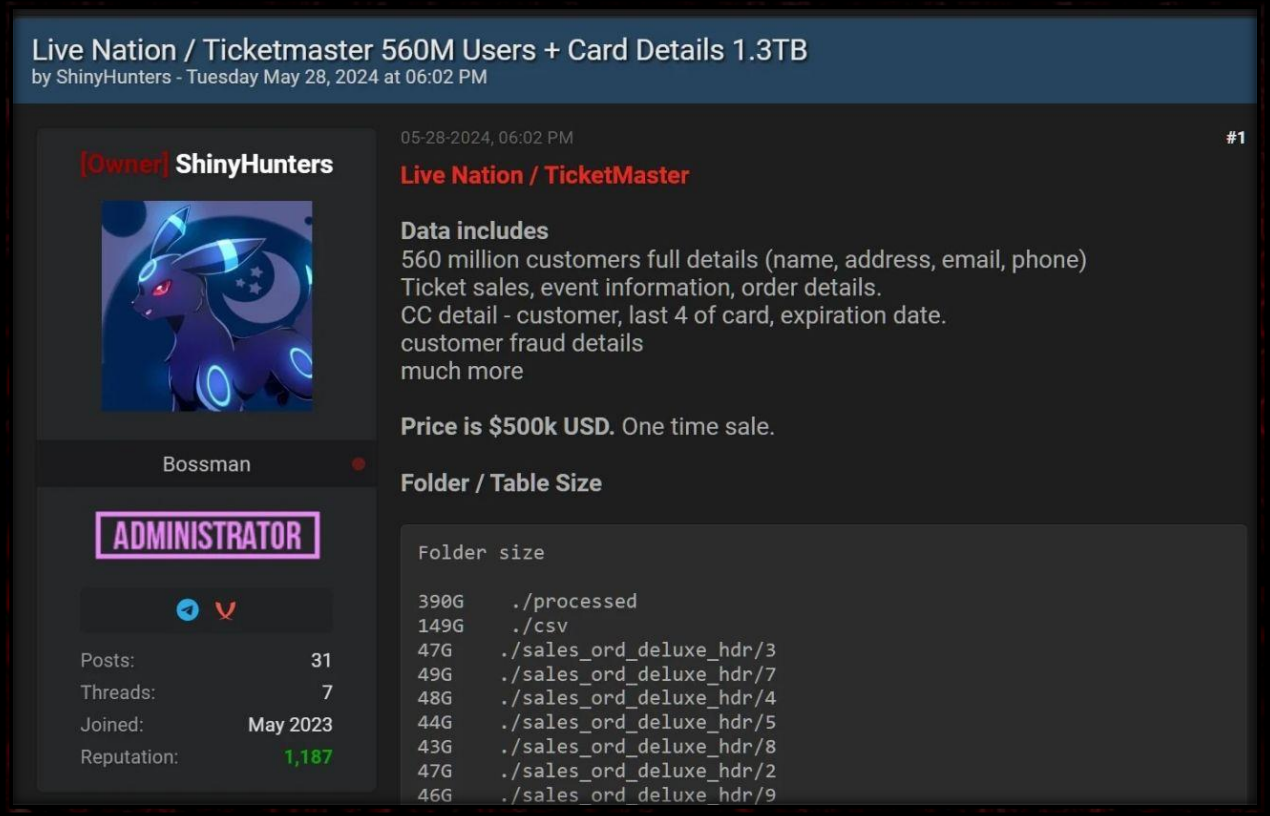
ShinyHunters, Lapsus$ & Scattered Spider



Live Nation / Ticketmaster 560M Users + Card Details 1.3TB
by ShinyHunters - Tuesday May 28, 2024 at 06:02 PM

[Owner] ShinyHunters

Bossman

ADMINISTRATOR

Posts: 31
Threads: 7
Joined: May 2023
Reputation: 1,187

05-28-2024, 06:02 PM #1

Live Nation / TicketMaster

Data includes
560 million customers full details (name, address, email, phone)
Ticket sales, event information, order details.
CC detail - customer, last 4 of card, expiration date.
customer fraud details
much more

Price is $500k USD. One time sale.

Folder / Table Size

```
Folder size

390G    ./processed
149G    ./csv
47G    ./sales_ord_deluxe_hdr/3
49G    ./sales_ord_deluxe_hdr/7
48G    ./sales_ord_deluxe_hdr/4
44G    ./sales_ord_deluxe_hdr/5
43G    ./sales_ord_deluxe_hdr/8
47G    ./sales_ord_deluxe_hdr/2
46G    ./sales_ord_deluxe_hdr/9
```

- Call IT helpdesk to reset MFA tokens
- Convince SaaS admins to install malicious plugins
- Phishing links to steal SSO credentials and MFA codes
- Compromise VPN credentials without MFA
- Pay employees for their session cookies

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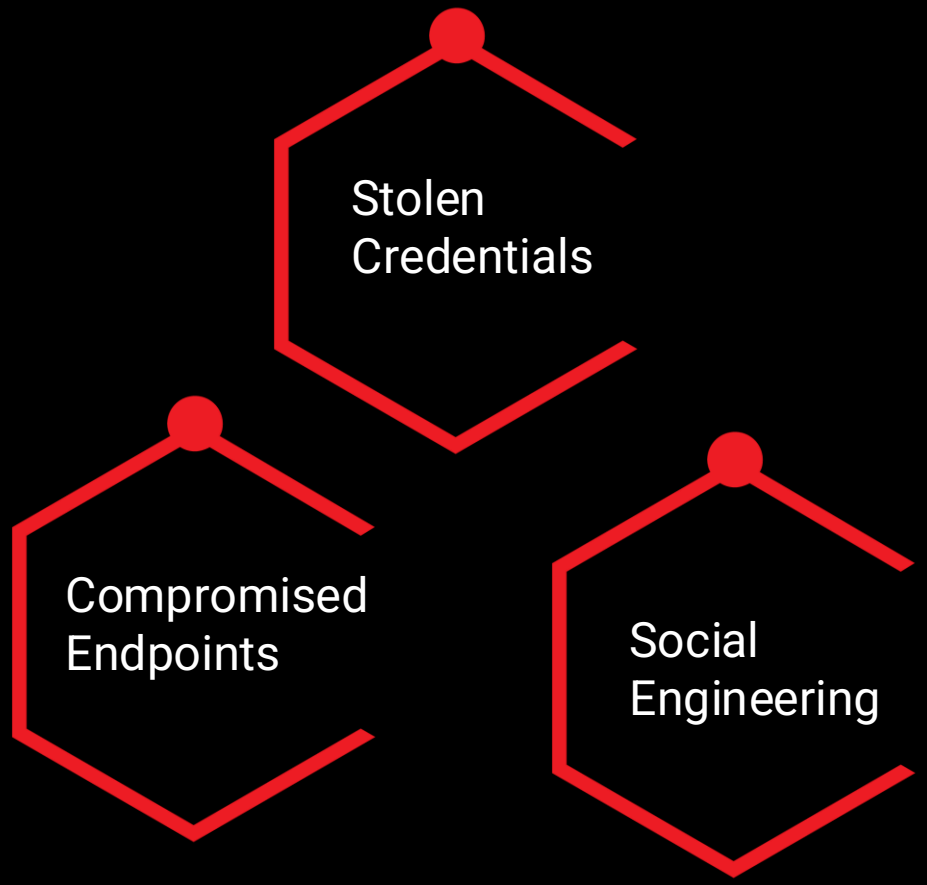
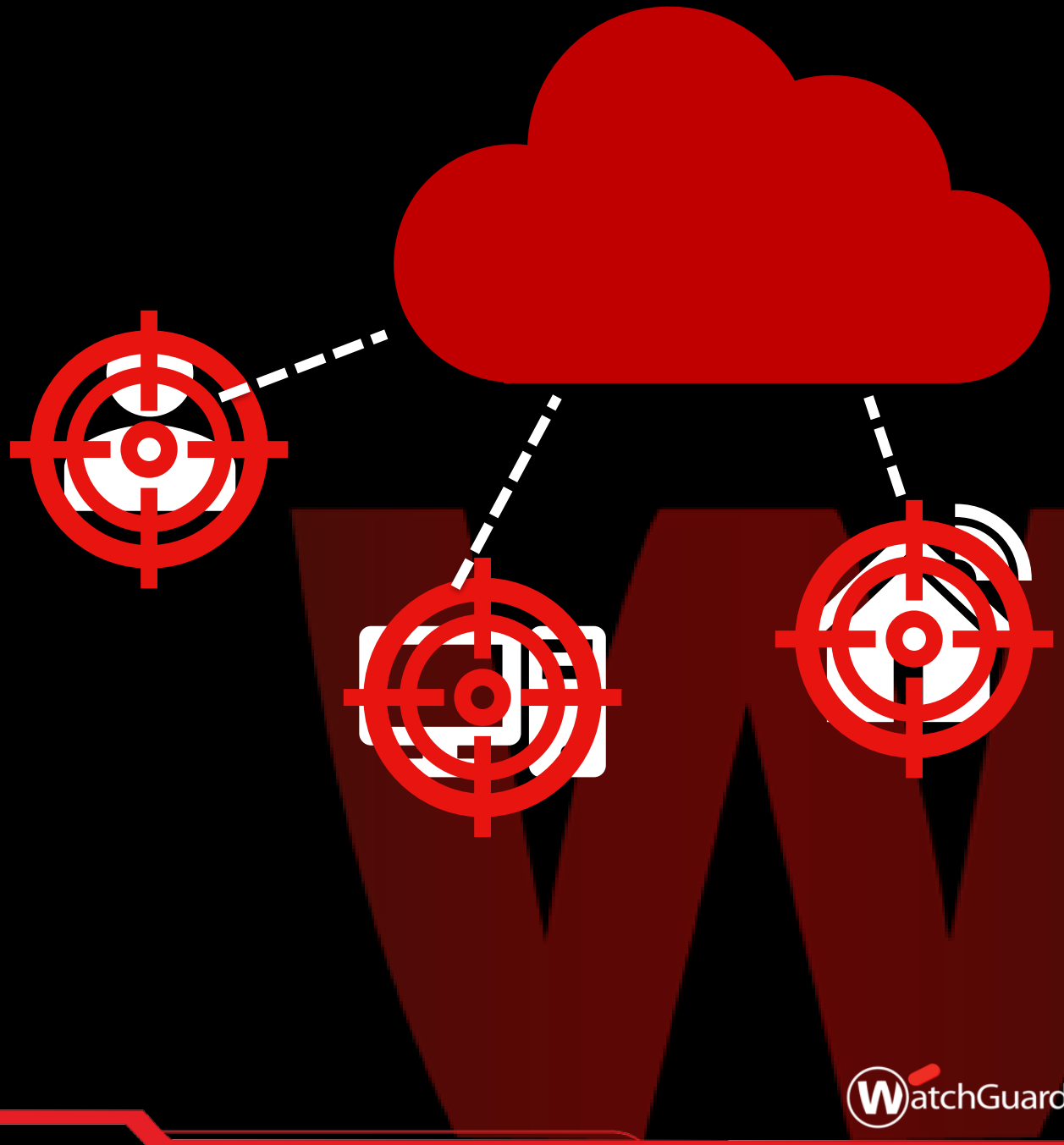
Most Breaches Involve…





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We’re At a Cybersecurity Turning Point

Traditional network boundaries no longer define where data lives or threats come from…

- Employees are accessing sensitive information from mobile devices and public internet connections.
- Applications and workloads are moving to the cloud.
- Powered by AI and automation, cybercriminals can scale attacks, adapt faster, and exploit more before defenders can respond.

The old network security playbook is no longer sufficient.

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SMBs Are a Primary Target

- **61%** of cyberattacks target SMBs specifically.
  - BlackFog
- **82%** of ransomware attacks target companies with fewer than 1,000 employees.
  - Verizon DBIR
- Cost of a breach is now **$1.24m** million for SMBs
  - Verizon DBIR
- **83%** of SMBs are unprepared financially to recover from a cyberattack.
  - Cybersecurity Magazine

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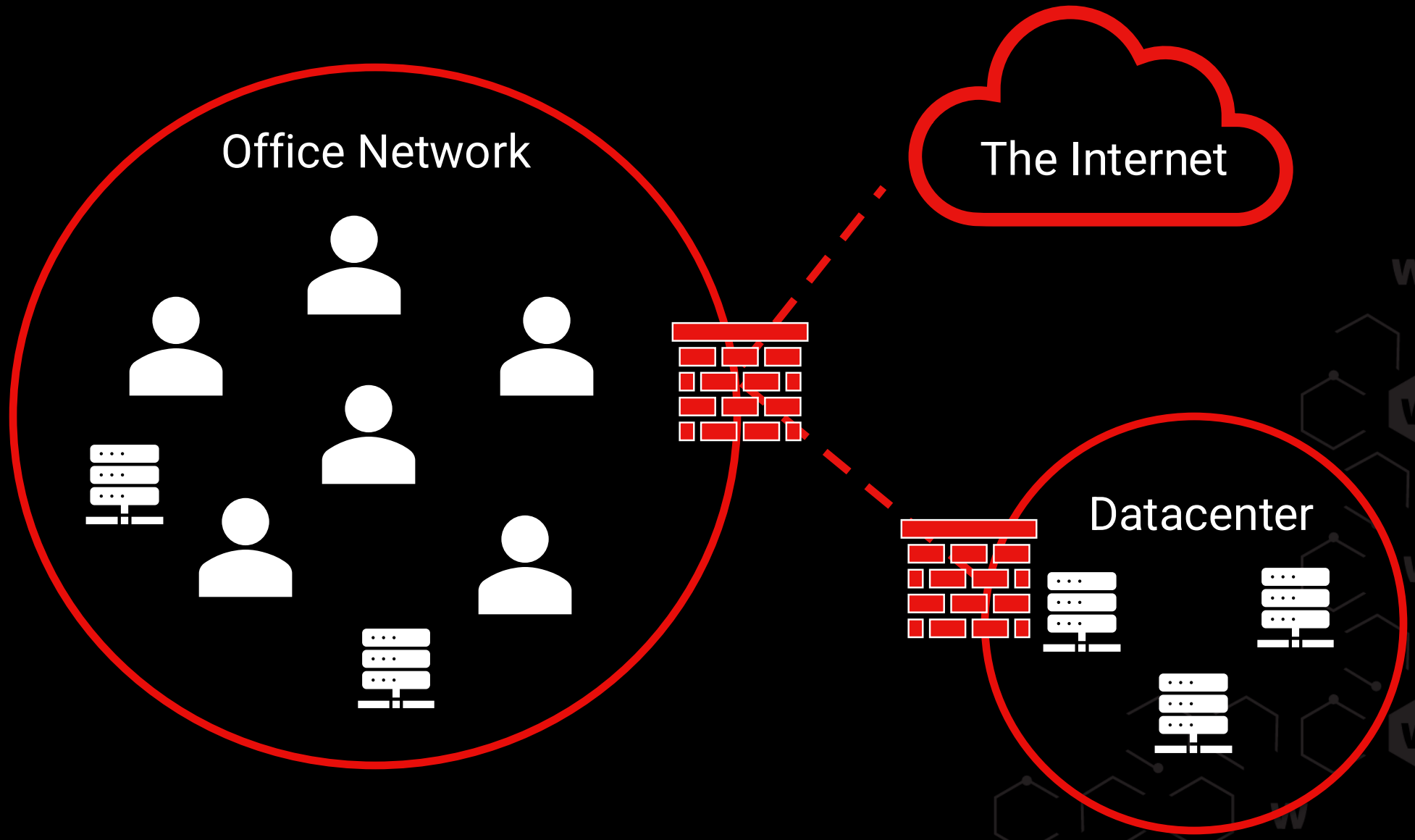
The Fundamentals Didn’t Change - The Environment Did



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The New Era of Connectivity

Users Connecting From

Home

Coffee Shops

Airports

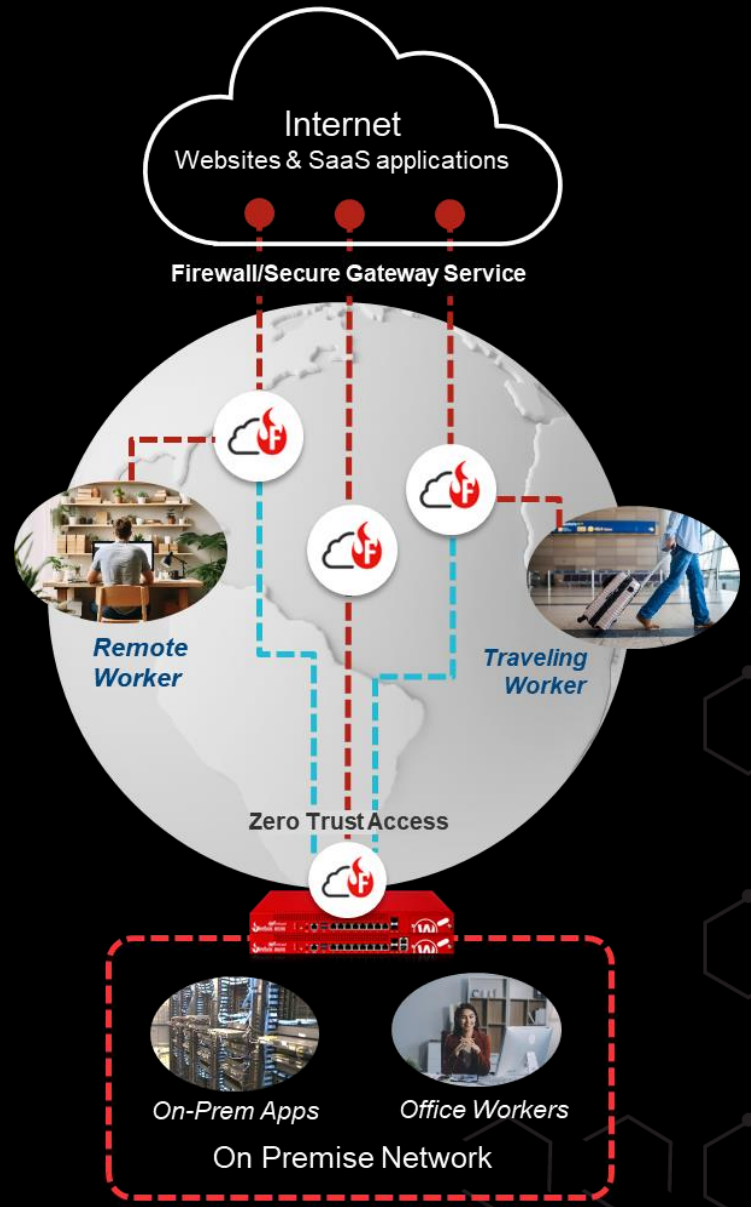
Hotels

To Applications In

Office

Cloud

SaaS



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Where does most of your business risk exist today?

In Your Data

In Your Applications

In Your Users

In How They All Connect

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Where does most of your business risk exist today?

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An employee opens their laptop at home, logs into Microsoft 365, downloads a file, and shares it with a vendor

The User Involved	The Device Involved	The Application Involved	The Data Involved
Is this really the right user?	**Is this device really safe?**	**Is this connection normal?**	**Should this data be accessed or shared?**

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Remote Workers Are Vulnerable

67% of data breaches are linked to remote and hybrid workers

Infostealer Malware is now the #2 technique used after phishing.

65% of stolen credentials are up for sale on the dark web the same day

60% of all cybersecurity incidents involve human error

Social engineering remained the #1 cause of breaches 15 years in a row.

Security Training Just Scratches the Surface; More Protection Is Possible

Strong Authentication (MFA)

99.9% of account compromise cases could have been prevented with MFA.

-Microsoft Research

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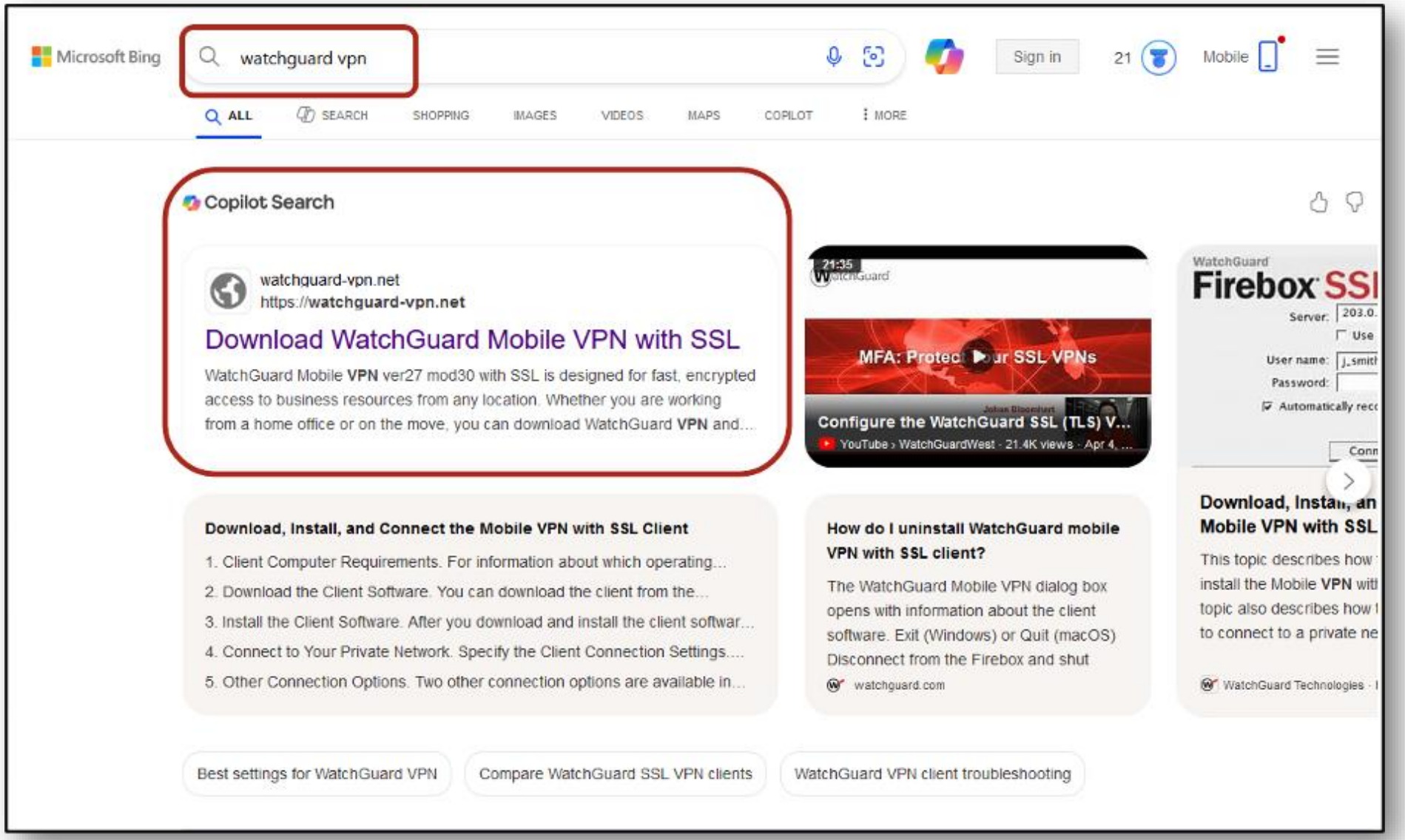
Targeting Remote Employees



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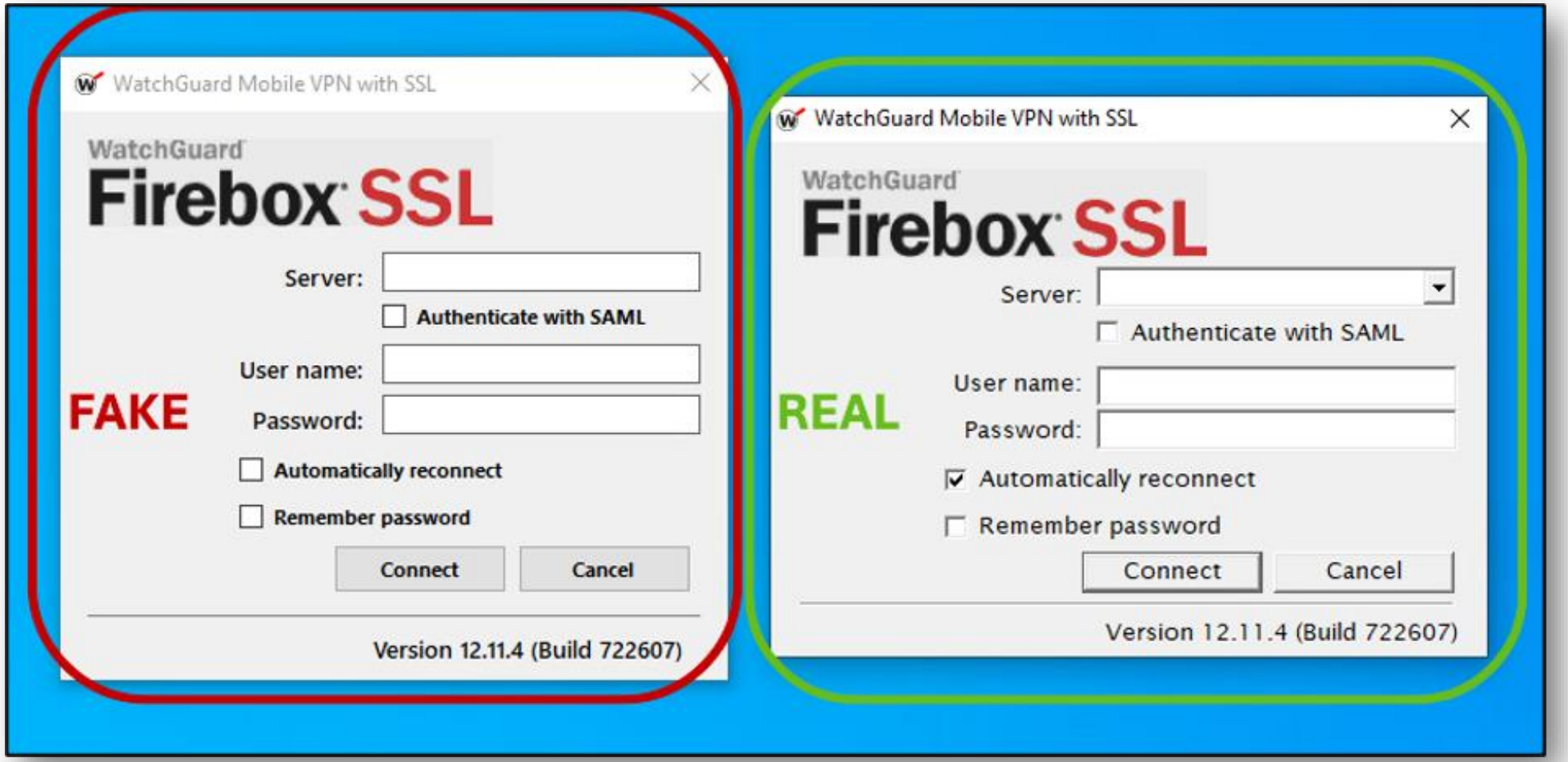
Can You Spot the Difference?



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Accelerating AI Threats and Defenses

2005 – Smarter Antivirus

- Early machine learning makes antivirus smarter. 2010

2010 – Stuxnet Wake-Up Call

- Nation-state attacks prompt behavior-based detection.

2014 – DARPA Cyber Challenge

- AI competes to detect and patch vulnerabilities.

2016 – AI in Endpoint Security

- Predictive EDR launched by major AV vendors

’14 DARPA Cyber Challenge

’05 Basic Machine Learning

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Accelerating AI Threats and Defenses

’17 Rise of
Ransomware Gangs

’20 AI Arms
Race & GPT born

2017 – Automation of SOC

- Using ML Across the Stack

2019 – Whale Hunting

- $10Bn in Ransomware damage

2020 – Deepfake Attacks Rise

- AI powers phishing, impersonation, and social engineering.

2025 – Generative AI in Hacking

- LLMs used by both attackers and defenders at scale.

2026 – Agentic Hacking

- Fully autonomous attack campaigns

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Agentic Attacks Are The Latest Challenge

Adversaries are here to automate exploits

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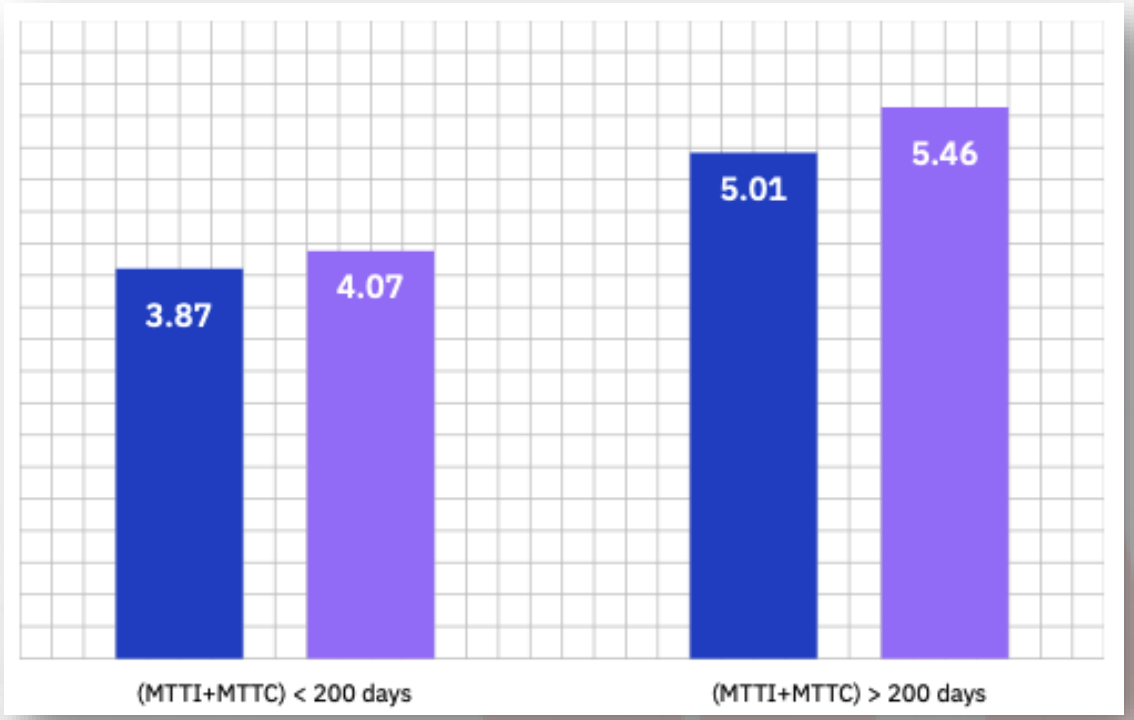
Detection and Response is Too Slow

276

Days it took to identify and contain a data breach across various environments

Cost of a Breach in Millions



*IBM Cost of a data Breach 2025

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Time to Action on Objective Decreasing

Top ransomware operators have an average dwell time of less than 24 hours.

- 2025 Veeam Ransomware Trends Report

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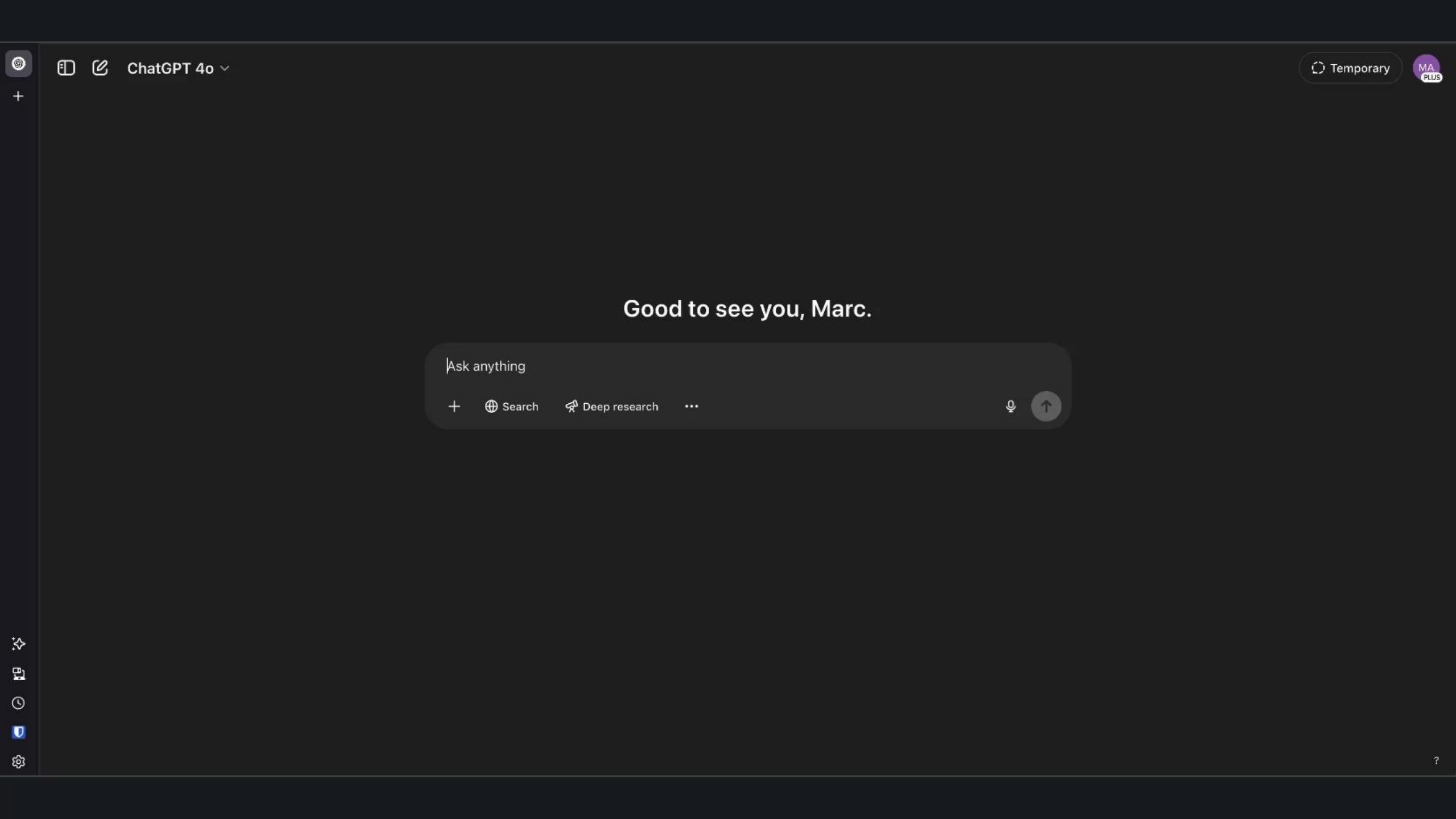
ChatGPT 4o
Temporary
MA
PLUS
Good to see you, Marc.
Ask anything
Search
Deep research
?

It’s not a matter of if, but when.

There is no silver bullet defense.


Advanced threats leverage multiple vectors of attack. No single defense will protect you completely

MFA effectively mitigates the overwhelming majority of authentication attacks

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Advanced behavior-based anti-malware catches evasive threats that signatures miss

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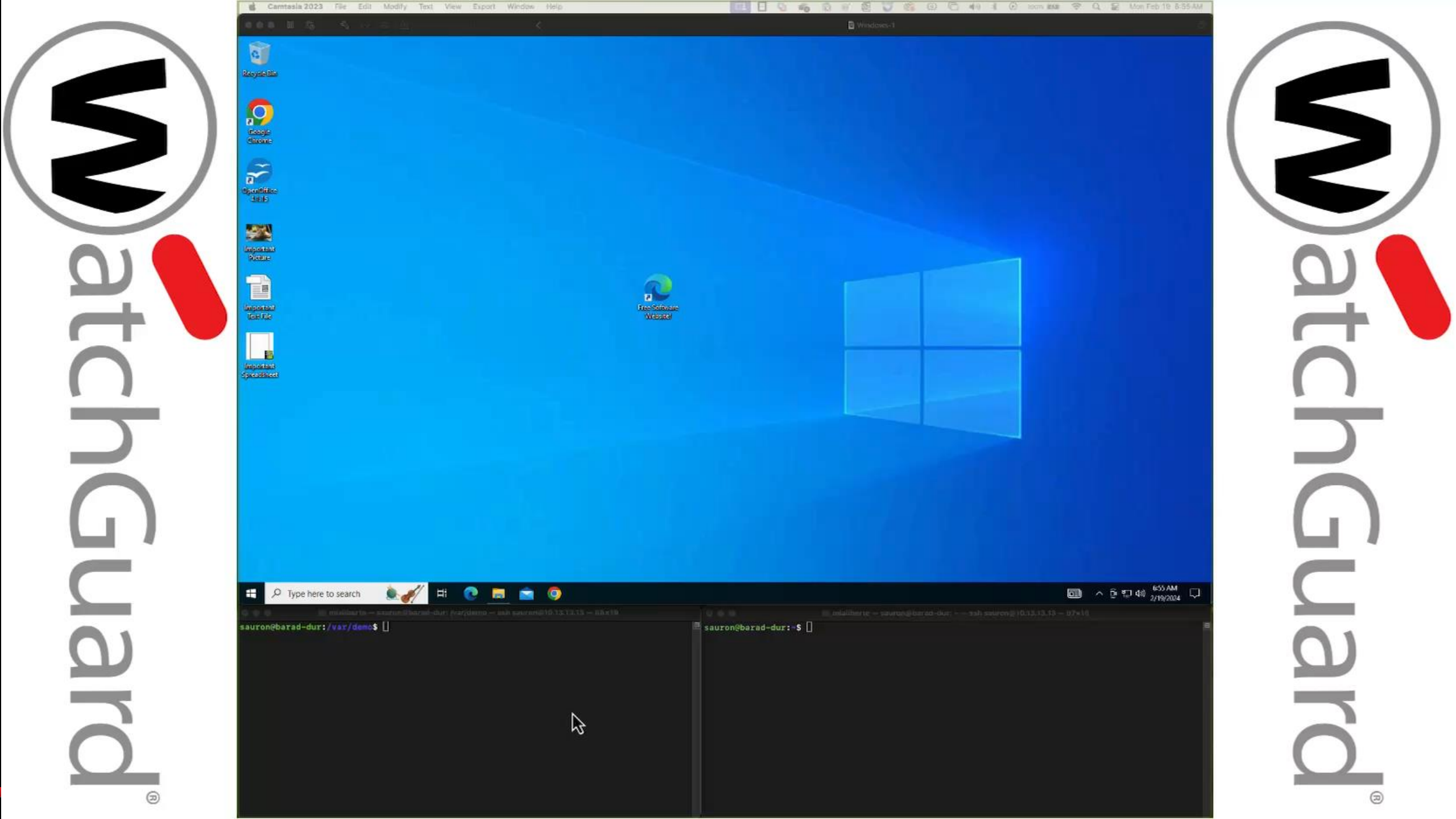
Camtasia 2023
File Edit Modify Text View Export Window Help
Windows-1
Recycle Bin
Google Chrome
OpenOffice 4.1.15
Important Picture
Important Text File
Important Spreadsheet
Free Software Website!
Type here to search
6:55 AM
2/19/2024
sauron@barad-dur:/var/demo$
sauron@barad-dur:~$

EDR quickly detects and contains threats that traditional endpoint protection misses

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ZTNA provides secure remote access to private resources without exposing you to hackers

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Only through a layered defense can you achieve **Real Security**.

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Thank You!

LinkedIn: /in/marc-laliberte/
BlueSky: @itsmarc.me

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