



Mohou pokročilé hrozby ovlivnit digitální transformaci e-governmentu?

Horymír Šíma, Fortinet

Network Security Leader

Fortinet is among the top 5 public cybersecurity companies in the world.

Its broad portfolio of solutions spans Network, Infrastructure, Cloud, and IoT Security.



\$12B Mkt Cap



~\$1.8B - 2018
(revenue)



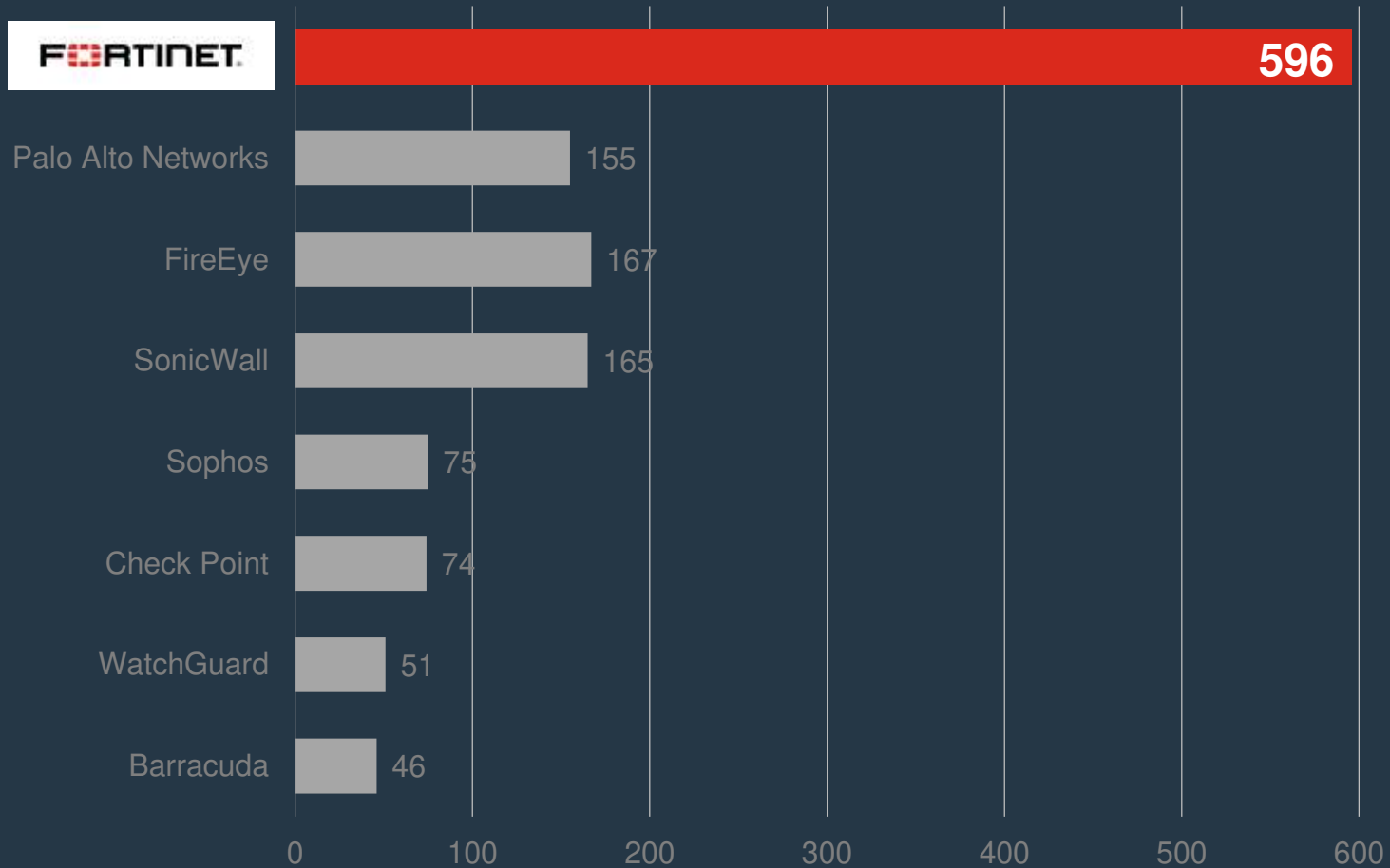
385,000+
Customers



4.4M+ Appliances
Shipments Worldwide
(+30% units WW)

** As of Sept 30th 2018*

We Lead The Industry in Innovation



#1 Security Innovator

Competitor data based on patents issued as listed by the U.S. Patent and Trademark Office

566 U.S. Patents

30 International Patents

596 Global Patents

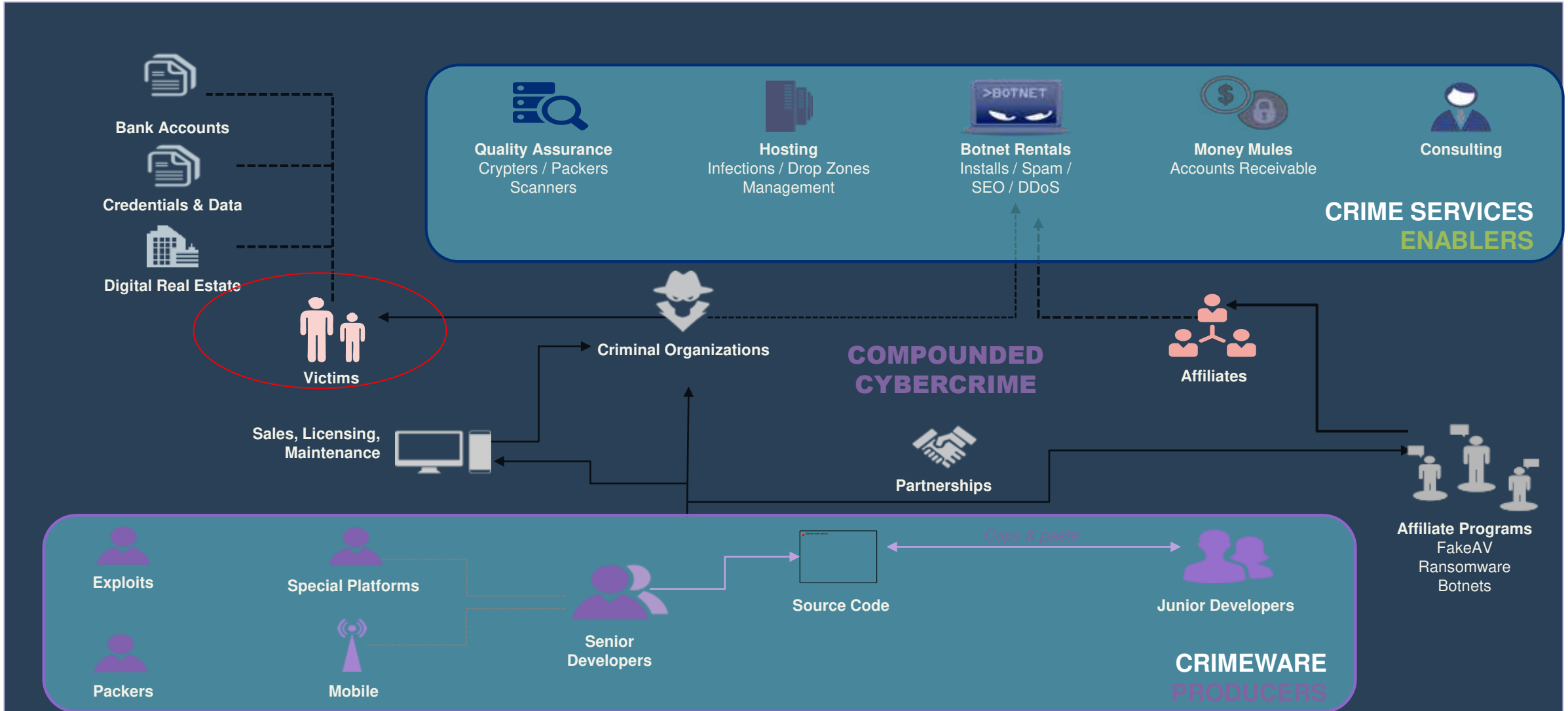
Jaká kybernetická rizika digitální transformace dnes hrozí?

Aktuální hrozby pro e-government.

Changes in Cyber Since 2007

	2007	2017
Threat Actors	<50	>1,000
Threat Types	<50	>1,000,000
Alerts/Day (Average Per Firm)	<1,000	>1,000,000
Security Vendors	<100	>2,300
VC Investments	<\$500M	>\$6B
Security Spending	<\$3B	>\$80B

Cybercrime Marketplace Ecosystem



Existing approaches are not working...

- Missing basics due to complexity
- Cyber is complex is growing
- IT teams are overwhelmed
- Perimeters are disappearing
- Determined threat actors can break anything
- IT teams are missing security basics
- Less awareness and control
- Make complexity work for us



Kde bezpečnostní technologie obvykle neuspějí?

Představení funkčního systému pro optimální ochranu proti kybernetickým hrozbám (zejména pro ty, kteří ho ještě nemají nebo nevyužívají naplno).

Fortinet Security Fabric

BROAD

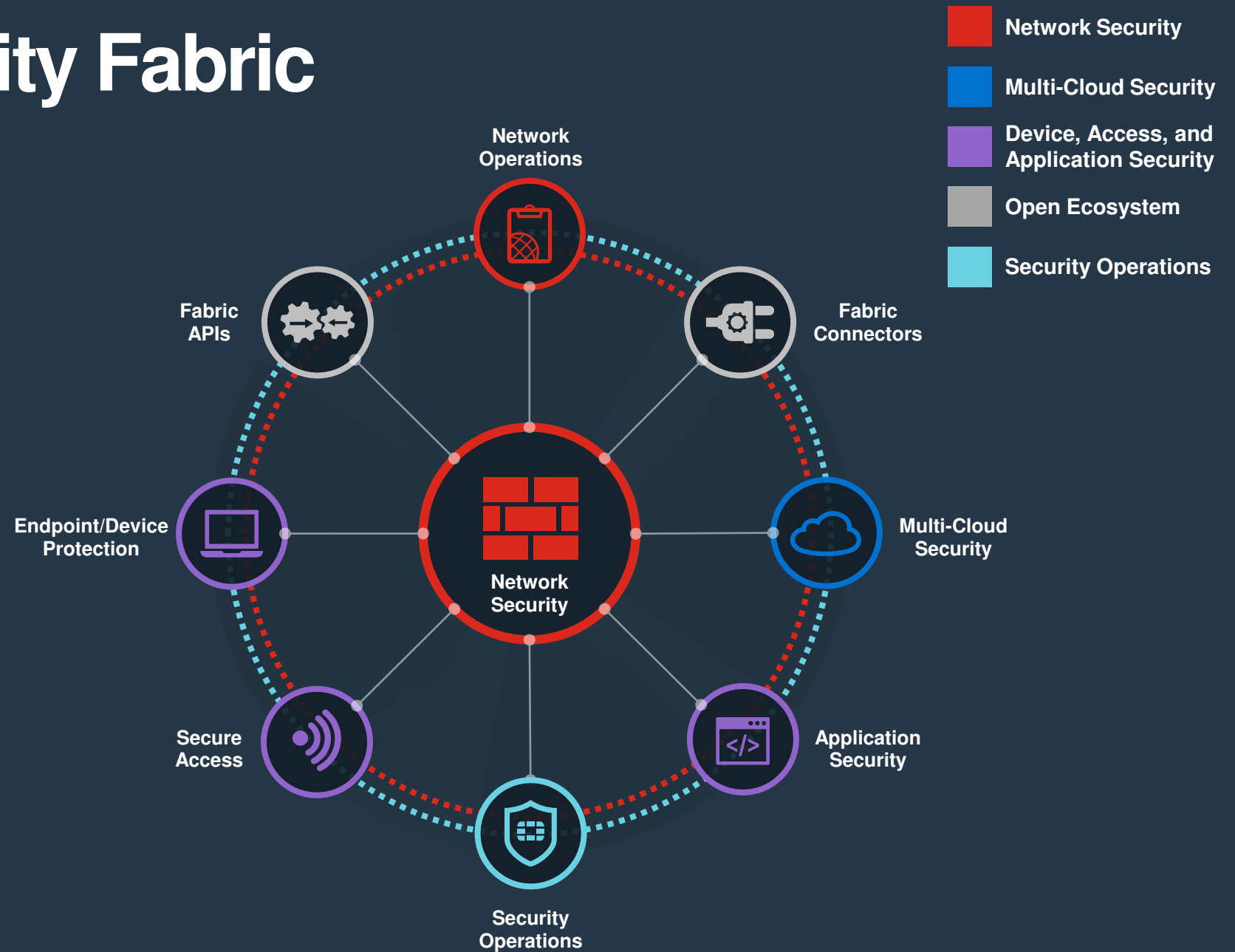
Visibility of the entire digital attack surface

INTEGRATED

AI-driven breach prevention across devices, networks, and applications

AUTOMATED

Operations, orchestration, and response



The Broadest Security Portfolio in the Industry

Network Security



Open Ecosystem



Multi-Cloud Security



Endpoint Security



Email Security



Web Application Security



Secure Unified Access



Advanced Threat Protection



Management & Analytics



Fabric-Ready Ecosystem Partners

Expand the Reach of the Fabric

MANAGEMENT



ENDPOINT



CLOUD/NFV/SDN



Fabric APIs

VULNERABILITY/SIEM



TECHNOLOGY



IOT/OT/NAC/IDENTITY

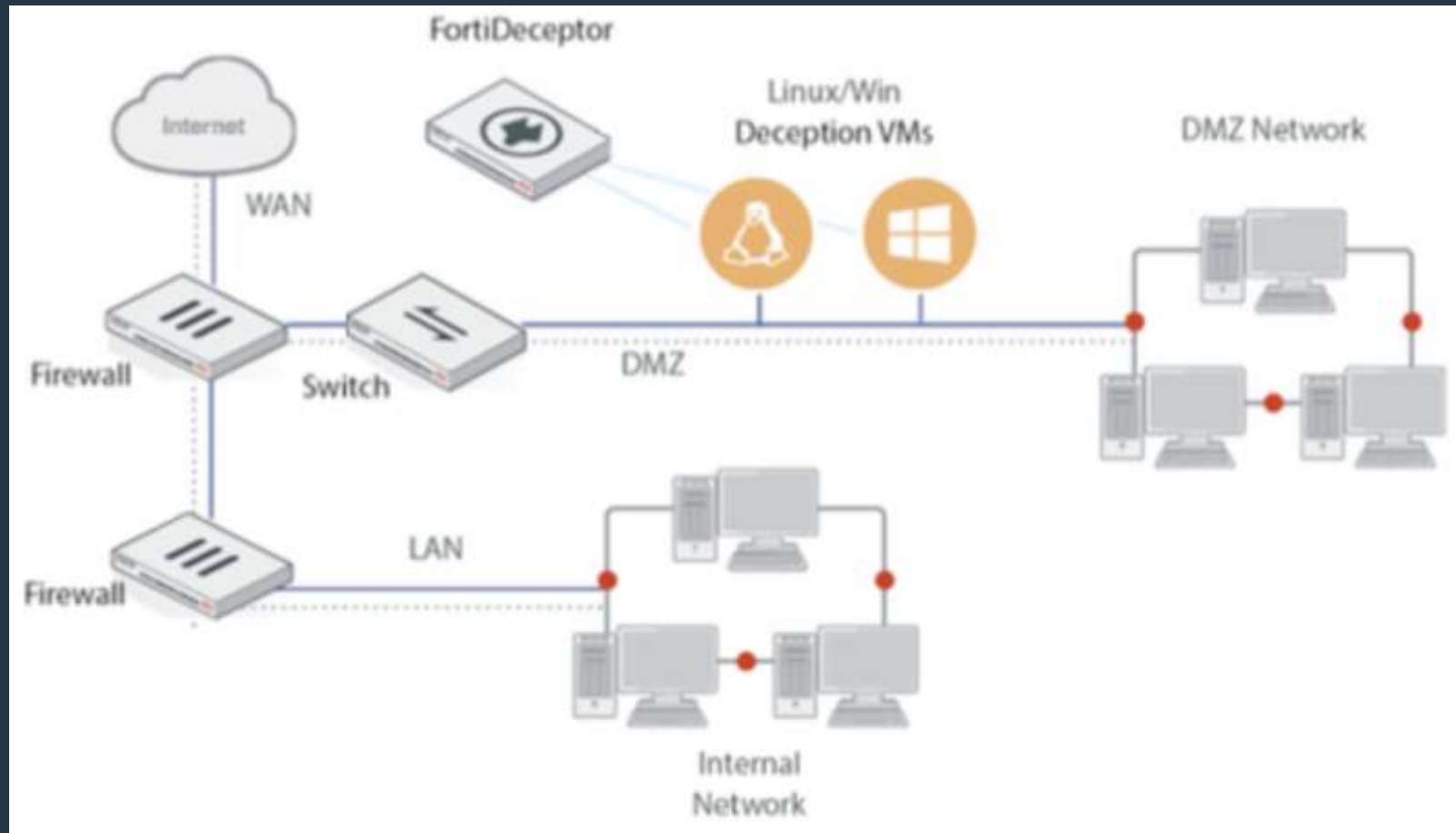


Fabric Connectors

Co můžeme udělat více než aplikovat sandboxing?

Mohou uživatelé využívat Internet opravdu bezpečně?

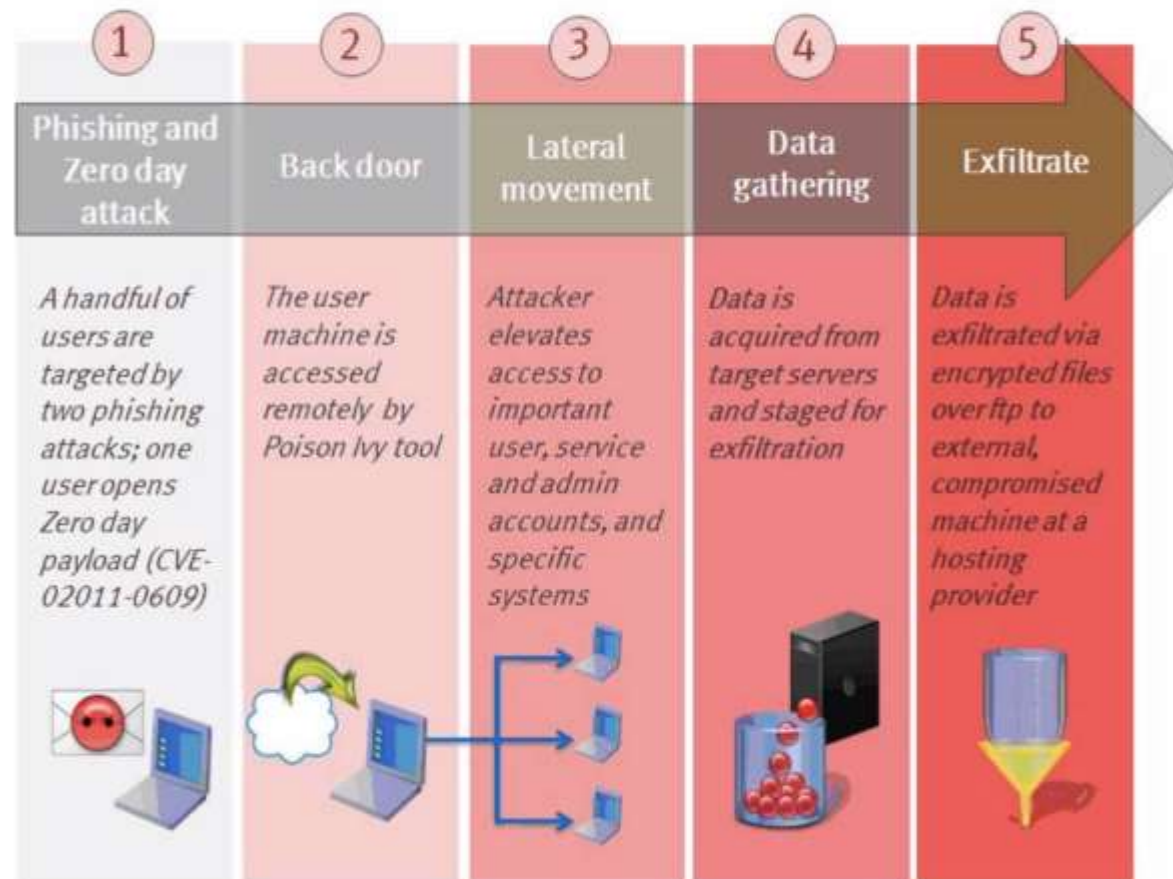
Forti Deceptor *in DMZ mode*



Forti Deceptor

WHY USER NEEDS FORTIDECEPTOR

- Traditional defenses cannot defend a perimeter with 100% certainty. It's not a question that if your network can be compromised or not, but when and how frequently.
- Challenges of current internal network protections
 - » FACTS: Under 4% of alerts are investigated. Users receives overwhelming alerts every day, with a lot of FP
 - » FACTS: Hackers use legitimate tools and tokens to do lateral movement which are always white listed
 - » FACTS: On average, an ATP attack is discovered after 7 months after initial breach. Hackers spend 80% of their time at Lateral movement step
- Customer needs a way to detect hackers existence in a fast and accurate way.
- FortiDeceptor (FDC) considers from hacker's point of view and methodology to create decoys and tokens and mix them within existing IT resources to lure hackers to engage during their lateral movement
- Alerts are almost 100% accurate without FP. Any party that seeks to identify, ping, enter or utilizes a decoy is immediately identified
- It can integrate with other product to kill attacks quickly



Forti Deceptor

FORTIDECEPTOR HIGHLIGHTS

DECEIVE

- Utilize deception technology
- Manage, update, view and scale decoys and deception tokens at a centralized location
- Auto detect user's production network; setup deception hosts and install decoys to allure hackers to engage
- Deception VMs and decoys are real OS, high-interaction and appear indistinguishable from real IT assets

EXPOSE

- Detect, trace and correlate hacker's lateral movement
- Sys Admin is notified immediately of network compromise through Web UI, Email, SNMP traps and logs
- Provide detailed forensic information of hacker's lateral movements and activities
- Further analysis of dropped payload with FortiSandbox technology

ELIMINATE

- Increase hacker's cost
- Redirect hacker's attack to deception hosts from production servers
- Quarantine infected endpoints and stop connection to C&C servers to break the kill chain
- Slow down ransomware's infection by generating endless fake documents on protected endpoint

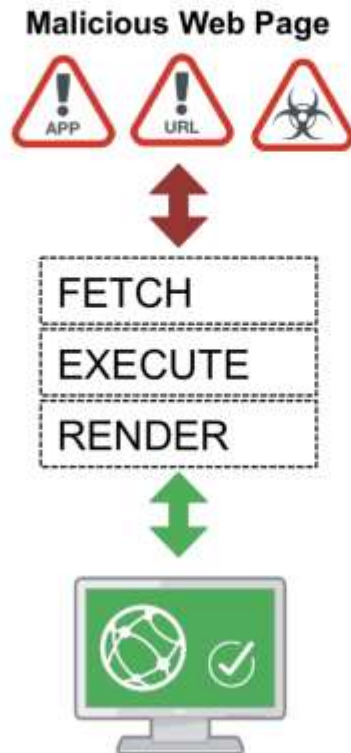
FABRIC

- Integrate with FortiGate, FortiSwitch, EMS/FortiClient and 3rd party products to stop the kill chain
- Work with FortiSIEM for faster detection
- Generate IOC

Forti ISOLATOR

Fortisolator

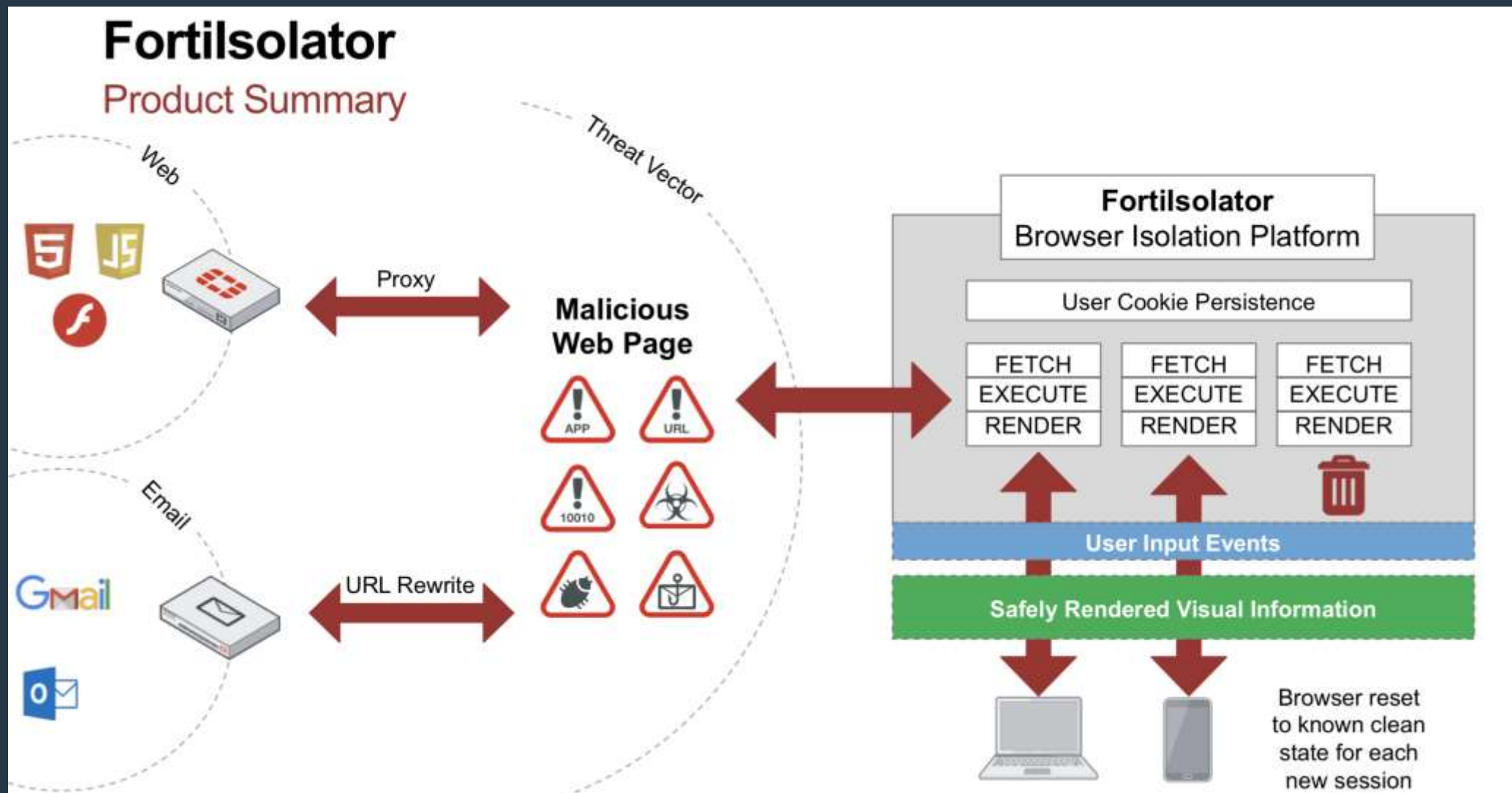
Product Summary



- Clientless remote browser isolation
 - » Works with any modern HTML5 capable browser
- Mitigate against web based threats whilst retaining productivity
 - » No server side code runs on the local machine
 - » Browser session runs in clean remote container
 - » Rendered page image displayed to client
 - » Supports web page interactivity e.g. links, forms, video, audio



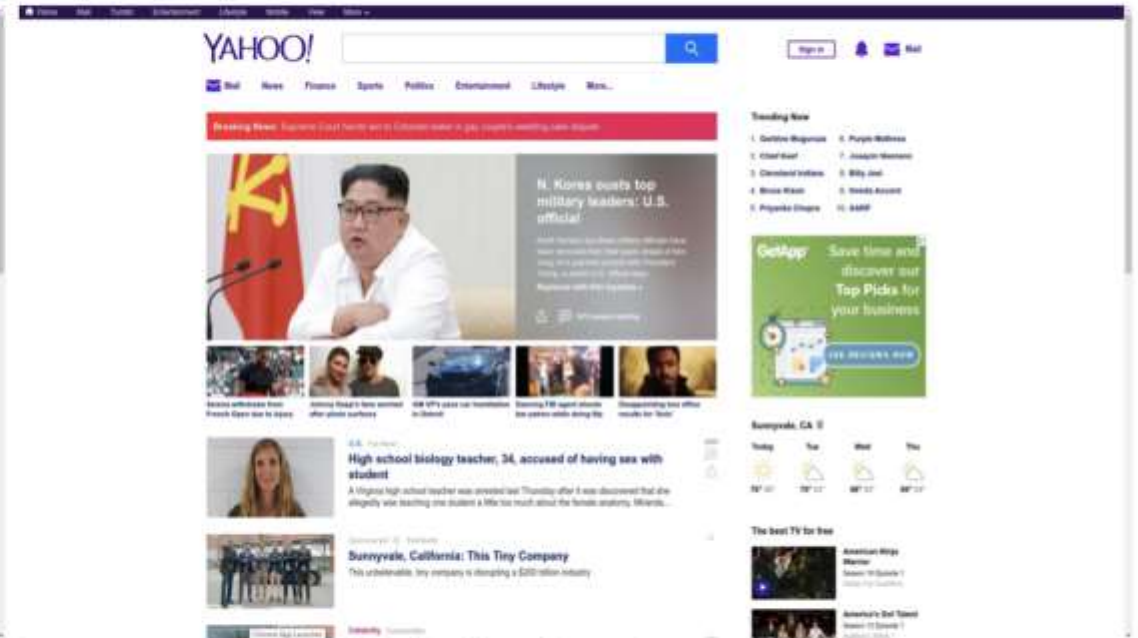
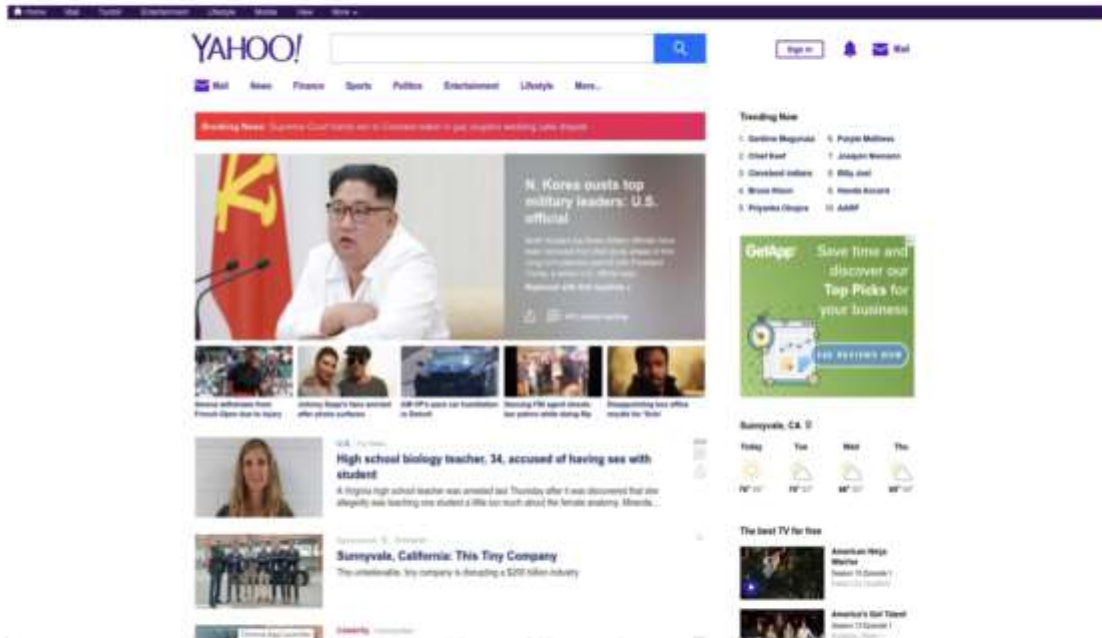
Forti ISOLATOR



Forti ISOLATOR

Direct Access

Fortisolator



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