

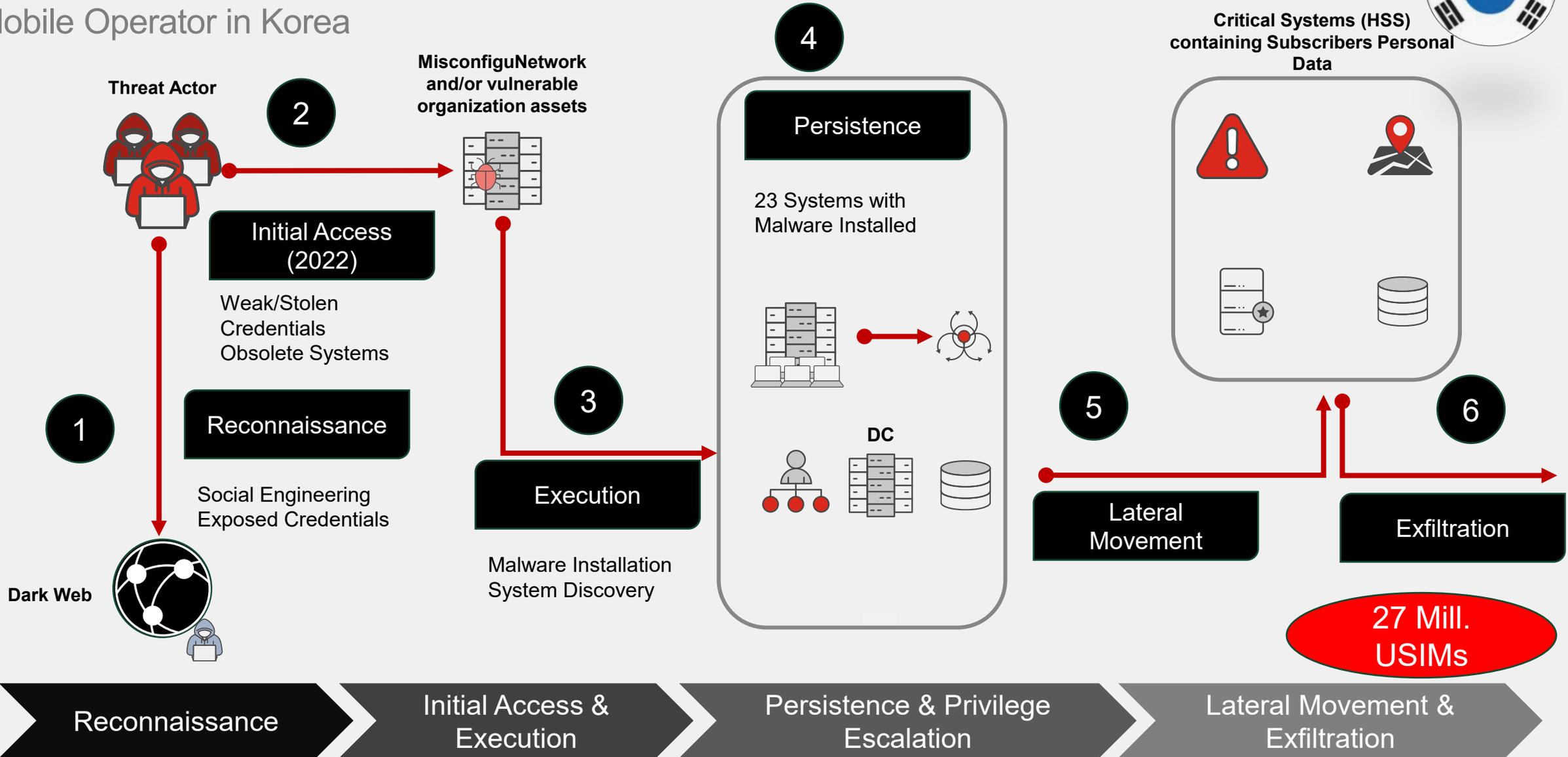


How Secure are Networks?



Let us start with real-life example

Mobile Operator in Korea



The Fortinet logo consists of the word "FORTINET" in a bold, white, sans-serif font. The letter "O" is stylized with a red grid pattern. The background features a dark grey grid of squares, some of which are semi-transparent, and a red horizontal bar at the top left and another at the top right.

Cyber-Security

A large, bold red "X" is superimposed over the word "Security" in the text "Cyber-Security". A thick red horizontal bar is located below the text.

Fernando Montes

Sr Regional Director Service Providers

Latin America

The Fortinet logo consists of the word "FORTINET" in a bold, white, sans-serif font. The letter "O" is stylized with a red grid pattern. The background features a dark grid of squares, with some squares having rounded corners and a red horizontal bar in the top-left corner and another red horizontal bar in the middle-right area.

FORTINET

Cyber-Resilience

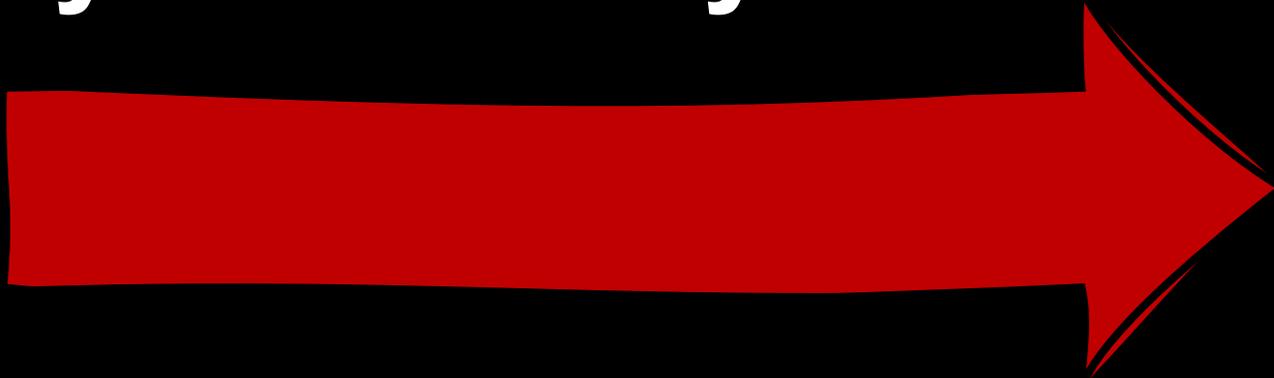
From Protection, to Trusted Secure Networks

Fernando Montes

Sr Regional Director Service Providers

Latin America

What is coming this year and beyond...



<https://www.fortinet.com/lat/blog/industry-trends/predicciones-de-amenazas-para-2025-preparate-para-ciberataques-mas-grandes-y-audaces>



INFORME

Predicciones sobre ciberamenazas para 2025

Una perspectiva anual de FortiGuard Labs

Telco Operators are Prime Targets for Attacks

Critical Infrastructure in any country



**Stop the network,
stop the country**



**Data of millions of
subscribers**



**Large cash flow, target to
raise money within hours**

Telco Attack attempts

Source: <https://www.fortiguard.com/>

Info



Telco/Carrier Threat Landscape



Global Threats Detected

243.02bn



Exploit Techniques Detected

8.23bn



Malware Distribution Detected

190.39M

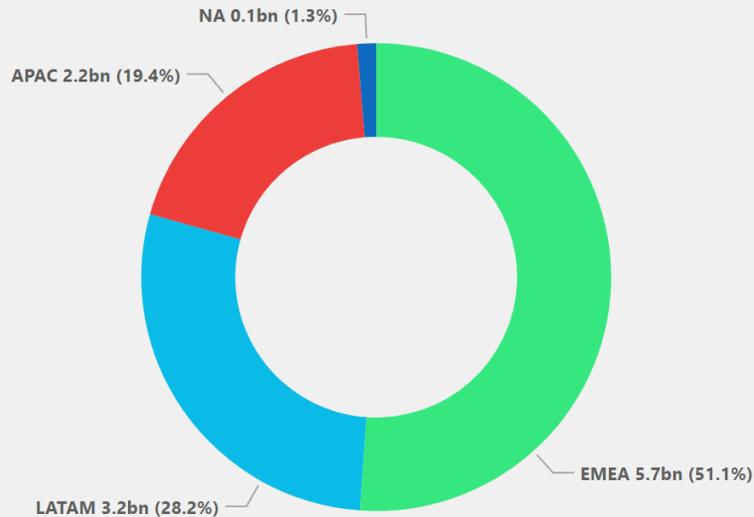


Botnet Activity Detected

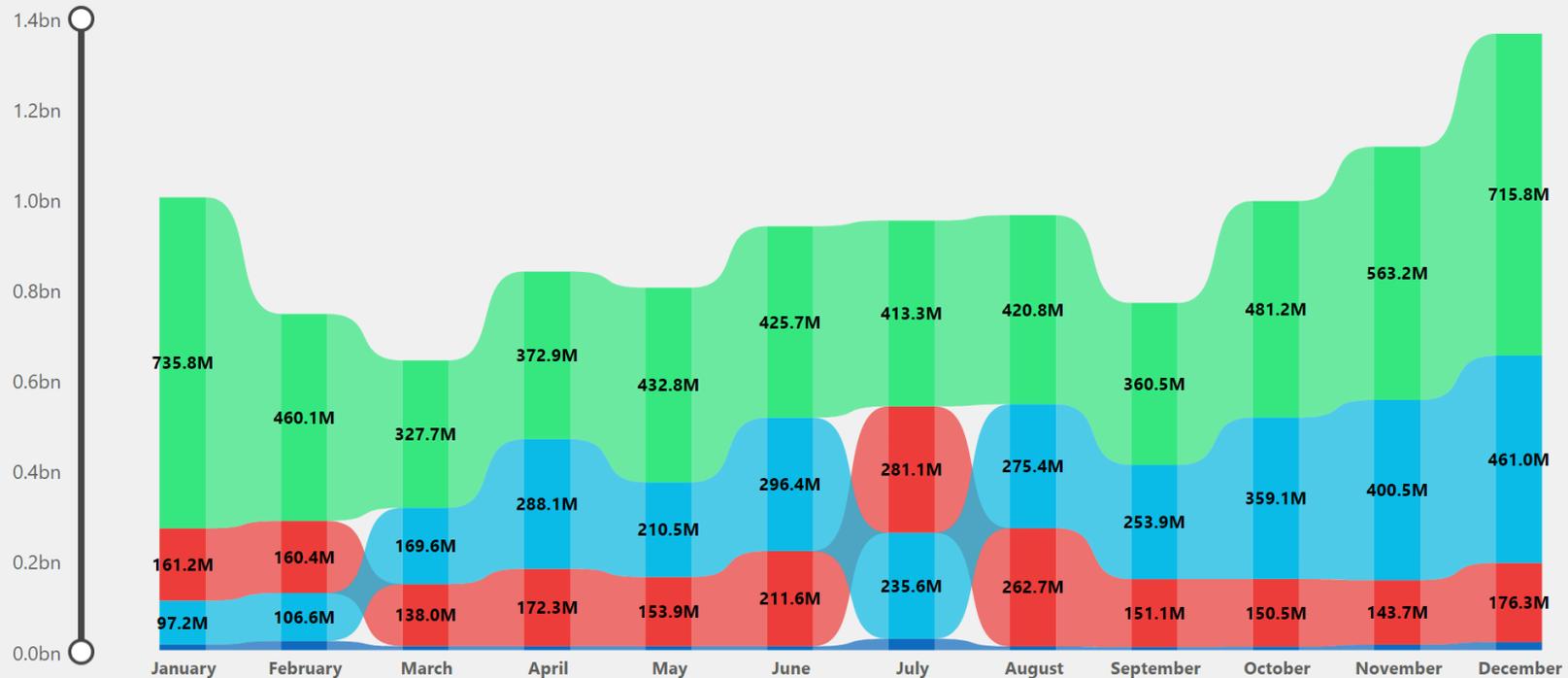
882.26M

Malicious Activity Distribution by Region

● EMEA ● LATAM ● APAC ● NA



Behavioral Trend Analysis by Region



Users



Network



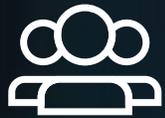
Business



Resilient Platform



Users



Network Business

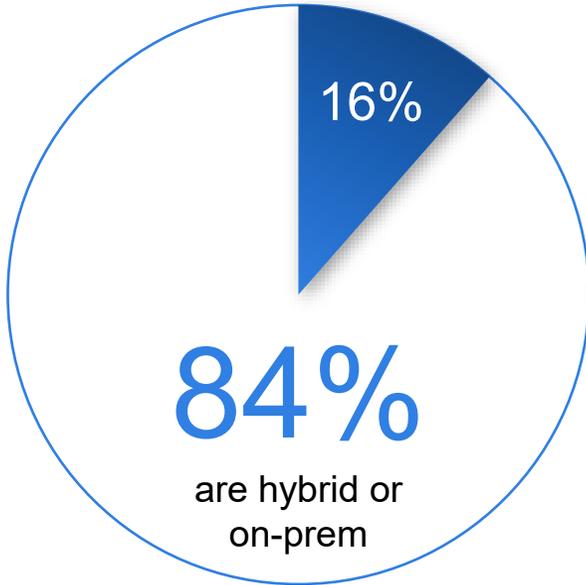
Resilient Platform



Telco Workforce is Hybrid

Managing Hybrid Workforce

Only **16%** of companies are fully remote



Growing Cloud Adoption

Up to **70%** of companies use SaaS apps today



Journey to Zero Trust



Sources saasacademy.com | forbes.com | virtualizationreview.com

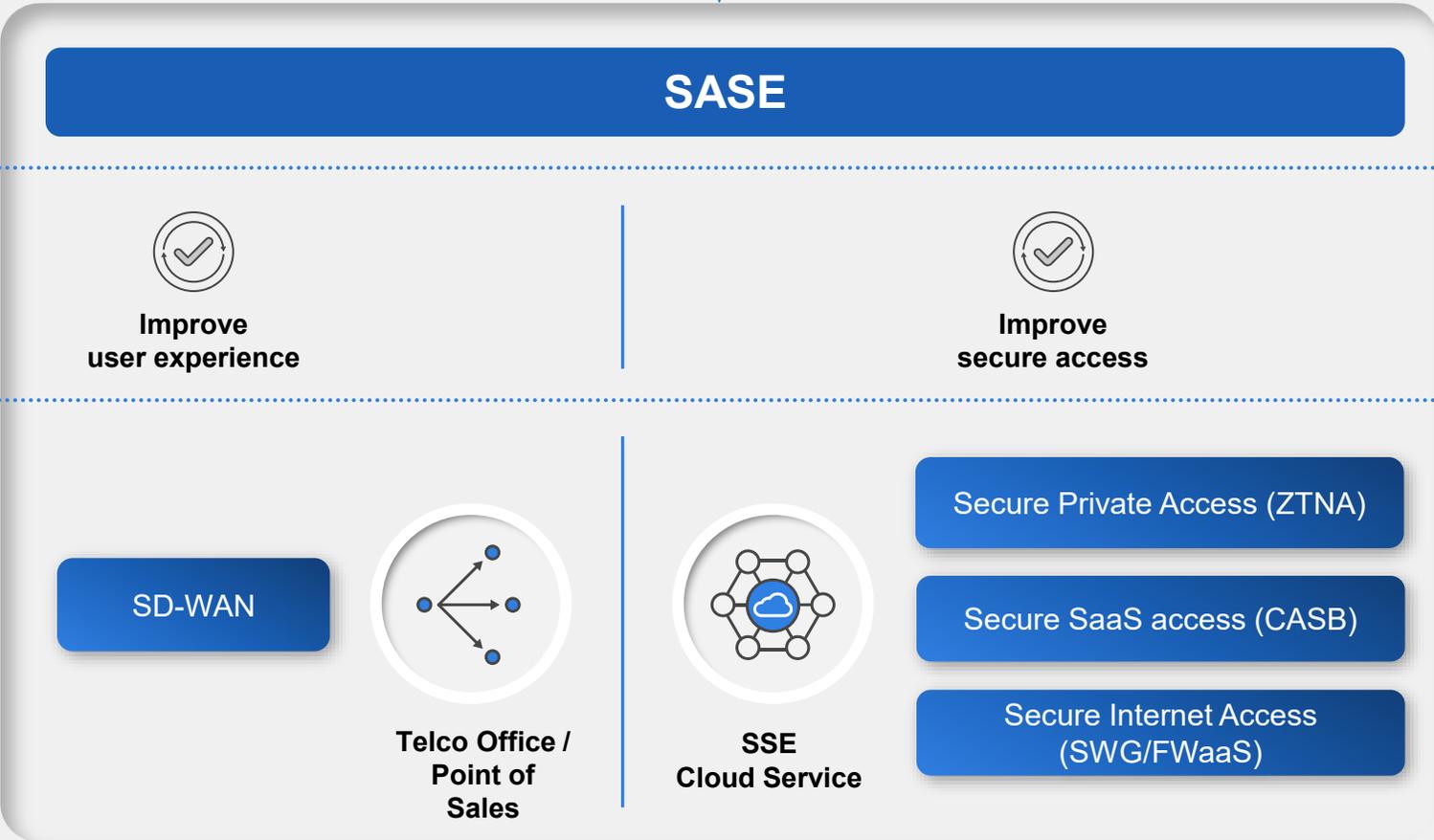


Step-1: Secure Hybrid Access with Zero Trust

Principle



Architecture



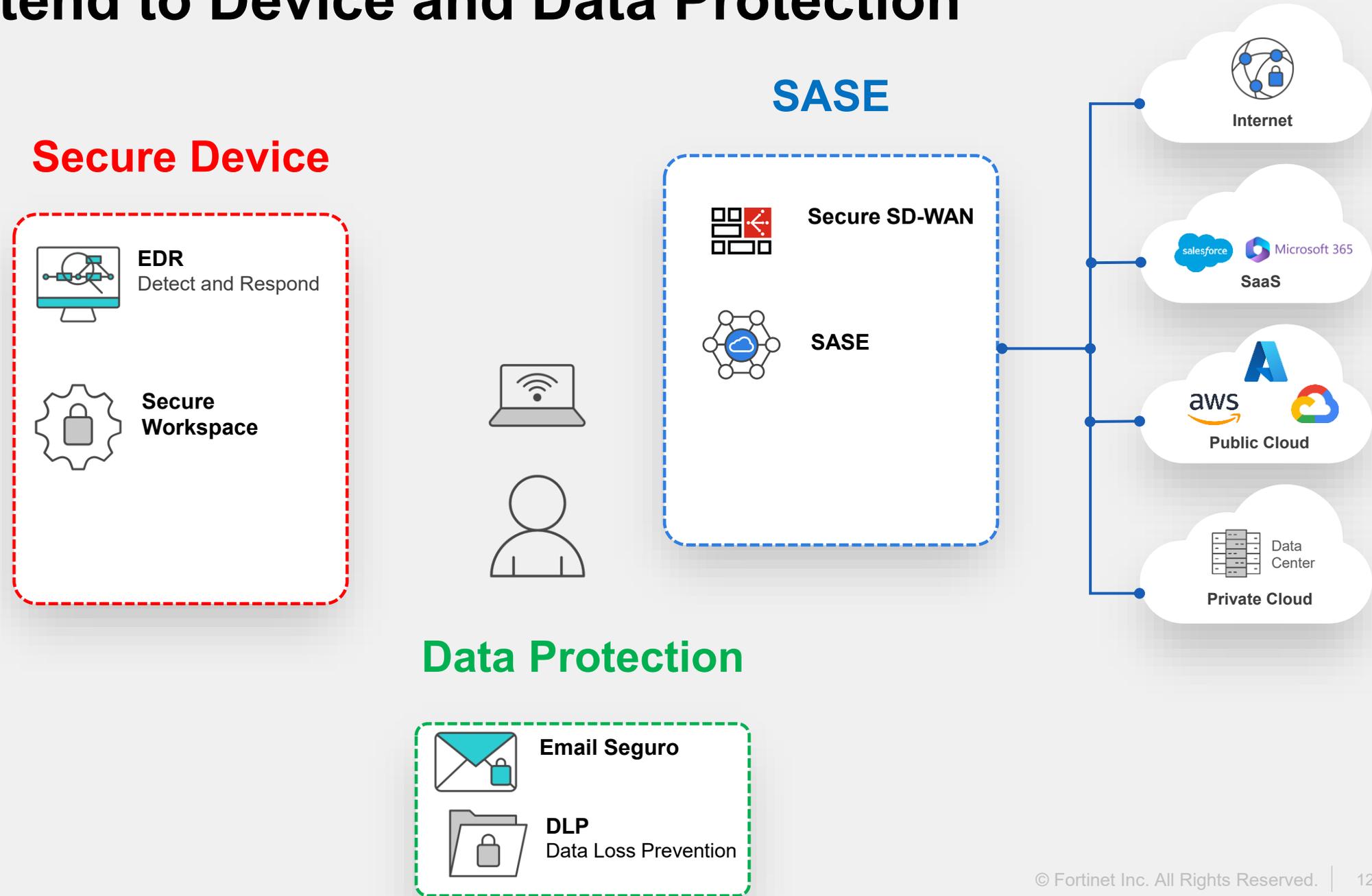
Customer Benefits

Product

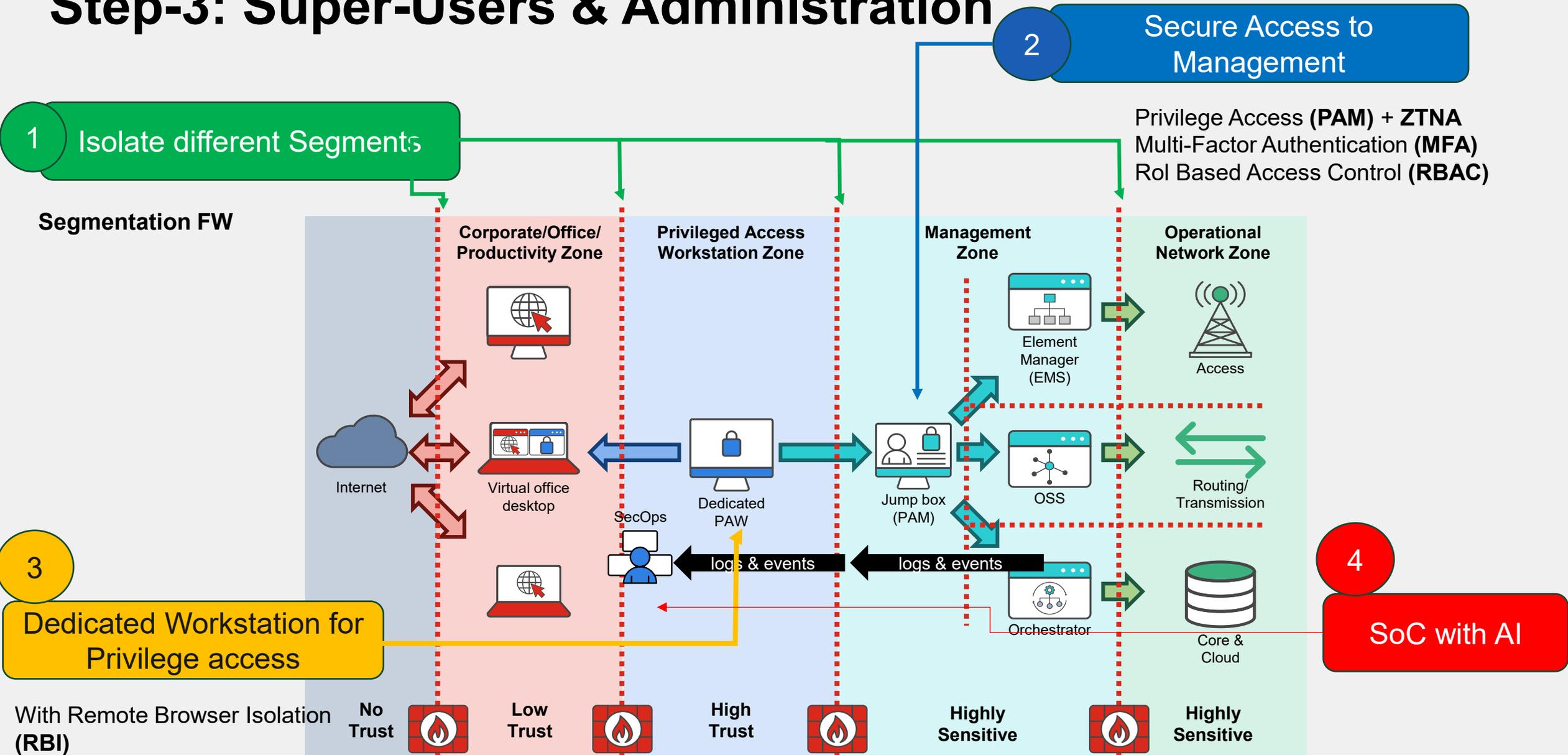


- **SWG = Secure Web Gateway / FWaaS = Firewall-as-a-Service**, which protect users and devices from web-based threats.
- **ZTNA = Zero Trust Network Access**, providing secure, identity-based access with explicit control. Can also be sold standalone.
- **CASB = Cloud Access Security Broker**, which ensures secure access to SaaS applications and safeguards sensitive data.

Step-2: Extend to Device and Data Protection



Step-3: Super-Users & Administration



Network



Users



Business



Resilient Platform



Timeframe: 24 Hours

Top Threats

Most prevalent cyber exploits observed during the selected period.

- Apache.Log4j.Error.Log.Rem 548,
- SolarWinds.SUNBURST.Back 10,
- Realtek.SDK.UDPServer.Corr 7
- Apache.HTTP.Server.cgi-bin 3,
- Linux.Kernel.TCP.SACK.Pani 2,

- IPS Target City
- IPS Source City
- Malware



2D 3D

Real-Time Attacks at 8/8/2025, 13:25:24

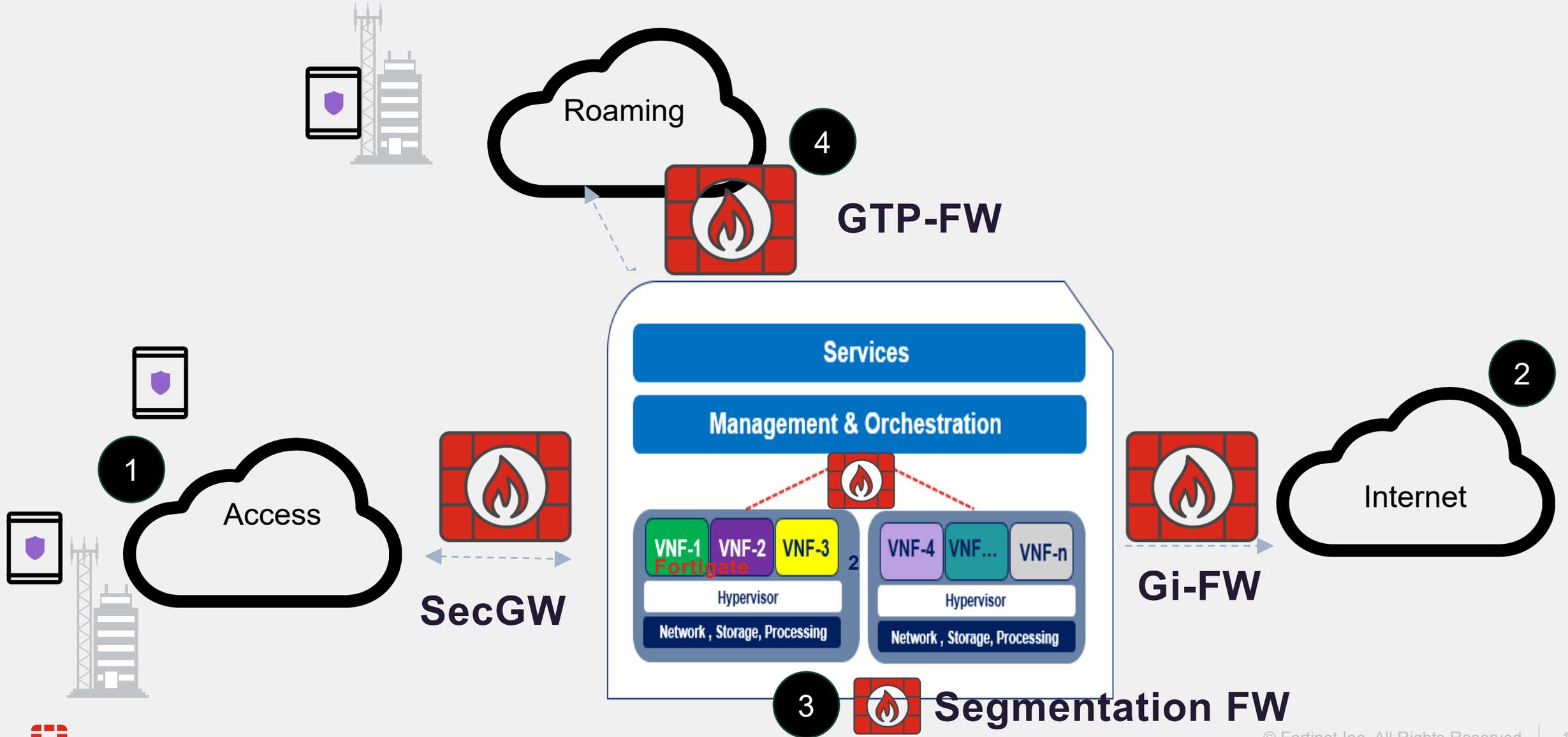
Top Targeted Countries

Highlights the countries with the highest volume of cyber attacks within a specified time frame.

- United States of America 179,192,695
- Germany 29,622,825
- Canada 14,604,154
- Turkey 7,821,187
- Chile 5,784,802

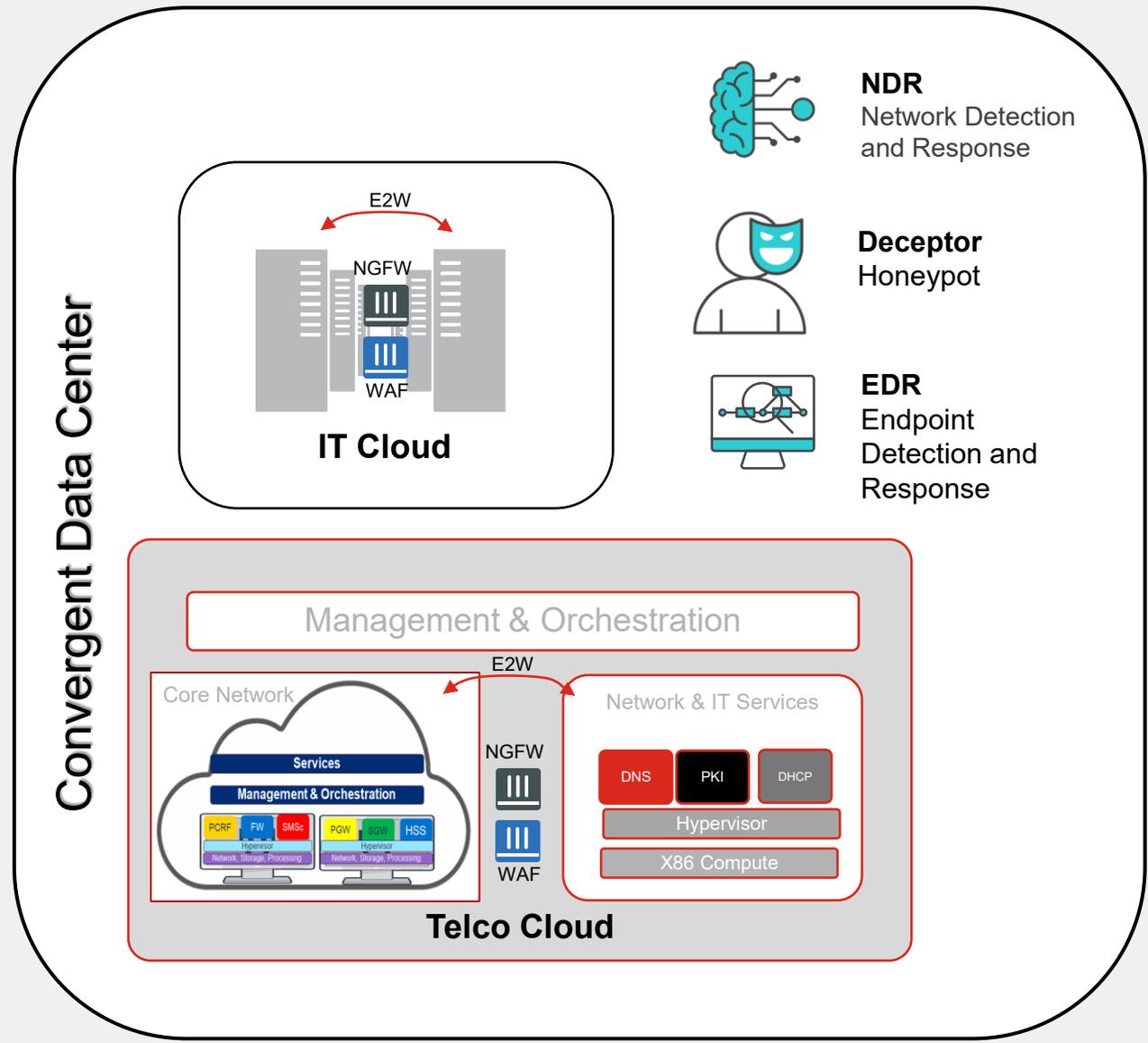
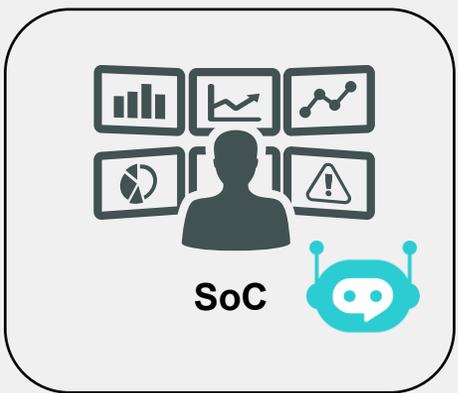


Step-1: Protect Perimeter

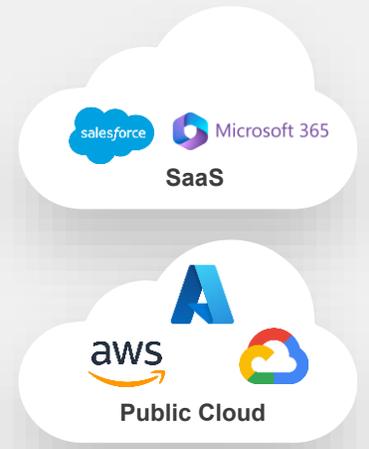


Step-2: Expand to Convergent Data Center

With AI SoC



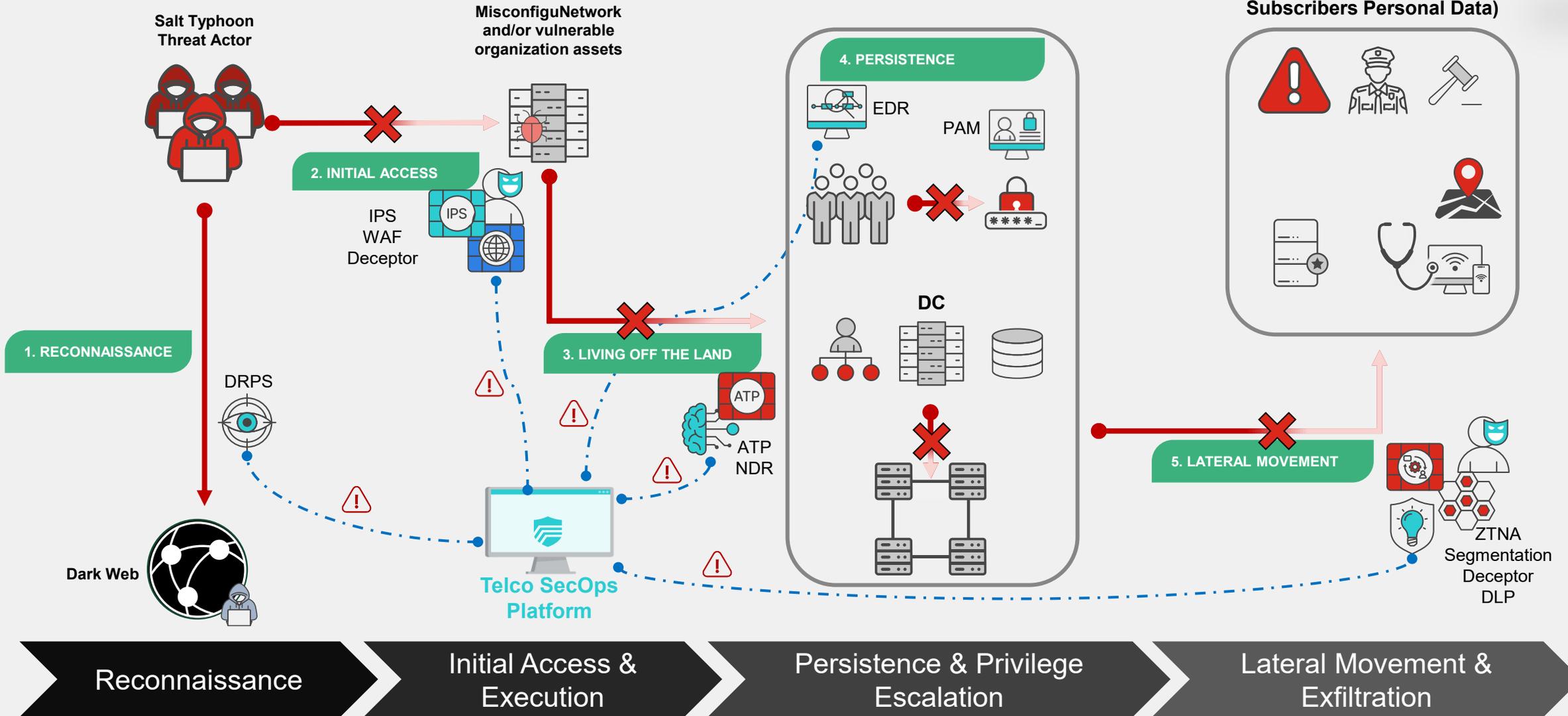
- WAF
- Firewall
- CNAPP





Step-3: Resilient Network Protection

Example of Operator in Korea



Business



Users



Network

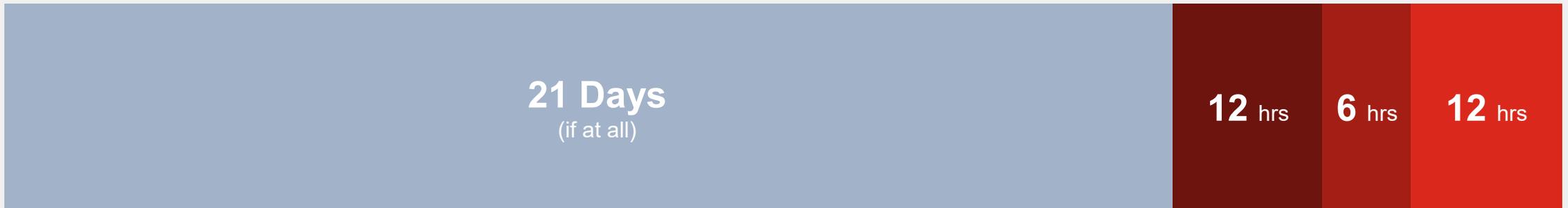


Resilient Platform



When Attackers Get in, They Stay Longer and Cost You More

Average time from detection to remediation



■ Time to Detect ■ Time to Contain ■ Time to Investigate ■ Time to Remediate

52%

of organizations report SecOps is harder than two years ago, citing threats, attack surface, volume/complexity¹

SEC Rule

4 Days

to disclose material of a cybersecurity incident

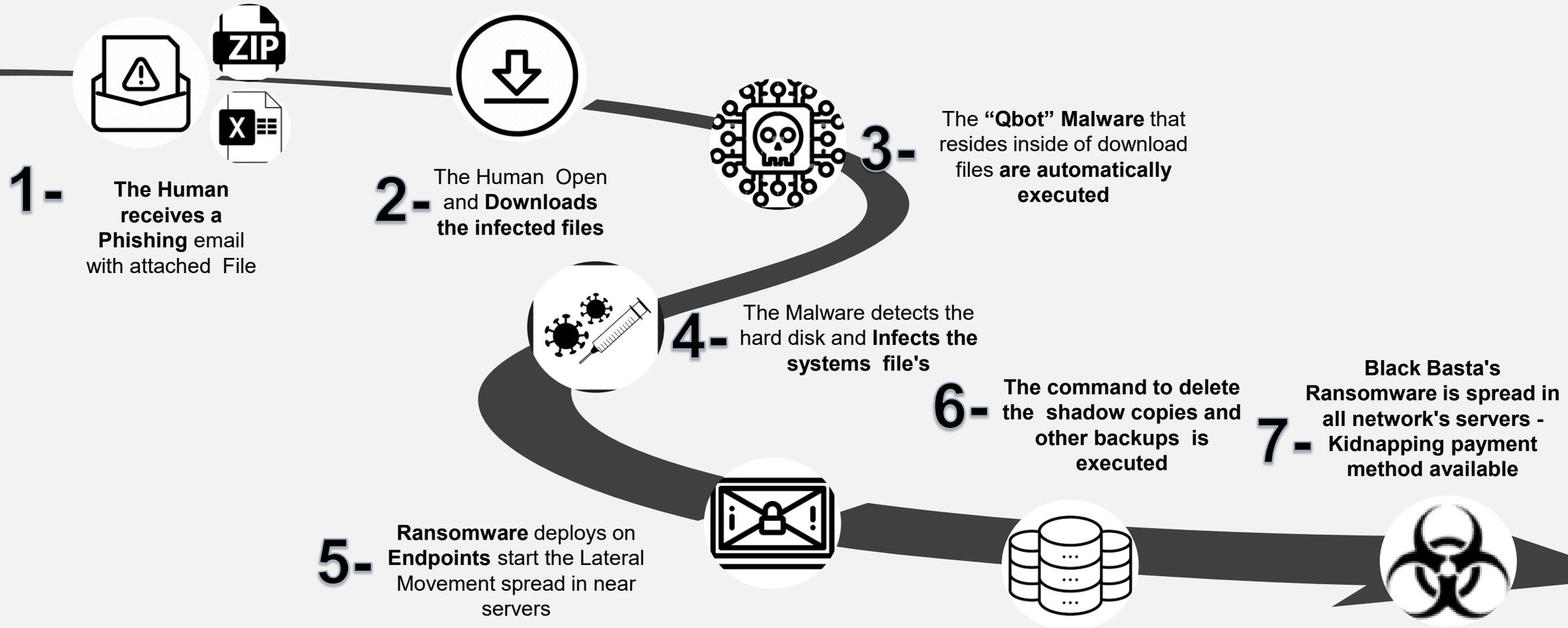
\$9.4M

Avg breach cost



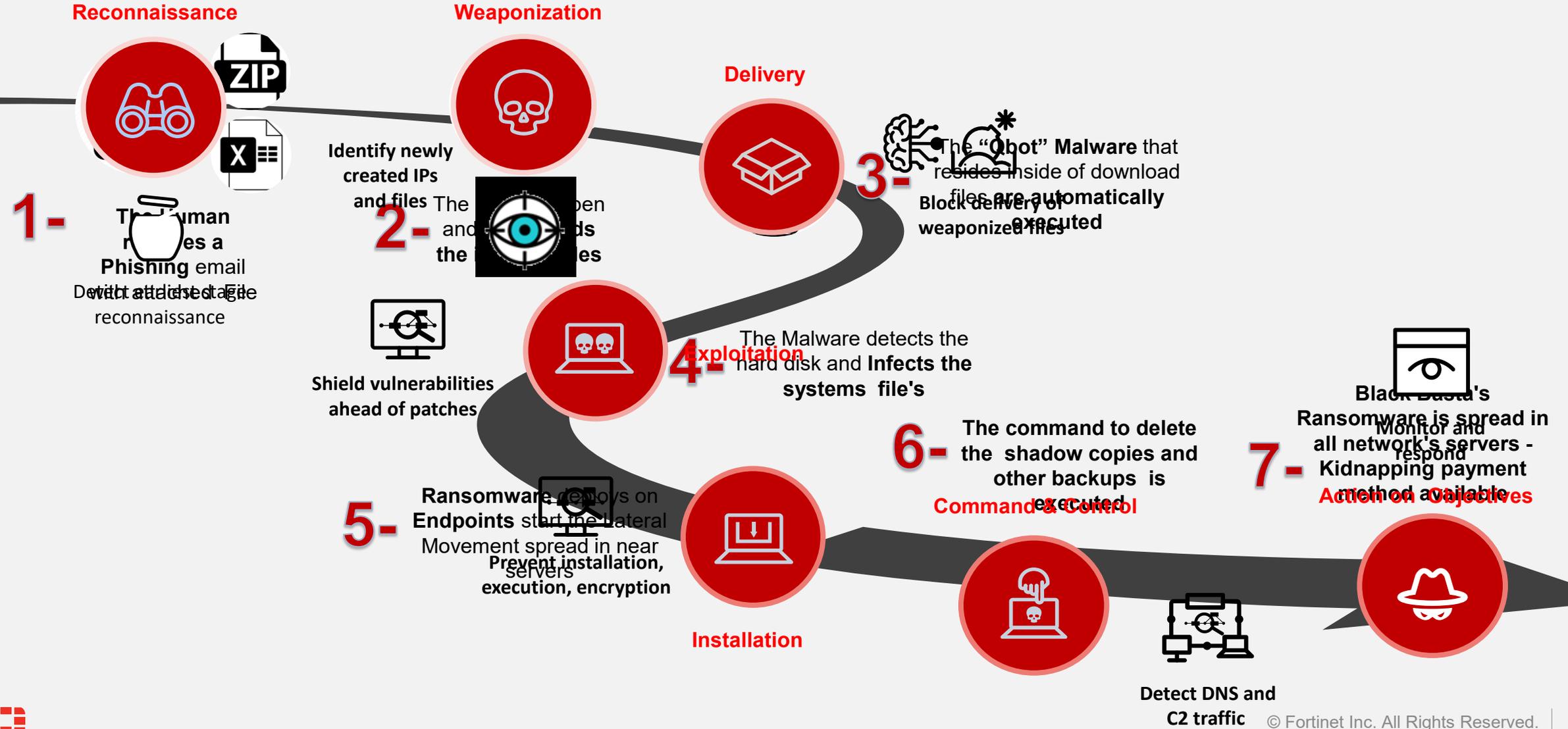
Ransomware, how it works

Black Basta's Real Case

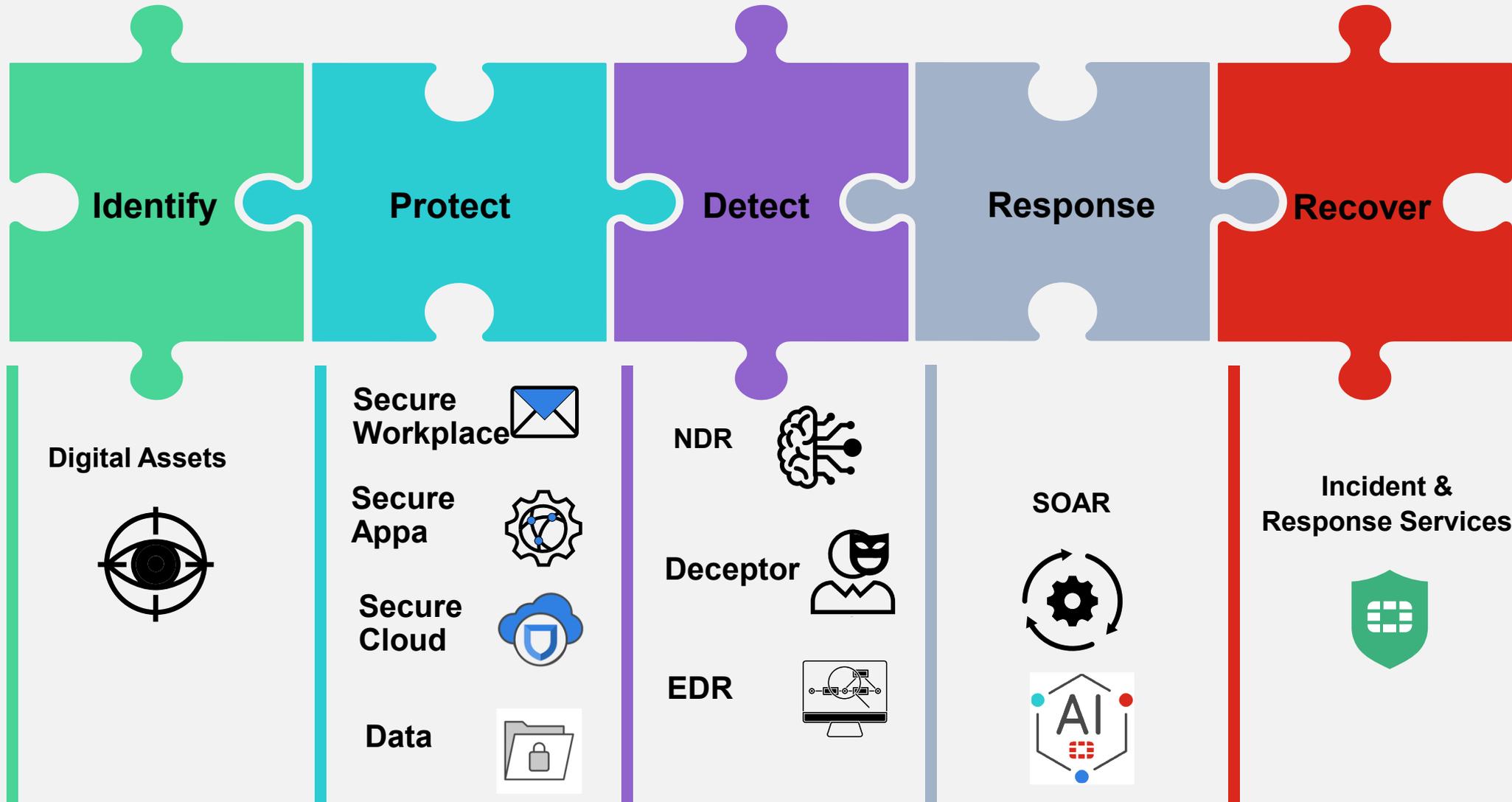


What could have been done??

Applying an adequate Anti-Ransomware security strategy



Applying NIST Model



Achieve Threat Response In Minutes, Not Weeks

Before

Manual incident response and reporting



After

AI-driven Telco Sec Ops



Source: Enterprise Strategy Group, a division of Tech Target, Inc.



Resilient Platform



1. Platform Architecture
2. AI Powered SoC



Users



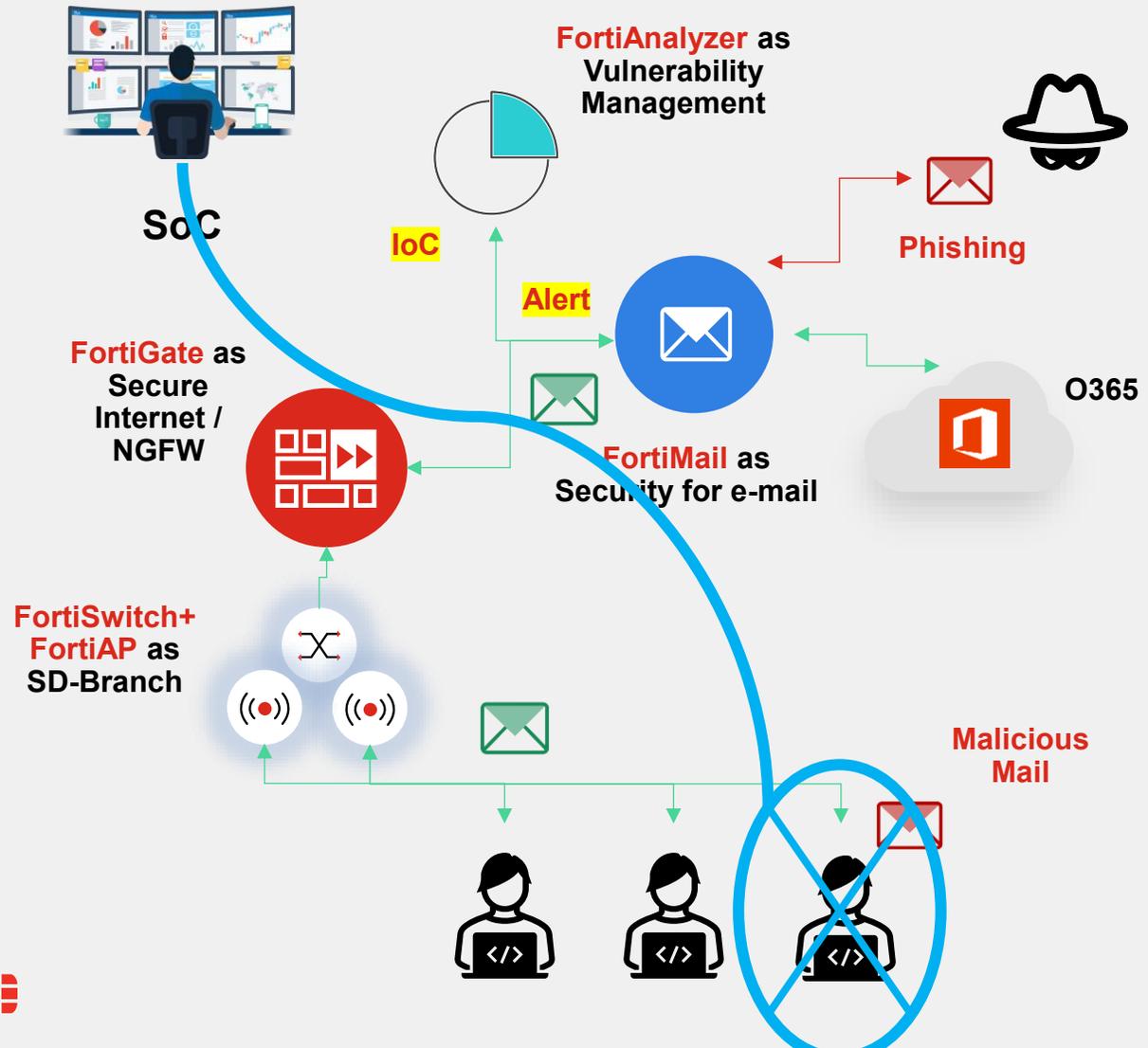
Network



Business



Step-1: Platform Architecture in Motion...

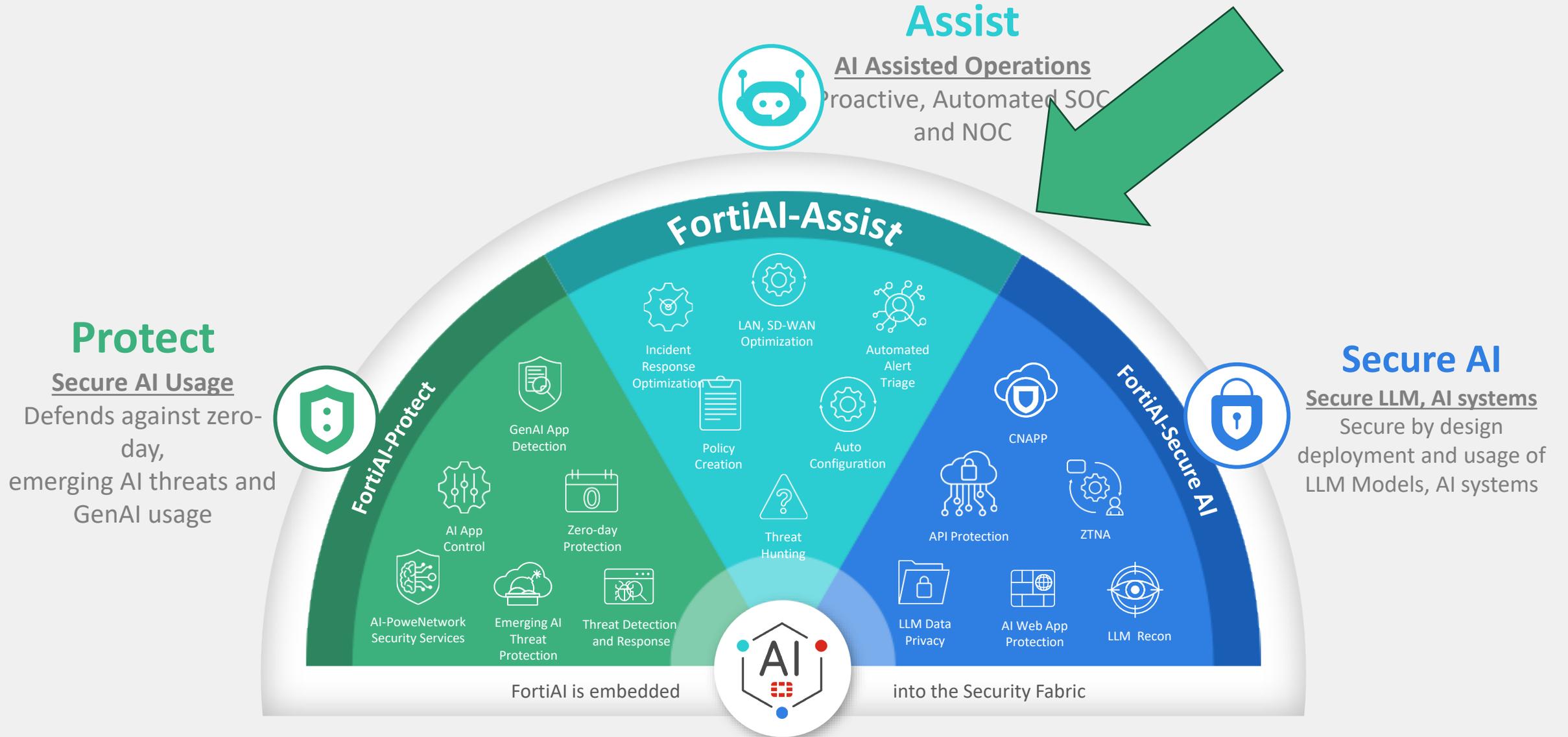


- 1** FortiMail Protects malicious mails **incoming and Outgoing**
- 2** User sends Credentials via **Mail**
- 3** FortiMail detects, Blocks (**Data Loss Prevention**), and generates **alert** to FortiAnalyzer (SoC)
- 4** FortiAnalyzer generates **Indicator of compromise (IoC)**
- 5** **Telco SOC** can **automate** an action to block this user workstation





Step-2: Integration of AI into CyberSecurity Process



did you
KNOW?

**4.7 Mill
CyberSecurity
Professionals Gap**

Source: Fortinet SyberSecurity Skills Gap report

**Analyst
Receives Alert
information**

Alert-45 | A suspicious packet was sent

Last Modified: 12/06/2023 02:56 PM by CS Admin

Audit Logs

Ack Date	Ack SLA	Response Date	Response S...
Select Date	Awaiting Action	Select Date	Awaiting Action

Time Remaining To Ack
0 days 00 hr 00 min 00 sec

Time Remaining To Response
0 days 00 hr 00 min 00 sec

Description

A suspicious packet was sent. SMB Server Traffic contains NTLM-Authenticated SMBv1 Session. Activity was detected related to NTLM-Authenticated SMBv1 Session, that indicates attempts to abuse the exploits in SMBv1.

Details

Assigned To	CS Admin	Source	FortSIEM	Assigned Date	12/06/2023 02:36 PM
Status	Open	Source ID	4	Resolved Date	Select Date
Escalated	No				

Advisor For Analysts

Advisor For Threat Intel Teams

Advisor For Playbook Designing

Source	Target	Process/File	Others
Source IP	10.121.221.12	Destination IP	10.132.255.118

- Actions
- Execute
- Escalate
- Resolve
- Send Email
- Edit Record
- Export Record
- Delete Record
- Sync Record

Workspace

Comments | Recommendations

Fields | Records | Playbooks

Suggestions (2)

Severity	Critical	✓
Assigned To	CS Admin	✓

Information Sent to Threat Intel Group

Critical Alert-44 | Transfer Of Malware Detected - Dragonfly 2.0

Last Modified: 12/06/2023 02:51 PM by Playbook

Audit Logs

Ack Date	12/06/2023 02:51 PM	Ack SLA	Missed
Response Date	12/06/2023 03:11 PM	Response SLA	Awaiting

Description

Suspicious transfer of malware named 'TemplateAttack_DragonFly_2_0' (MD5: 722154a36f32ba10e9f020a8ad758a7a) \ADMIN\CVcontrolEngineer.docx' after a 'read' operation

Details

Assigned To	CS Admin	Source	FortiSIEM
Status	Investigating	Source ID	FSM-324-F654
Escalated	No		

Advisor For Analysts

Advisor For Threat Intel Team

Advisor For Playbook Designing

Source	Target	Process/File
Source IP: 10.121.221.12	Destination IP: 10.132.255.118	

- Actions
- Execute
- Escalate
- Resolve
- Send Email

Advisor PREVIEW

FortiSOAR AI Assistant

- Operation: Read (this file was accessed or possibly copied)
- Issue: The alert indicates that a file, which matches the signature of a known malware (TemplateAttack_DragonFly_2_0), has been accessed on a network. The presence of this malware could imply a cybersecurity breach.

Immediate steps should be to:

1. Isolate the infected system(s) to prevent further network contamination.
2. Investigate and validate the alert to confirm if a breach has occurred.
3. Follow your organization's incident response protocol.
4. Engage your cybersecurity team to analyze the malware and contain the threat.
5. Change passwords and credentials if necessary.
6. Inform relevant stakeholders about the breach and its potential impact.

How can this be related to this alert also -

A suspicious packet was sent. SMB Server Traffic contains NTLM-Authenticated SMBv1 Session. Activity was detected related to NTLM-Authenticated SMBv1 Session, that indicates attempts to abuse the exploits in SMBv1.

The second alert relates to the first one by suggesting a possible method through which the malware could have been transferred. Here's how they are connected:

- SMBv1 Vulnerability: The second alert indicates there was traffic containing an NTLM-authenticated Session using SMBv1, which is known to be vulnerable to various exploits.
- Exploit Path: An attacker could have exploited the SMBv1 vulnerability to gain unauthorized access to network resources and potentially transfer the malware.
- Correlation: The malware transfer detected in the first alert might have occurred as a result of the exploitation noted in the second alert.

To respond to this, you should:

1. Immediately disable SMBv1 protocol on all systems if possible.
2. Conduct a thorough investigation to find the source of the SMBv1 traffic and the related exploitation attempts.
3. Apply necessary patches to fix vulnerabilities in SMBv1 on any legacy systems that absolutely require it.
4. Cross-reference logs to see if the detected SMBv1 activity corresponds with the timing of the malware transfer.
5. Continue with the incident response steps as outlined for the first alert.

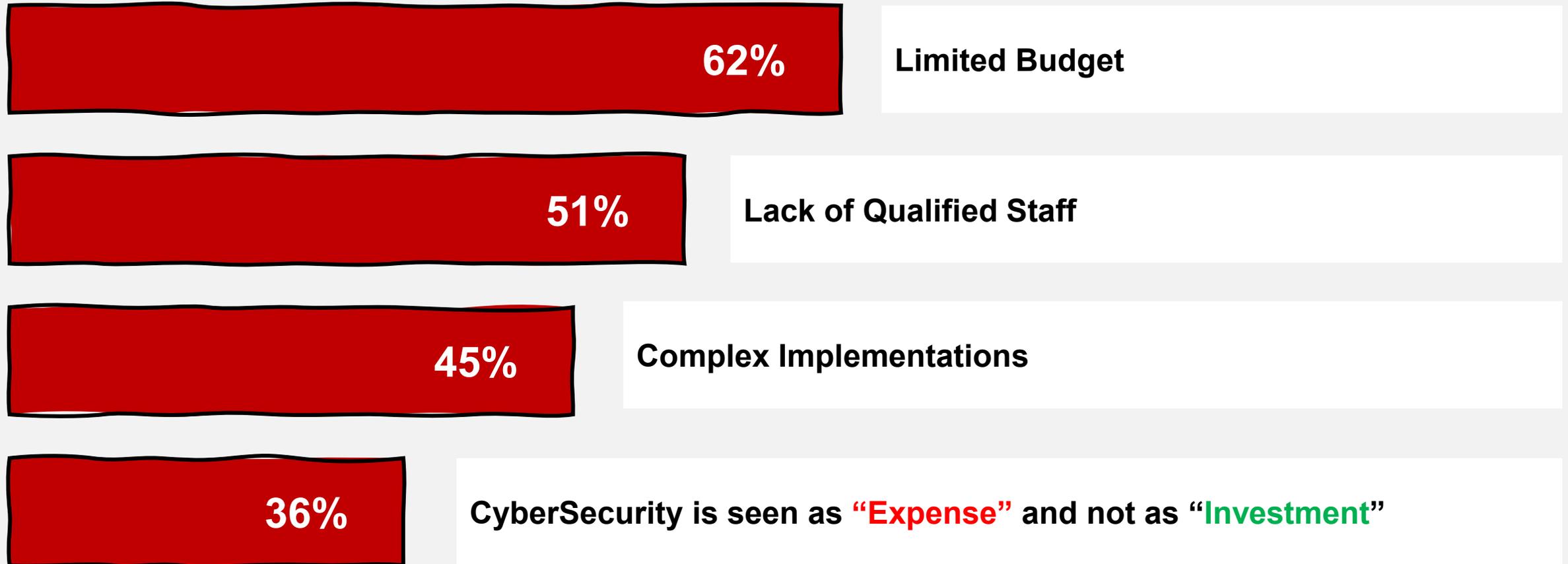
Ask a question

Clear Conversation

Type a message

Barriers in Cyber-Security Adoption

What Companies say...



Breaking Barriers with Cyber-Resilient Platform

62%

Limited Budget

Cost Optimization with Platform Architecture



51%

Lack of Qualified Staff

SoC powered with AI



45%

Complex Implementations

Native integrations within same Platform



36%

CyberSecurity is seen as **“Expense”** and not as **“Investment”**

Business Protection with anti-Ransomware



Fortinet Contributes to the Sustainability of Society



SUSTAINABLE DEVELOPMENT GOALS

<https://www.un.org/sustainabledevelopment/news/communications-material/>



Our Environmental Commitment



Net Zero Goal

Aspiring to reach net zero emissions by 2050 across our entire value chain.



Science-Based Targets

Progressing toward SBTi-validated near-term climate targets



Product Environmental Impacts

Reducing footprint through product energy efficiency, sustainable packaging, and circular practices.



2024
SUSTAINABILITY
REPORT

[READ THE REPORT](#)



Fortinet's Path to Net Zero



Sustainable Operations

Reducing natural gas usage and transitioning to low-emissions cooling systems in our buildings.



Renewable Energy

Achieving 100% renewable electricity use in all owned sites by 2030.



Sustainable Supply Chain

Ensuring suppliers have climate programs that align with ours.



Sustainable Products

Reducing product energy consumption and embedding circular practices in our products and packaging.



[Ambitious corporate climate action - Science Based Targets Initiative](#)

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SBTi-Validated Near-Term Climate Targets

58.8%

Emissions Reduction Target

Absolute reduction of Scope 1 and 2 emissions by 2030 from a 2021 base year.

60.5%

Supplier Engagement

Of suppliers (by spend) will have science-based GHG emissions reduction targets by 2029.

69.2%

Customer Engagement

Of customers (by revenue) will have science-based GHG emissions reduction targets by 2029.

Fortinet Contributes to the Sustainability of Society



Addressing Cybersecurity Risk to Society

Global Partnerships and Collaboration



Respecting the Environment

Pledge **NET ZERO**

by 2030
Fortinet owned facilities

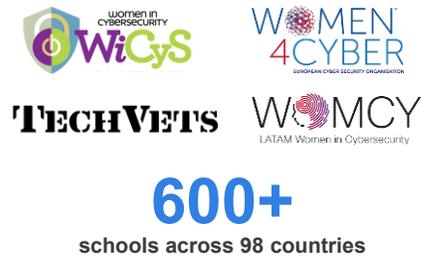
88%
less power consumption over industry-standard CPUs

by 2050
across value chain



Closing the Cybersecurity Skills Gap

Pledge **1 Million** people trained in cybersecurity by **2026**



Promoting Responsible Business

100% of our key contract manufacturers trained on our compliance and ethics standards

FORTINET Trusted Resource Center



The Fortinet logo is displayed in white, uppercase letters. The letter 'O' is stylized with a red grid pattern. The background features a large, faint, dark gray grid of squares, with some squares having rounded corners. A solid red horizontal bar is positioned at the top left, and another solid red horizontal bar is positioned at the bottom of the page.

FORTINET

i Thank you!