What's Next for Network Security - Visibility is king!

Gøran Tømte

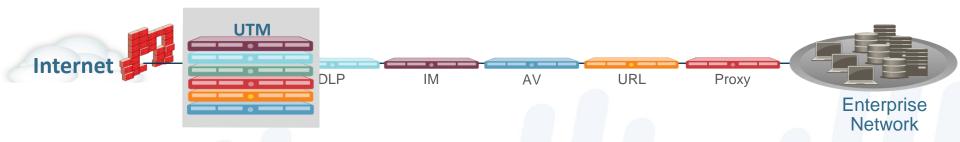
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the network security company™

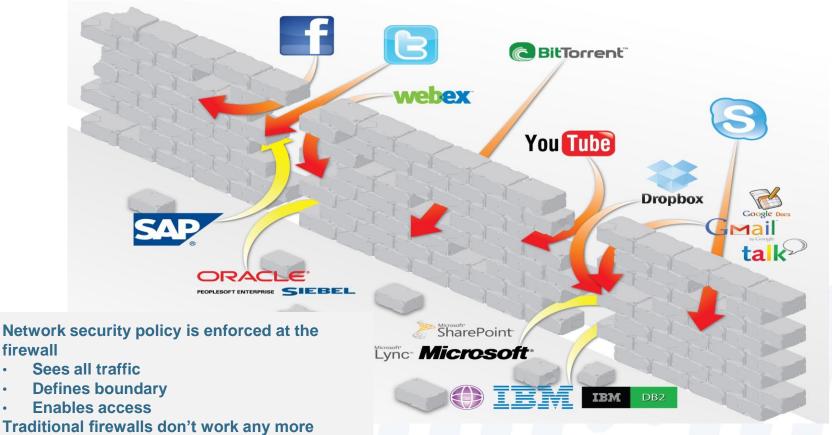
Technology Sprawl and Creep Aren't the Answer

- "More stuff" doesn't solve the problem
- Firewall "helpers" have limited view of traffic
- Complex and costly to buy and maintain
- Doesn't address applications





Applications Have Changed, Firewalls Haven't





Core functions of a next-generation firewall

- 1. Identify applications regardless of port, protocol, evasive tactic or SSL
- 2. Identify and control users regardless of IP address, location, or device
- 3. Protect against known and unknown application-borne threats
- 4. Fine-grained visibility and policy control over application access / functionality
- 5. Multi-gigabit, low latency, in-line deployment



Making the firewall a business enablement tool



 Applications: Enablement begins with application classification by App-ID.



 Users: Tying users and devices, regardless of location, to applications with User-ID and GlobalProtect.



 Content: Scanning content and protecting against all threats, both known and unknown, with Content-ID and WildFire.



All Apps, All ports, All users, All the time

- Signature, protocol and evasive tactic based App-ID
 - Skype
 - Bittorrent, p2p
 - SSL
 - Etc







The unknown! Scary hah?

- Unknown applications
 - Control them
- Unknown users
 - Control them
- Unknown threats
 - Control them







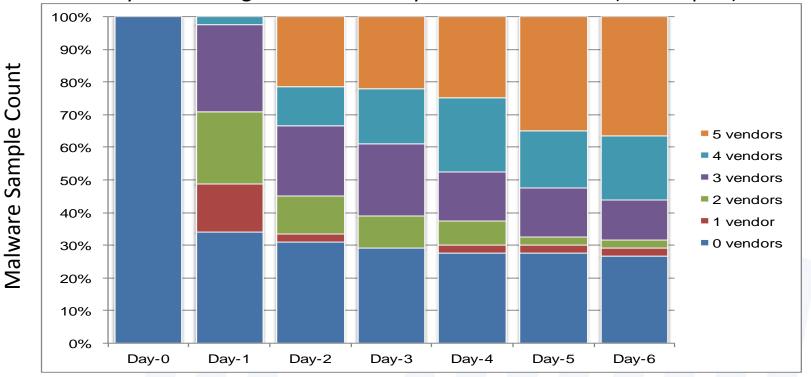


Addressing Modern Malware



Daily Coverage of Top AV Vendors

Daily AV Coverage Rates for Newly Released Malware (50 Samples)



New Malware Coverage Rate by Top 5 AV Vendors



The lifecycle of network attacks



Bait the end-user

End-user lured to a dangerous application or website containing malicious content 2

Exploit

Infected content exploits the end-user, often without their knowledge

3

Download Backdoor

Secondary payload is downloaded in the background. Malware installed 4

Establish Back-Channel

Malware establishes an outbound connection to the attacker for ongoing control 5

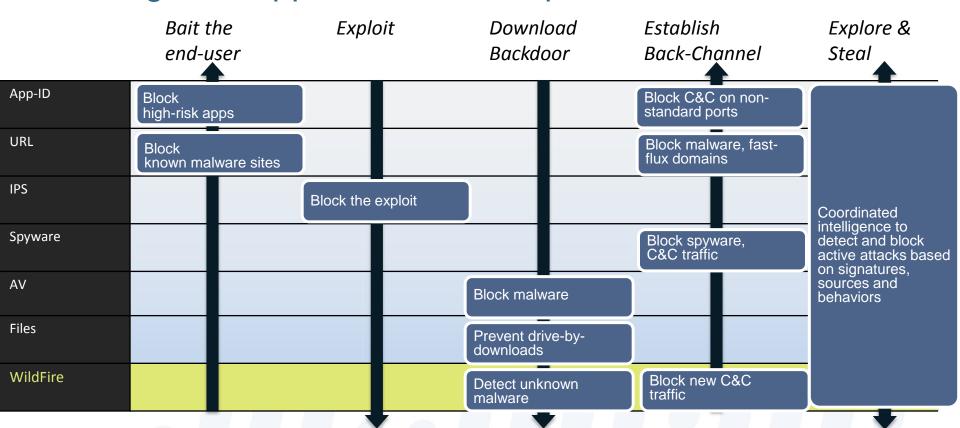
Explore & Steal

Remote attacker has control inside the network and escalates the attack



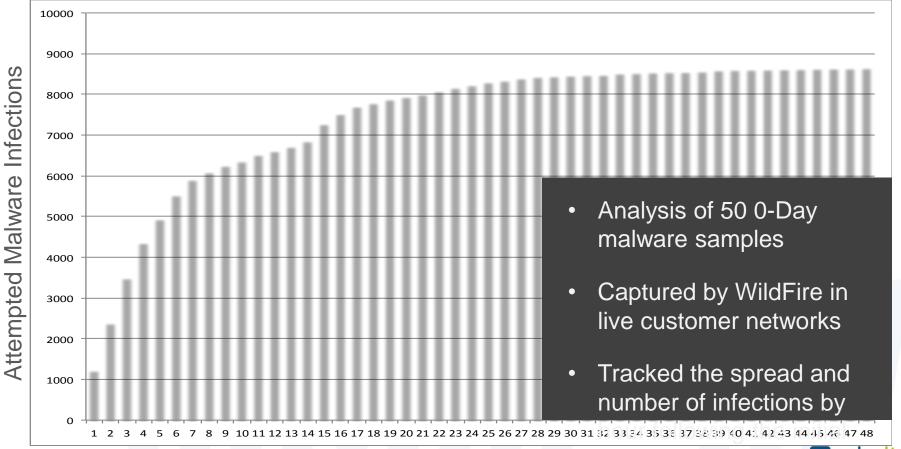


An integrated approach to threat prevention

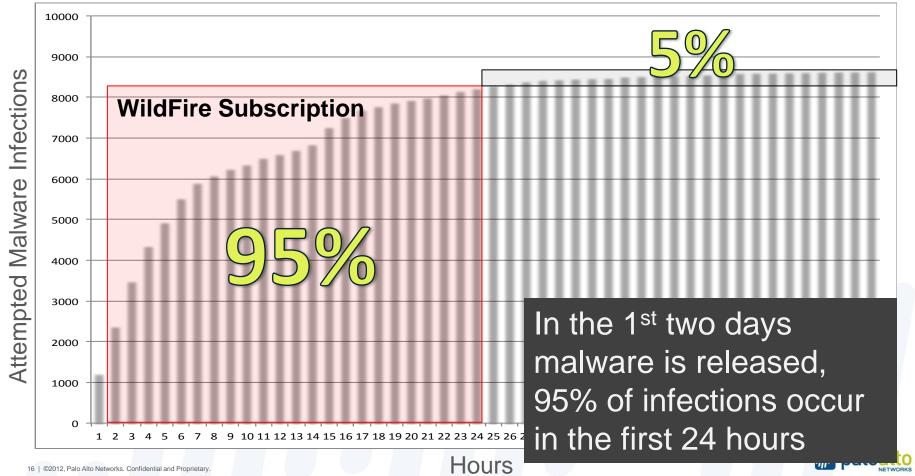




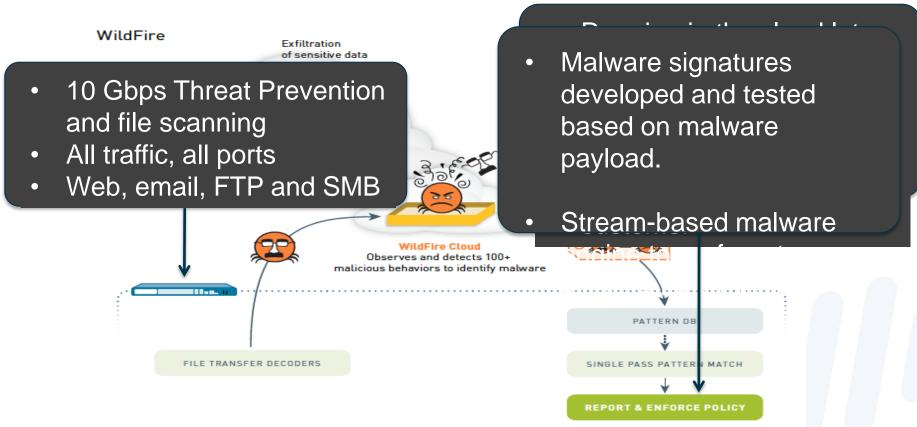
Real-World Spread of 0-Day Malware



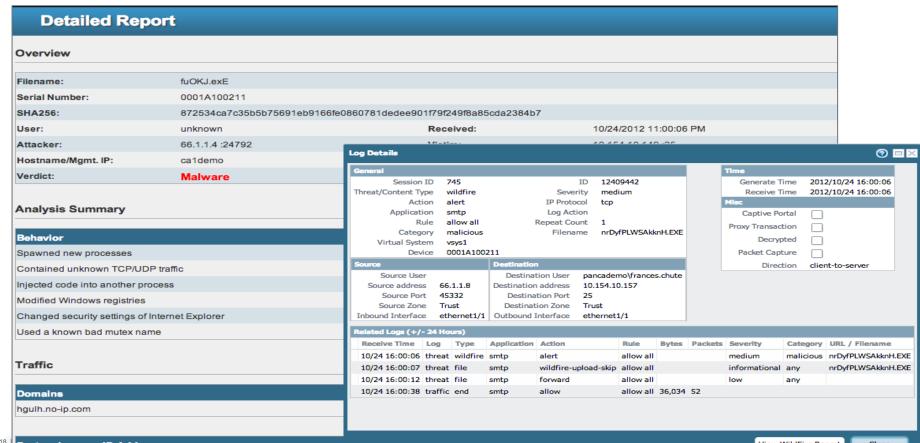
Real-World Spread of 0-Day Malware



WildFire Architecture



Malware Visibility and Logging



1,300+

COMPANIES USING WILDFIRE

417,448

UNIQUE FILES SCANNED IN JA

WILDFIRE

28,612

NEW MALWARE FILES FOUND IN JANUARY USING WILDFIRE 13,233 (46%)
MALWARE NOT INITIALLY

DETECTED BY TOP HOST AV PRODUCTS

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Palo Alto Networks in the DataCenter



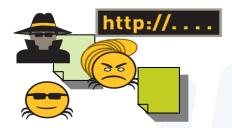
Enabling Applications, Users and Content



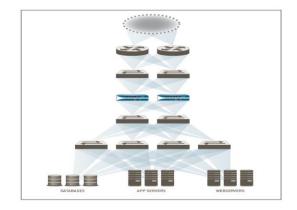
 Applications: Safe enablement begins with application classification by App-ID.

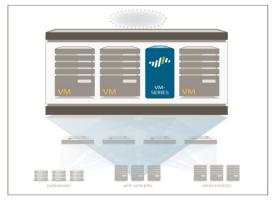


 Users: Tying users and devices, regardless of location, to applications with User-ID and GlobalProtect.



Data Center Evolution







Traditional Data Center

- Dedicated application servers
- Server utilization=15%
- North-South traffic

Virtualized Data Center

- Multiple apps per server
- Higher operational efficiencies
- Improved server utilization

Cloud (Private/Public)

- IT as a "service"
- On-demand services
- Automation and orchestration

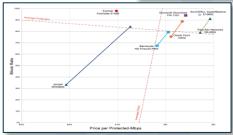
Dynamic, automated, "services-oriented"



Many Third Parties Reach Same Conclusion

- Gartner Enterprise Network Firewall Magic Quadrant
 - Palo Alto Networks leading the market
- Forrester IPS Market Overview
 - Strong IPS solution; demonstrates effective consolidation
- NetworkWorld Test
 - Most stringent NGFW test to date; validated sustained performance
- NSS Tests
 - IPS: Palo Alto Networks NGFW tested against competitors' standalone IPS devices; NSS Recommended
 - Firewall: Traditional port-based firewall test; Palo Alto Networks most efficient by a wide margin; NSS Recommended
 - NGFW: Palo Alto Networks provides the best combination of protection, performance, and value; NSS Recommended (1 of only 3 NGFW recommended)

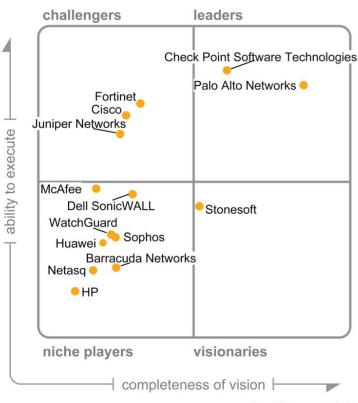




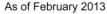


Say no more!!! Leaders quadrant in the leaders quadrant

A crisp focus on enterprise NGFW features and messaging is viewed positively by firewall operators in enterprises.



Most firewall vendor road maps are following the Palo Alto Networks NGFW road map, placing these vendors at a competitive disadvantage.





Next Generation Customer meeting, Ultimate Test Drive

- Ultimate Test Drive
 - En halv dags «hands-on»
 - En PA-200 trekkes blant deltagerne
 - Audi driving school trekkes en gang hvert kvartal



Thank You



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