



Powerful Security.
Operationally Simple.

Gartner
Cool Vendor
2016



Microsoft Partner
Virus Information Alliance

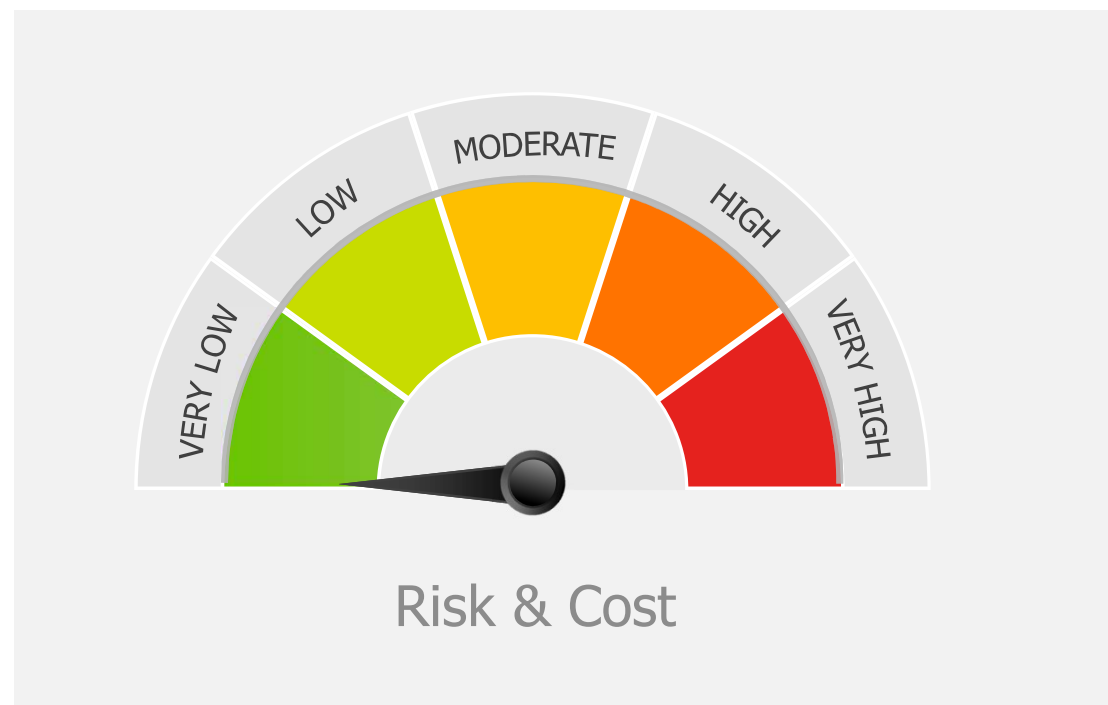
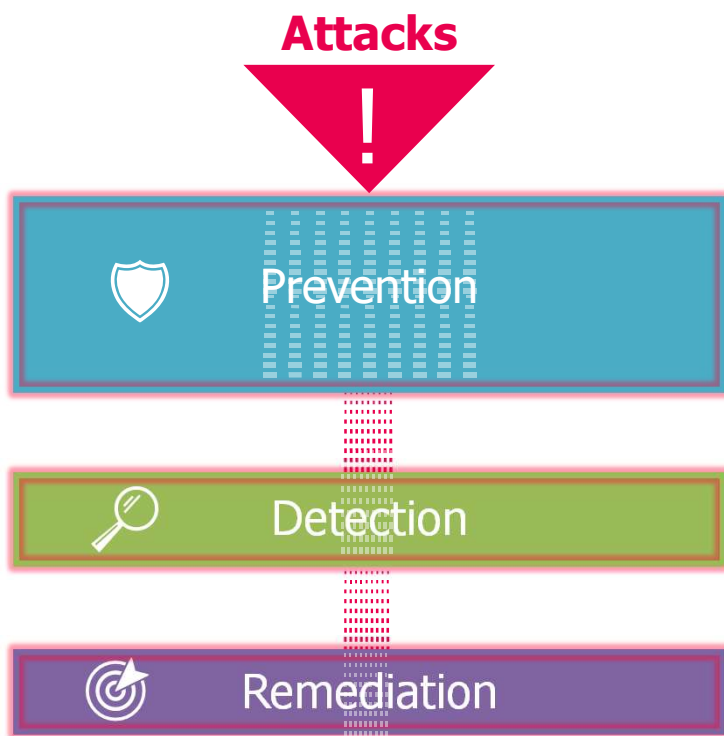


Prevention

The Most Strategic Element in the Security Architecture

IDEAL

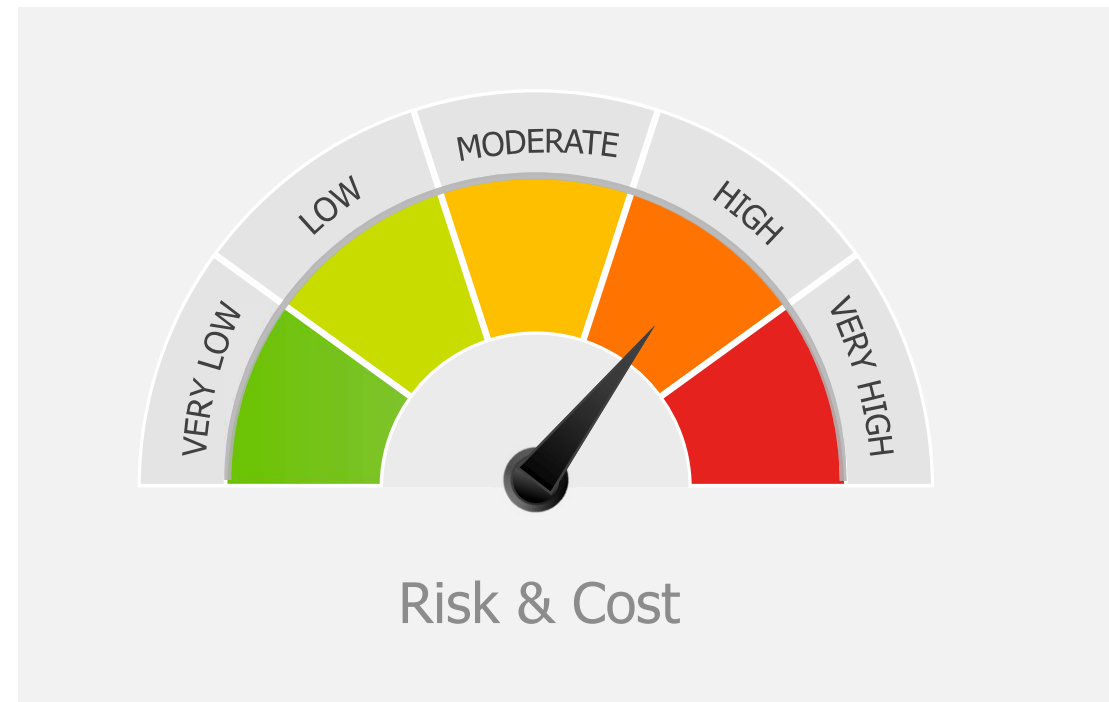
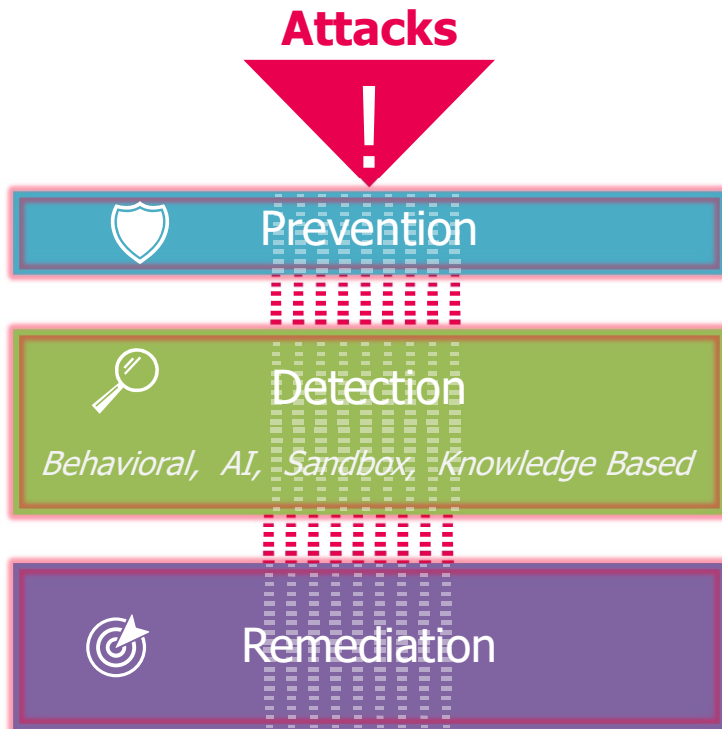
architecture



Prevention

The Most Strategic Element in the Security Architecture

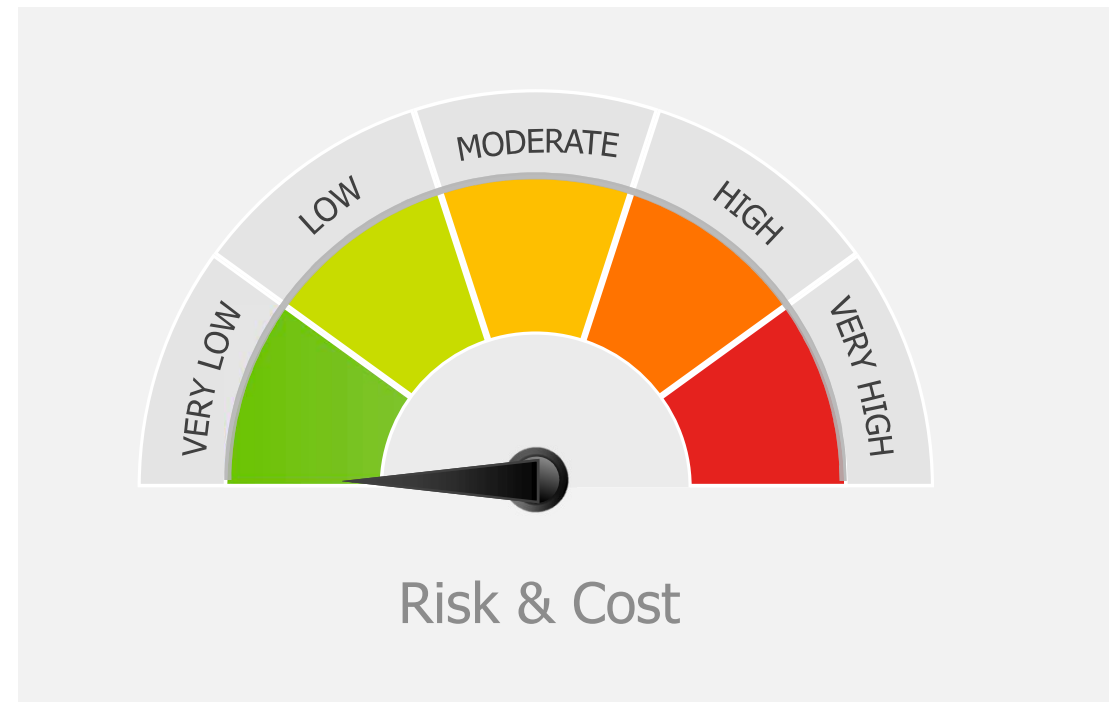
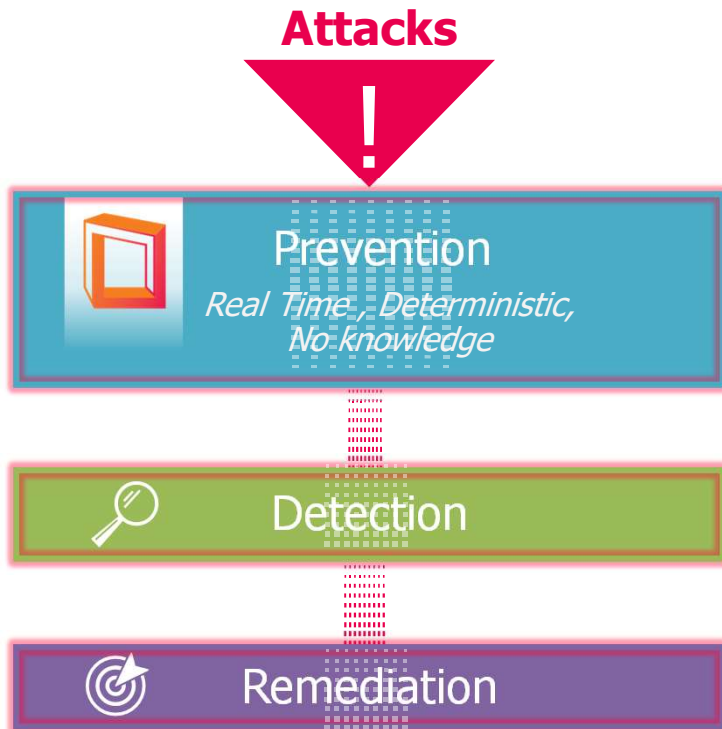
EXISTING
architecture



Prevention

The Most Strategic Element in the Security Architecture

MORPHISEC architecture



Our Innovation Moving Target Defense

Attacker's Advantage:
Predictable static targets



EXISTING SOLUTIONS

Reactive Detection

Defender's Advantage:
Unpredictable moving targets

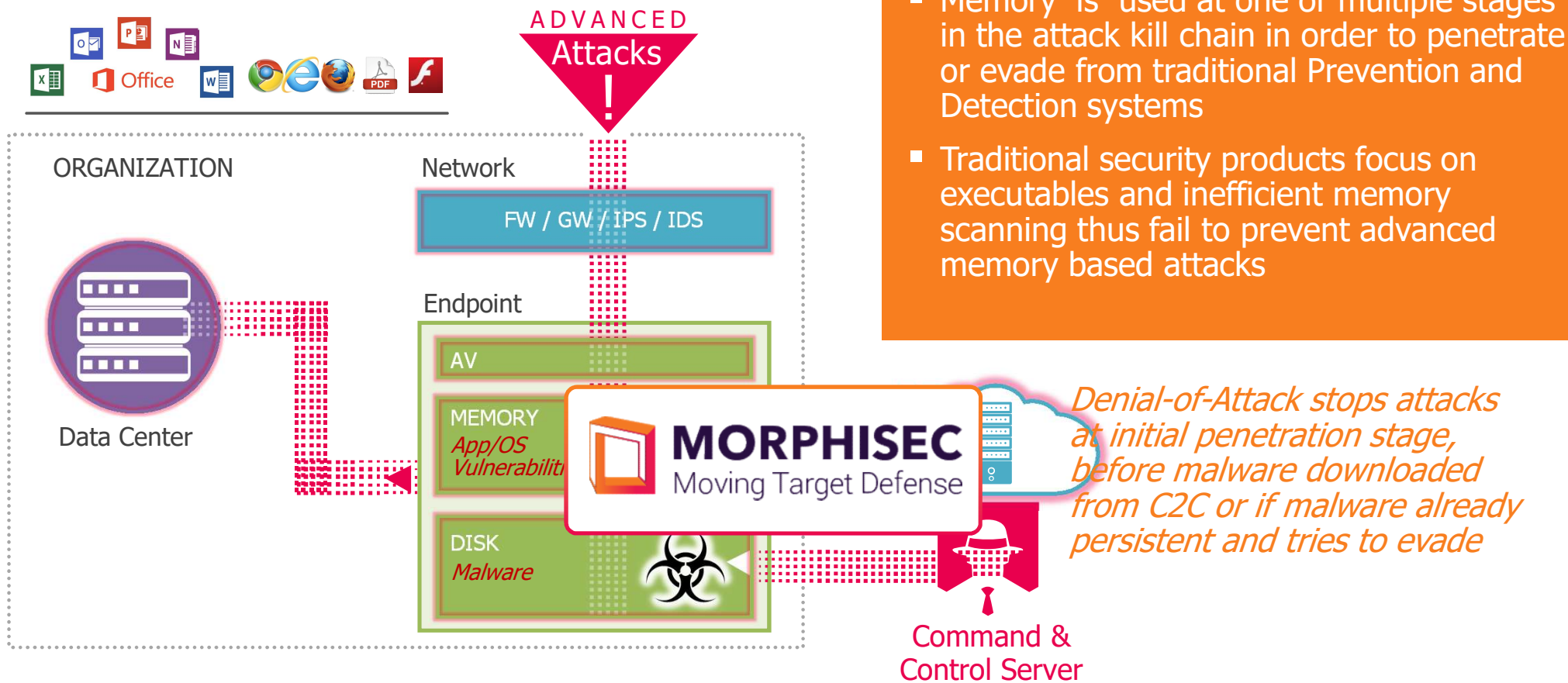


MORPHISEC

Proactive Prevention

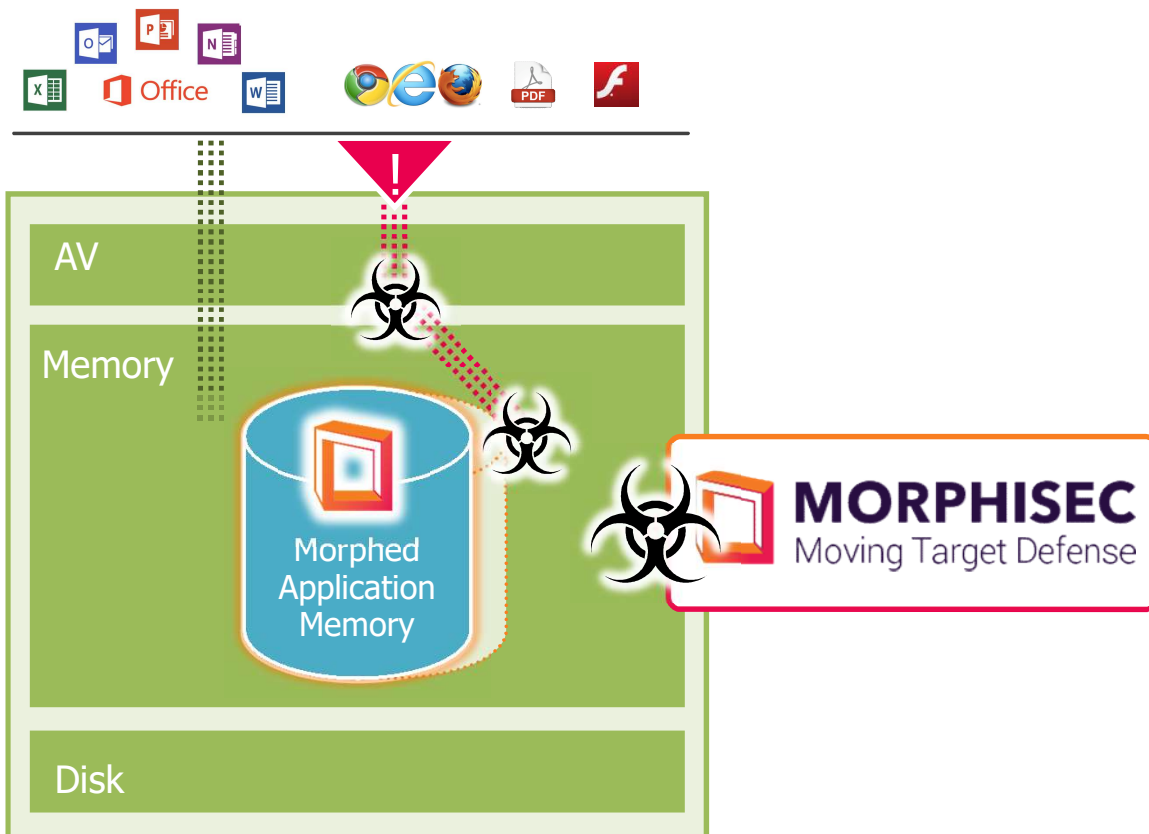
Memory

A Mission Critical Battlefield



- Most of advanced attacks uses memory resources and vulnerabilities in applications and operating systems.
- Memory is used at one or multiple stages in the attack kill chain in order to penetrate or evade from traditional Prevention and Detection systems
- Traditional security products focus on executables and inefficient memory scanning thus fail to prevent advanced memory based attacks

Moving Target Defense Implementation



End Point

Prevention

Prevents zero-days, targeted and unknown attacks, with no prior knowledge

Deterministic

Eliminates false positives

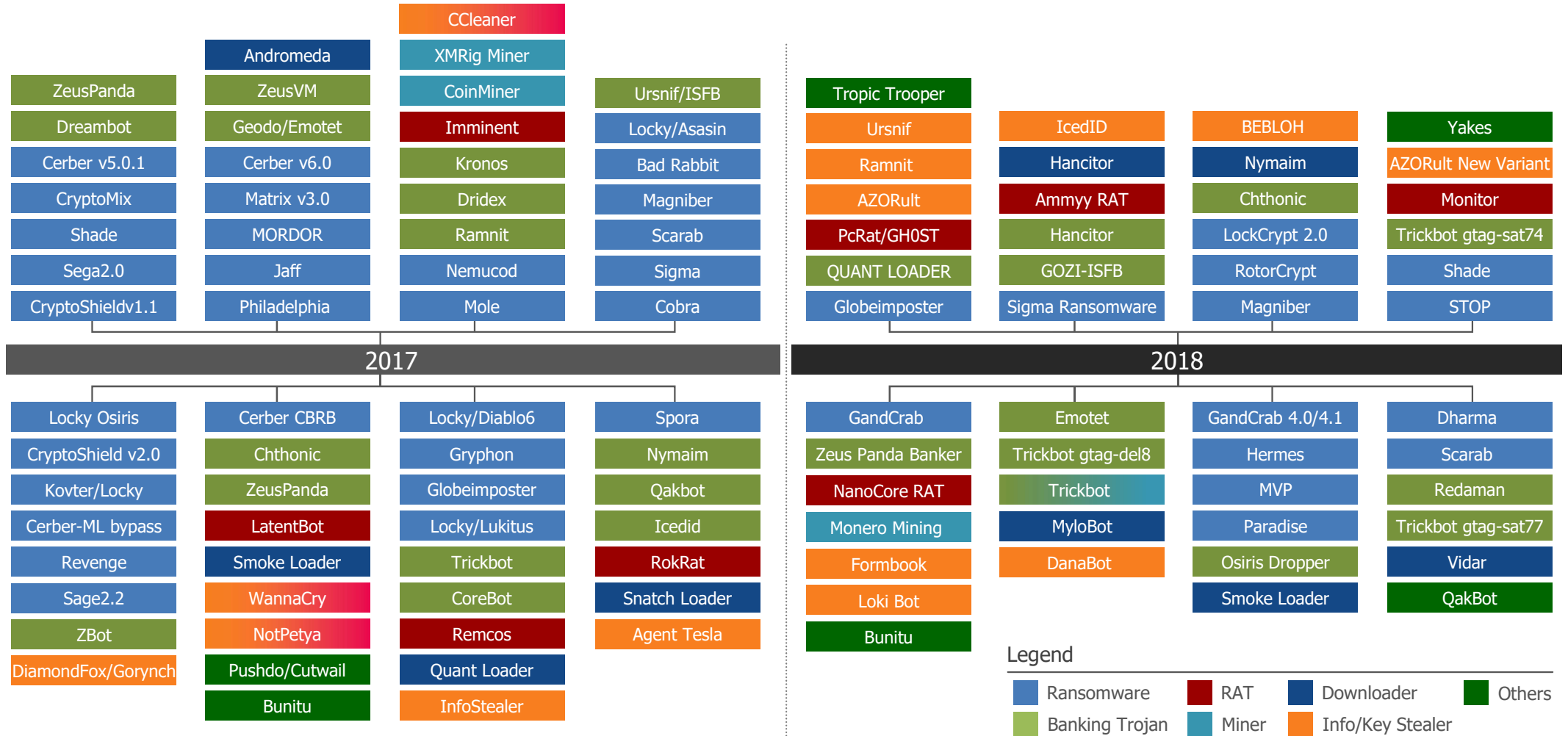
Resilience

Randomization of each process – Moving Target

Protection Coverage

	Infiltration	Pre-execution	Execution
E-Downloads	Non-Executable Attachments	Zip, Scripts, Payload	Payload
	Documents	Exploitation, OLE, Macro	Fileless Payload
	Links	Shortcuts, Shares, Web	Logical
Web	Drive by Downloads	Exploit Kits (Prevalent)	Payload
		Malicious Script	Flash, Java, VB, Plugins
Physical		Payload	
		Kernel Exploitation	
Network	Kernel Exploitation	Shellcode Injection User-mode	
	Additional Network Based Attack	Persisting Through Kernel	
		Lateral Movement	Payload

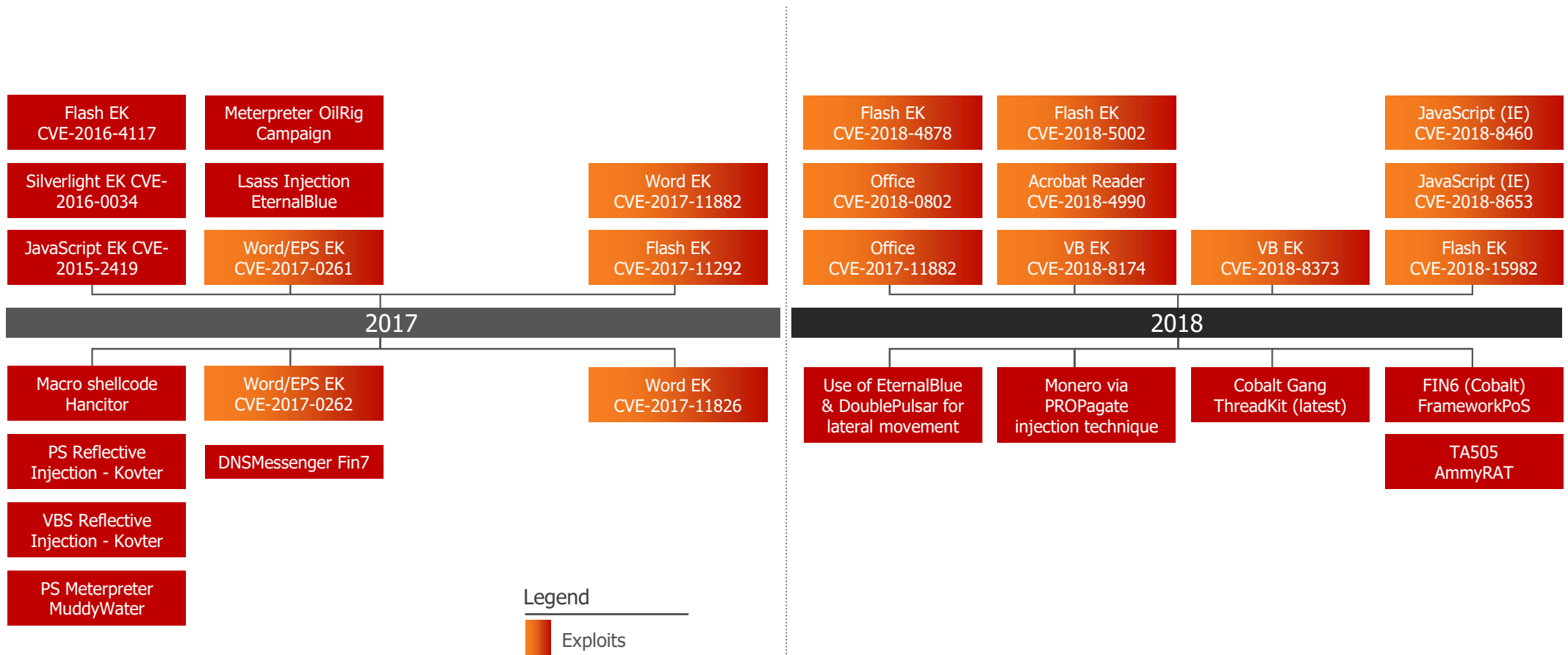
Malware Prevented by Morphisec





Legend


- Ransomware
- Banking Trojan
- RAT
- Miner
- Downloader
- Info/Key Stealer
- Others

Attack Vectors & Exploits (Fileless) Prevented



Preventing the Unknown

CXO HARDWARE MICROSOFT STORAGE INNOVATION HARDWARE APPLE MORE ▾ NEWSLETTERS

 **MUST READ:** [Hands-on with Microsoft HoloLens 2: More comfortable, more intuitive and more potential](#)

Retail industry endures new point-of-sale cybercrime spree

The harvest of sensitive data is at hand, but it is not certain who is behind the campaign.



By [Charlie Osborne](#) for [Zero Day](#) | March 1, 2019 -- 11:47 GMT (11:47 GMT) | Topic: [Security](#)

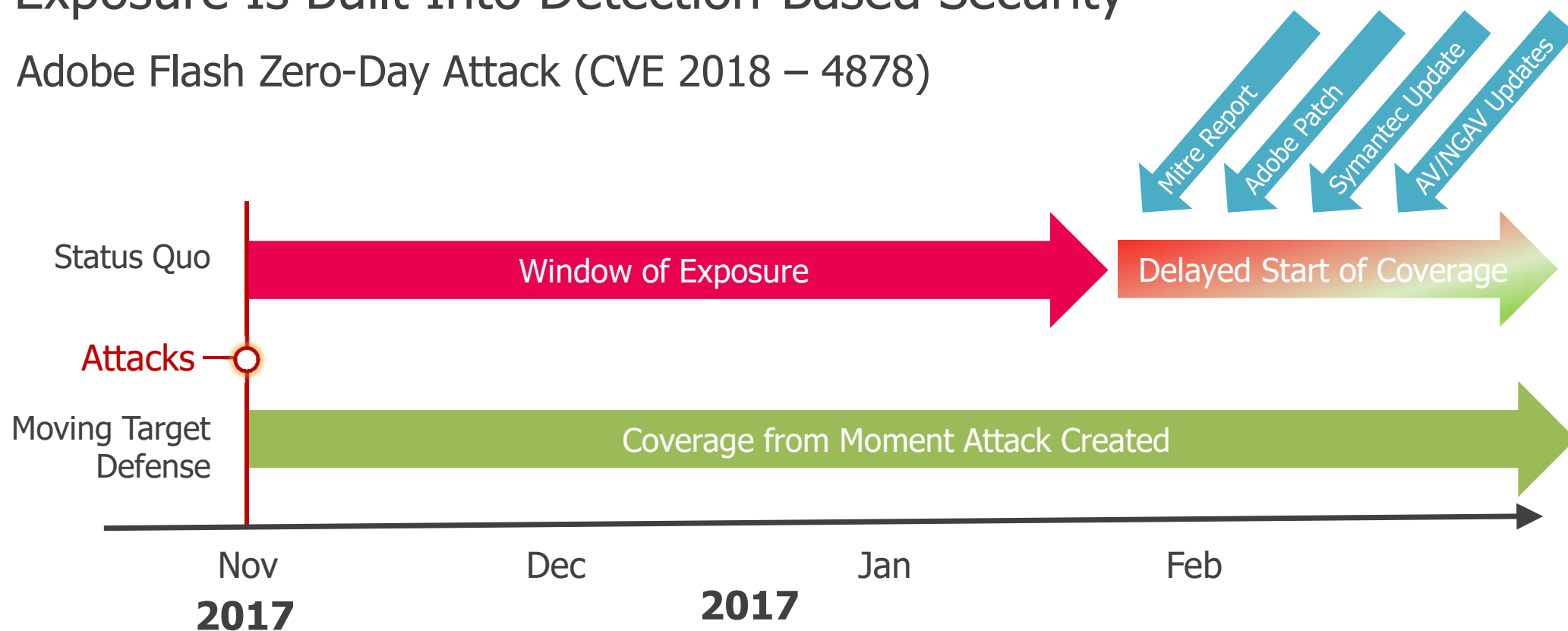
According to [researchers from Morphisec](#), Cobalt Strike -- in tandem with malicious payloads -- can be used to hijack systems, execute code, harvest credentials, and is also able to circumvent EDR scanning.



Time

Exposure Is Built Into Detection-Based Security

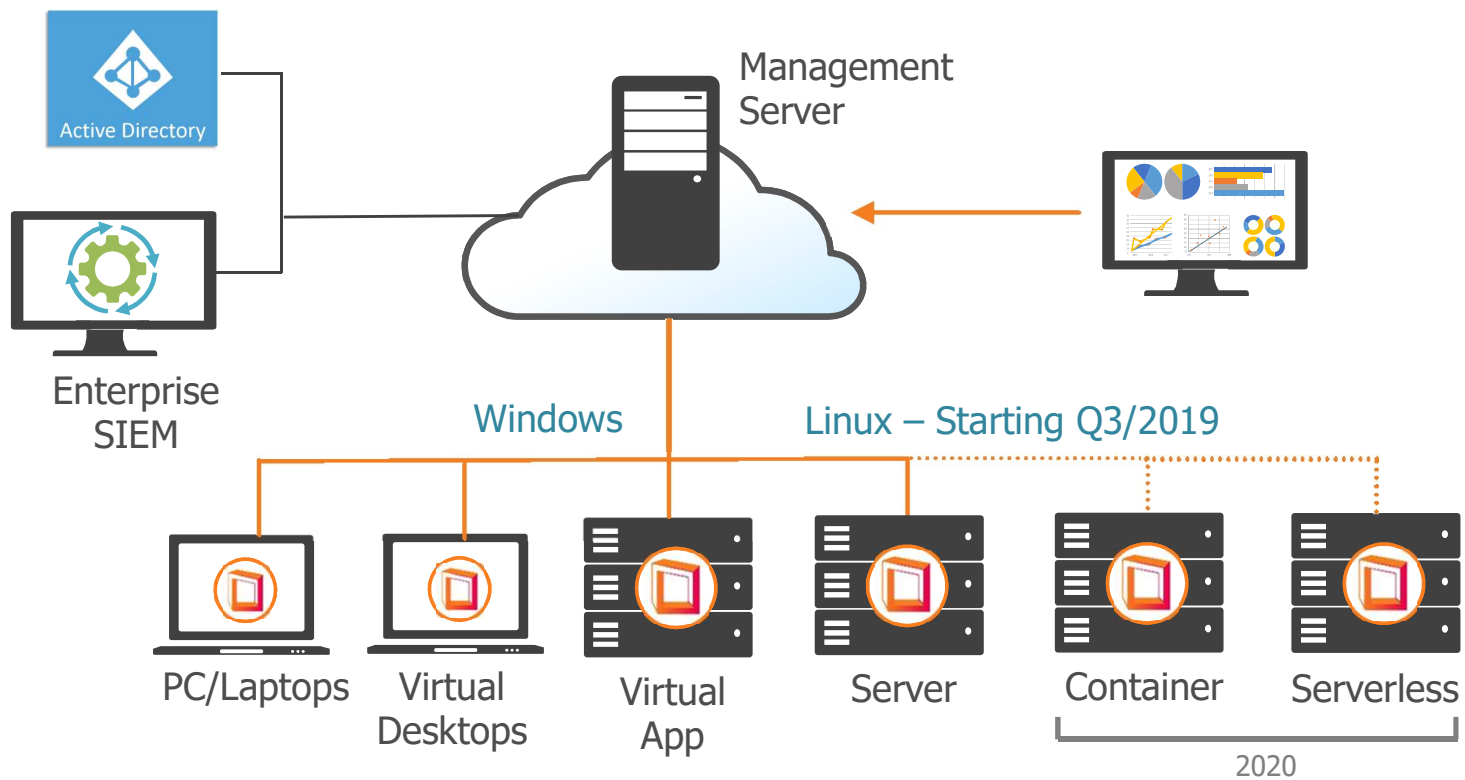
Adobe Flash Zero-Day Attack (CVE 2018 – 4878)



Need for Prevention Without Detection Is Acute

Morphisec Unified Threat Prevention (UTP) Platform

On-Prem, Private/Public Cloud



Install

- 2MB user mode agent
- SCCM / standard dist
- No reboot
- No configuration
- No rules / policies

Maintain

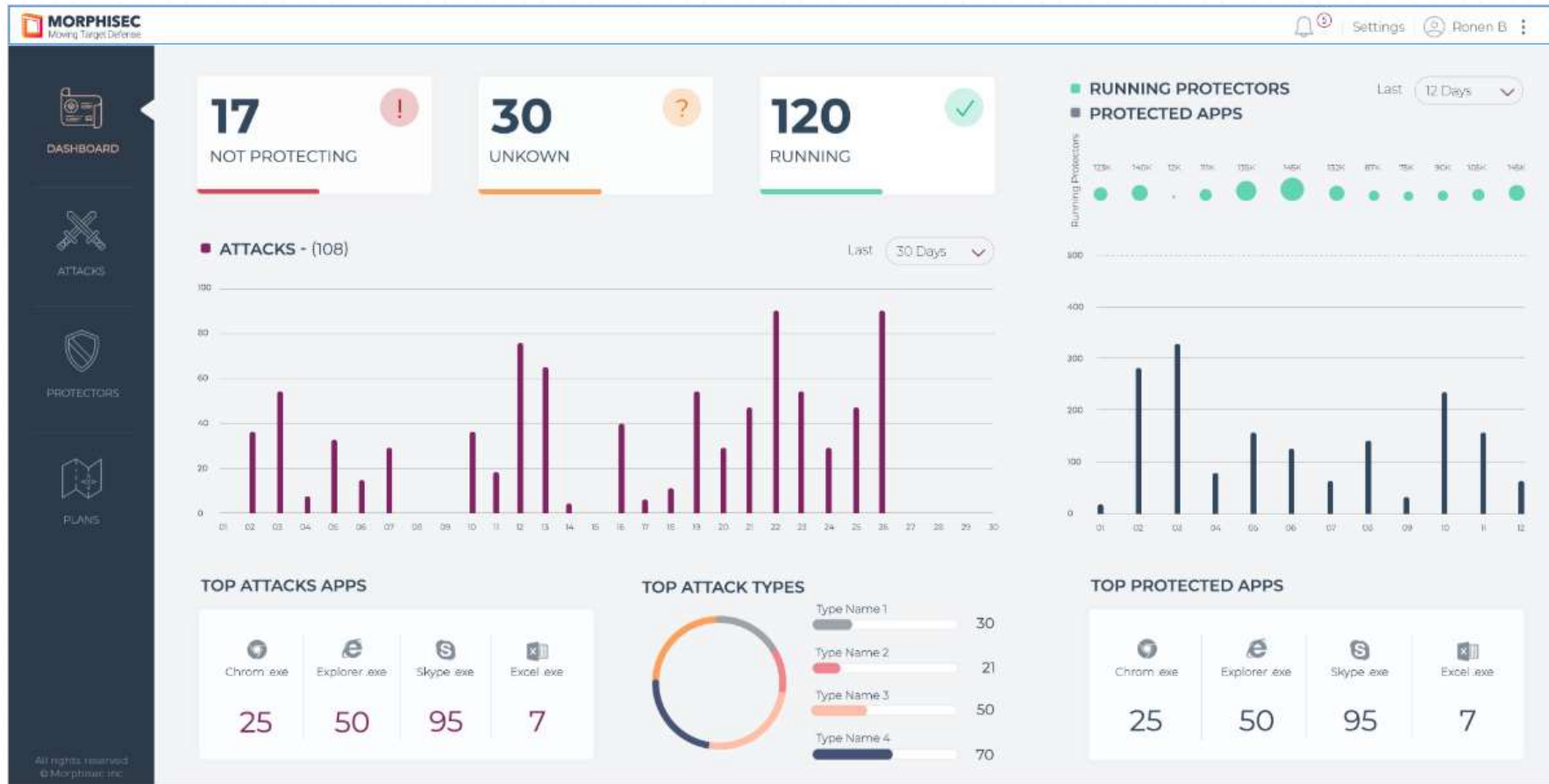
- Prevention reports
- No updates
- Offline protection
- No CPU consumption



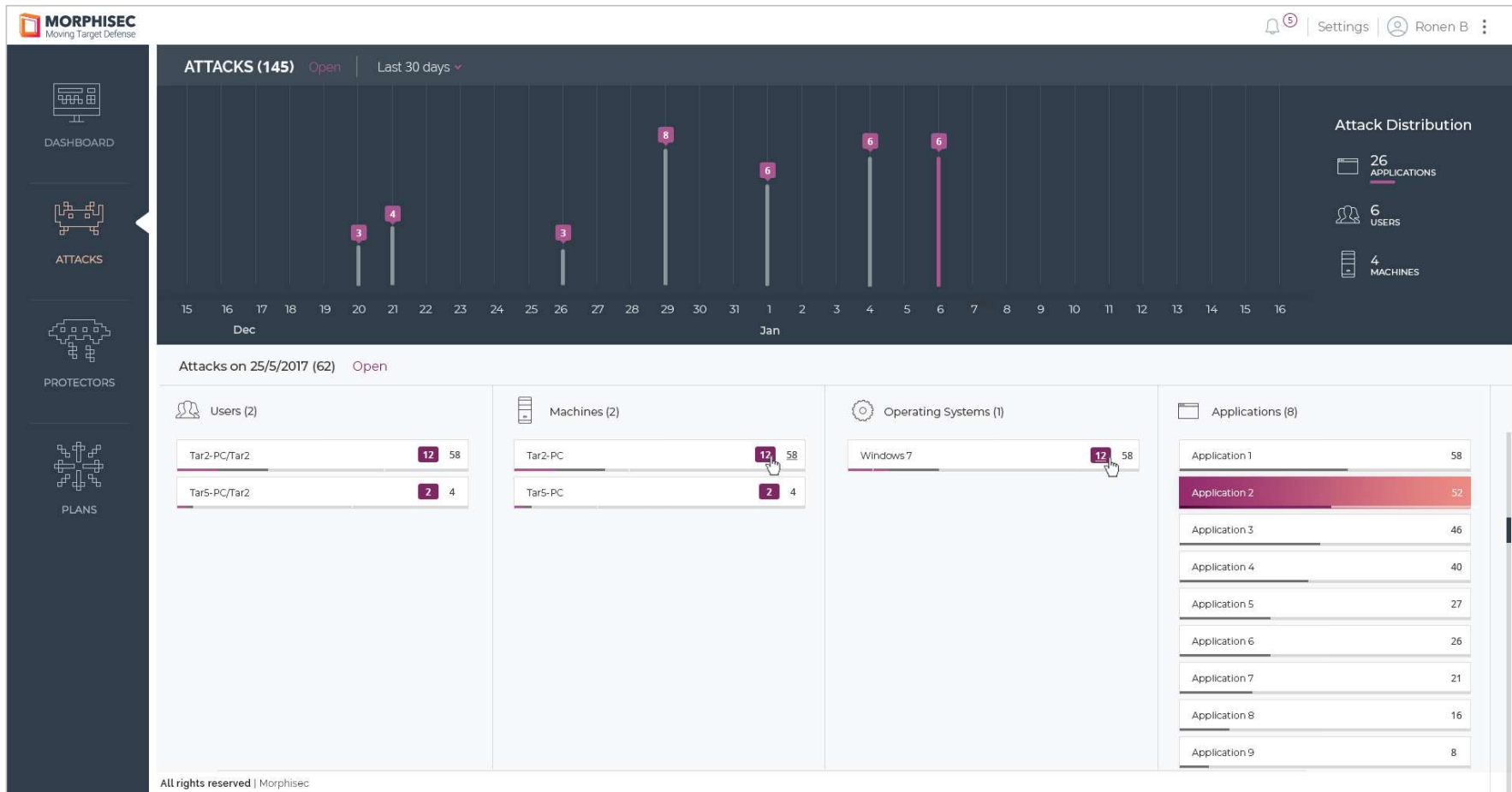
vmware®



Control and Visibility



Control and Visibility



Control and Visibility

MORPHISEC Moving Target Defense

Settings Ronen B

ATTACK DETAILS

12 JUN 2018 / 4:45 PM POWERPNT. EXE ATOM BOMBING EXPLOIT

Demo / Robert

12 Jan 2018 / 9:10 AM

Robert - Excast win 10 - V23

03:40 PM iexplorer.exe

03:41 PM Outlook.exe

04:45 PM powershell.exe

Powerpnt.exe

ATTACKED PROCESS - EXTENDED INFO

Injecting Process:
C://Windows/System32/wbem/WmiPrivSE.exe

Process Signature:
Signer: Microsoft Corporation Signed on: 12Feb2017

Process File path:
C://Windows/System32/wbem/WmiPrivSE.exe

Command Line

All rights reserved © Morphisec Inc

The Optimal Prevention Stack – the 80/20 rule



- Lower cost
- Higher operational efficiency

MITIGATED BREACH RISK

80%

Primary

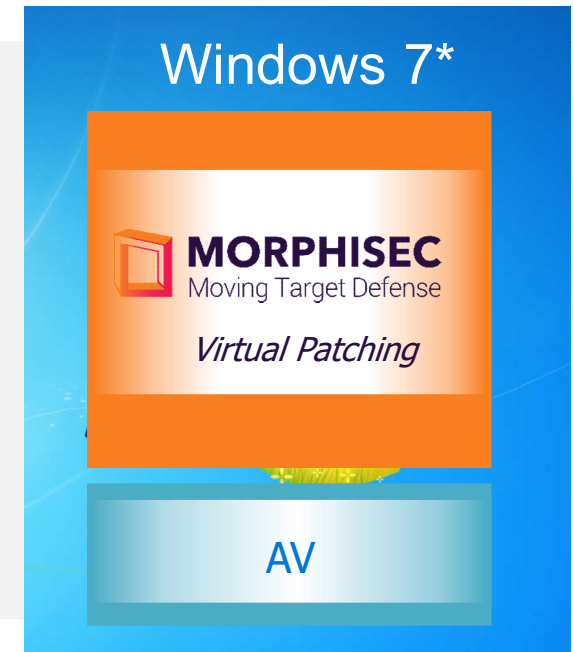
**Unknown,
In-Memory**

File-less attacks
Evasive malware
Exploits
Web / browser attacks
File document attack
Supply chain attack

20%

Residual

**Known &
Non-memory**



Compliance

* Extended Supports ends Jan 20'

Ecosystem and Technology Partners

SIEM/SOAR



Virtual Platforms



EDR



Windows
Defender ATP

Technology Research



**Homeland
Security**

The Next Generation
Cyber Infrastructure
(NGCI) Apex
Program

Challenges Defending Against Advance Threats

Status Quo

AV, NGAV, and EDR



- Requires discovery
- After the fact



Time

- Instantaneous, early, and effortless

- Malware focus
- Poor at unknown attacks



Vectors

- Prevents evasive, unknown attacks
- Virtual patch

- Alerts
- Complexity



Simplicity

- Disables attack framework
- 'Set and forget'
- Time to value

- Cost burden on defender
- Endless escalation



ROI

- Shifts costs to attacker
- Low TCO
- Defense in Depth

Strategic Value Proposition

Security as Business Enabler



Proactive prevention
Future-proof
Window 7 compliance

Risk Reduction



Rapid time to value
Simple operations
Reduced cost of stack
Empowers security teams

Operational Savings



Operational continuity
User productivity

Business Enablement

Morphisec benefits to Enterprises – A CxO's perspective



*Instantaneous,
Effortless &
Deterministic
Prevention*



Prevent Unknown Attacks

- Time
- Vectors

"Morphisec prevents unknown cyber attacks with zero time delay for discovery and detection"

- Richard Rushing,
CISO Motorola



Set and Forget

- Time to value
- Ease of use
- TCO / ROI

"The ROI of Morphisec is the ability to use resources to target other problems."

- Skip Rollins, CIO
Freeman Health



Risk Reduction

- Flat risk
- Virtual patch
- Defense in depth

"Morphisec is a core component of my defense-in-depth strategy."

- Adrian Asher, CISO
London Stock Exchange Group

Rapid Customer Ramp

2.7M Protected Endpoints

100% Renewals

No Churn

Financials



London
Stock Exchange Group

Merrick Bank



Channeles



Manufacturing



Services

