MORPHISEC
Moving Target Defense

Changing Endpoint Security, For Good!

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Gartner Cool Vendor 2016

People's Choice Award 2016 pwc

CITRIX Ready

Microsoft Partner
Virus Information Alliance

About MORPHISEC

- Founded in July 2014
  - Technology out of Ben Gurion University Cyber research labs
  - Winner of JVP's 2014 RSA Cybertition contests
- Product launched in May 2016
- 45 employees (Israel, The Netherlands, India and Boston)
- Fundraising:
  - $1.5M Seed in July 2014 (JVP)
  - $7M Series A in August 2015 (GE, DT)
  - $3M SVB venture debt in February 2017
  - $12M B-round in December 2017

Client References - Worldwide

The Problem

Source: Palo Alto Networks

"Wannacry", "Petya", "Bad Rabbit" May - October 2017

Company	Industry	Consequences
Merck	Pharma	• Destruction of data • R&D work halted
Maersk	Shipping	• Shipping halted
Nuance	Software services	• Ops at healthcare users of Nuance halted
DLA Piper	Law	• Halted operations • Loss of client confidence
Reckett	Manufacturing	• Forecast $130M revenue loss
Cadbury	Manufacturing	• Production frozen • Forecast 3% revenue loss
Fed Ex / TNT	Shipping / logistics	• Shipping halted

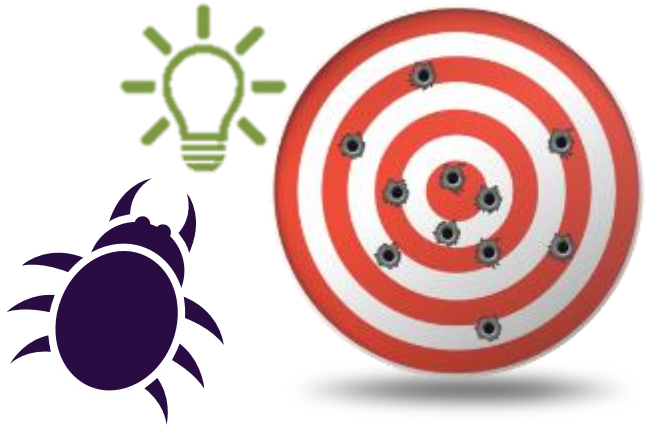
Cyence, a firm that helps insurers measure cyber risk, estimated that economic costs from NotPetya would total $850M.

Do we need additional endpoint technology ?

Attacker's Advantage:

Predictable

static targets



Existing Solutions:

Reactive Detection

- Operational
  - (opex, labour, resources, operational risks)
- Business continuity
  - (Patching, systematic risks, remediation efforts)
- Brand recognition / marketing
  - (brand value, public opinion, social media)
- Regulatory & legal
  - (GDPR, audit, regulation, liability risks)

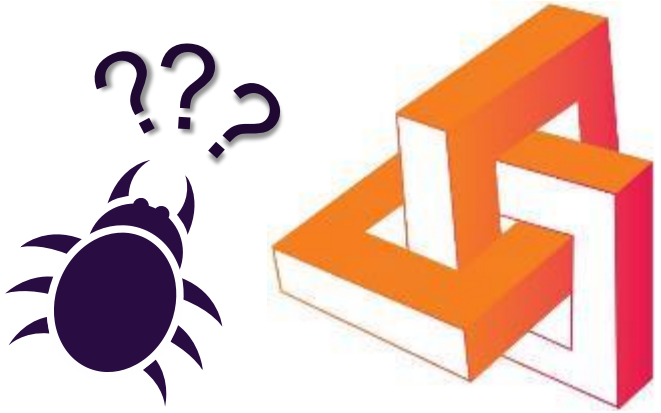
What if ?

- Operational
  - (opex, labour, resources, operational risks)
- Business continuity
  - (Patching, systematic risks, remediation efforts)
- Brand recognition / marketing
  - (brand value, public opinion, social media)
- Regulatory & legal
  - (GDPR, audit, regulation, liability risks)

Defender's Advantage:

Unpredictable

moving targets

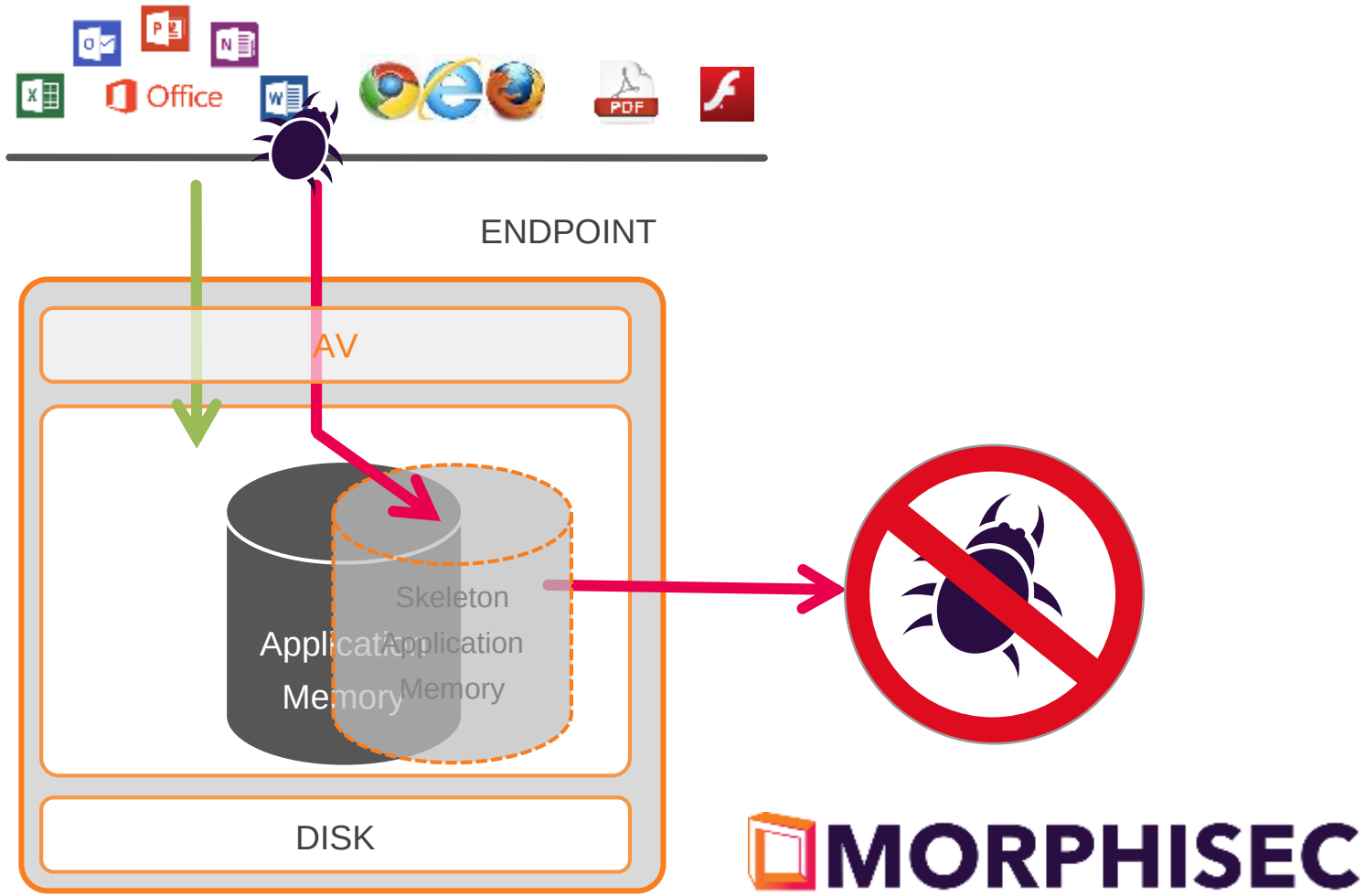


Proactive
Prevention
Pre-Breach !

The Solution – Moving Target Defense

- Prevention:
  - Prevents zero-days, targeted and **unknown** attacks, with no prior knowledge
  - **Pre-Breach prevention** as opposed to Post-Breach Detection
- Deterministic
  - Eliminates false positives
  - Defined area of true positive alerting
  - Ubiquitous effect
- Resilience
  - MTD – Morphisec of each process, changes attack economics
- Camouflaged environment
  - You can only attack what you know of and can identify / see

The Morphisec Solution – Moving Target Defense



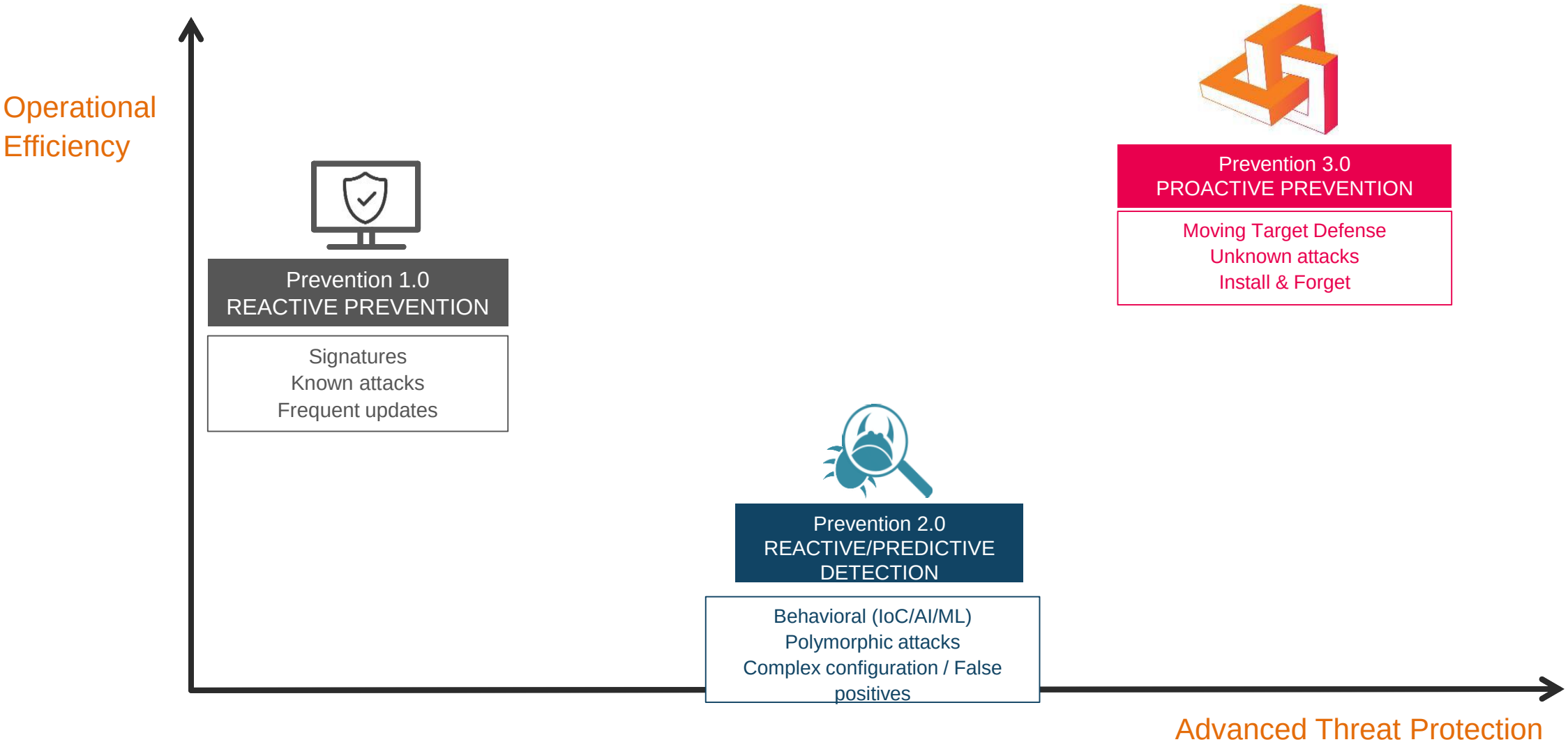
Protector – a Slim Service

- 2Mb DLL, User Mode, MSI
- Windows 7,8,10, 2008, 2012, 2016

Install & Forget!

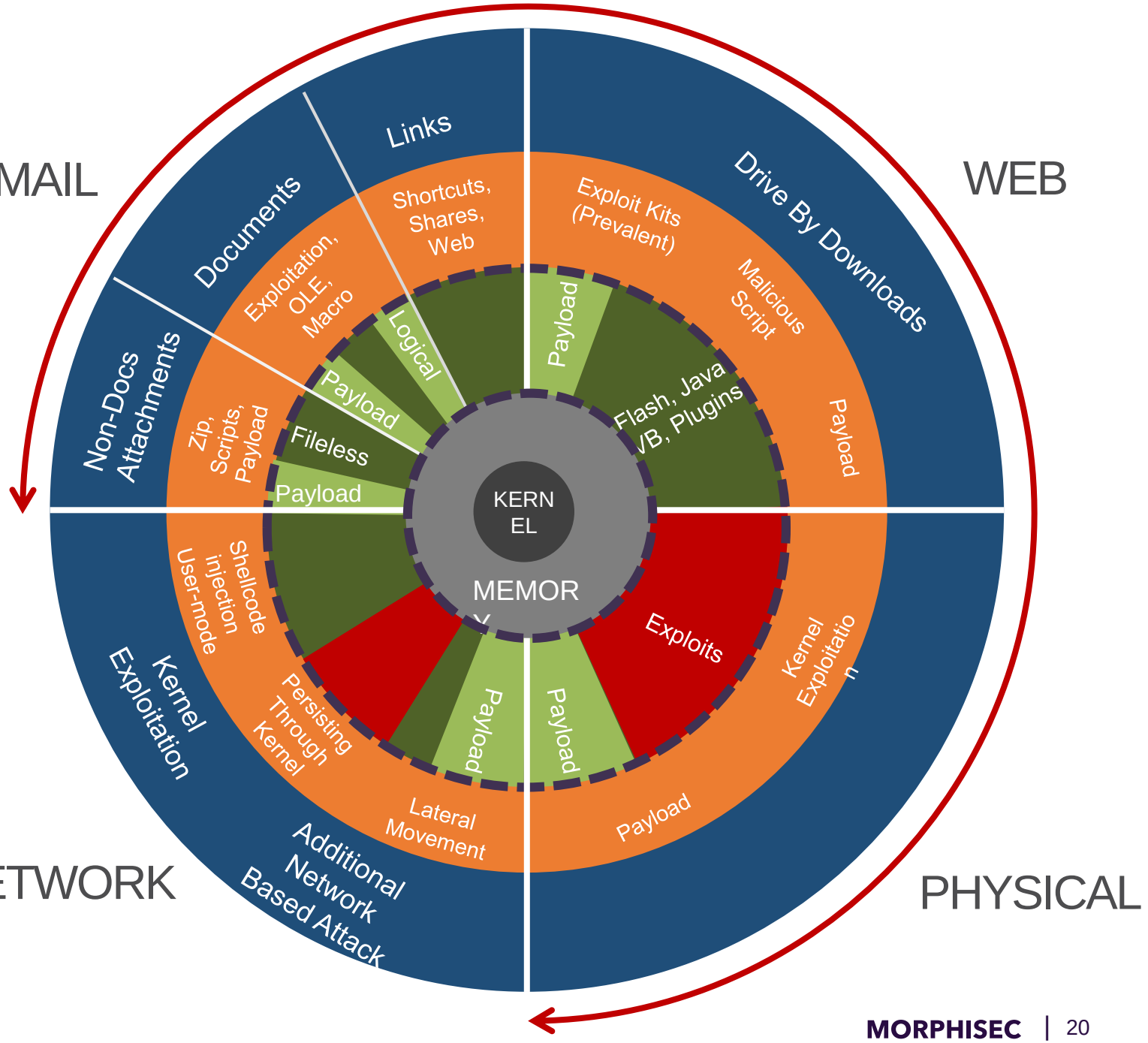
- No reboot
- No configurations
- No database, signature-less
- No false positives
- No Network load
- No performance penalty
- Application agnostic
- Autonomous
- Compatible

Endpoint Security Evolution



Morphisec Attack Coverage

Full Coverage
Partial Coverage
No Coverage



Infiltration
Pre-execution
Execution
User Vectors: Social Engineering / Phishing

MORPHISEC

Moving Target Defense

Your Business !

A Powerful and Simple Security Stack

Endpoint

In-Memory Attack Techniques

Known Executables

The Ideal Stack Has…

- High prevention efficacy
- Operational efficiency
- Low impact on the endpoint
- Less patching and re-imaging
- Resilience to attack trends
- Low on-going cost and maintenance
- Compatibility with security agents

Client Benefits!

Security

- Safeguard endpoints from advanced in-memory attacks
- Enhance defense for production / unpatched system: advanced attacks originate on endpoints
- Disrupt attackers' business model – they will go elsewhere

Simplicity

- Less time and effort to deal with advanced attacks
- No impact on IT or production operations
- Install & Forget, built for global scale at minimum operating expense and risks

Business

- Resistance to destructive disruption of business or production operations
- Leapfrog over restrictive security tools and practices
- For customers, differentiated and superior security posture

Use Cases

Main reasons:

- Reduce significantly the risk of unpatched vulnerabilities
- Extremely low operational overhead – practically zero management intervention
- Quick and simple roll-out – had immediate roll-out to 1700 endpoints.

Leading Security solution vendor (US based)
Some of you might have their product installed.

Main reasons:

- Require simple and low management solution for End Points.
- Being a research engineering institution, users require Admin rights on the endpoints and regularly install / remove proprietary applications. Morphisec Moving target Defense, being application agnostic, fits this business requirement.
- 4000 End points, immediate and simple roll-out achieved.
- Several APTs stopped since roll-out.

Leading Research institution (US based)

Use Cases (cont.)

Main reasons:

- Limited security resources were unable to manage NextGen AV – too many false positives and heavy management overhead.
- Morphisec provided a simple solution, completely deterministic (reduced false positives to minimum) and quick to roll-out.
- Completed world-wide installation, >20,000 endpoints in less than a month.

Leading Manufacture Automotive Industry Fortune 500 Company (worldwide)

Main reasons:

- Multiple proprietary financial applications running on VDI environment (service center, analysts, partner network)
- Morphisec was able to reduce massively false positive rate and provide critical zero performance penalty operation which was impossible to achieve with AV solutions on the VDI servers.

Financial Institution (Israel)

Main Reasons:

- Running multiple proprietary apps (and local packages) on a locally developed VDI infrastructure.
- Required a slim, no hassle solution.
- Required protection on both host and VDI environment

Hotel Chain (Israel)

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Moving Target Defense

Our Company !

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THANK YOU!

PROACTIVE PREVENTION

POWERFUL PROTECTION

AFFORDABLE SECURITY

SECURITY THAT LASTS