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What's changed? Volume

Attack vectors
Zero days
Sheer volume



Traditional security design fails to cope with the sheer attack volume and keep pace

What's changed?

Multi-stage attacks and deception

Each man is partly right, though all are in the wrong.



It's a

It's a

Fan!

Traditional security design fails to give full visibility and communicate context to other security technologies

The quote that Darwin never said

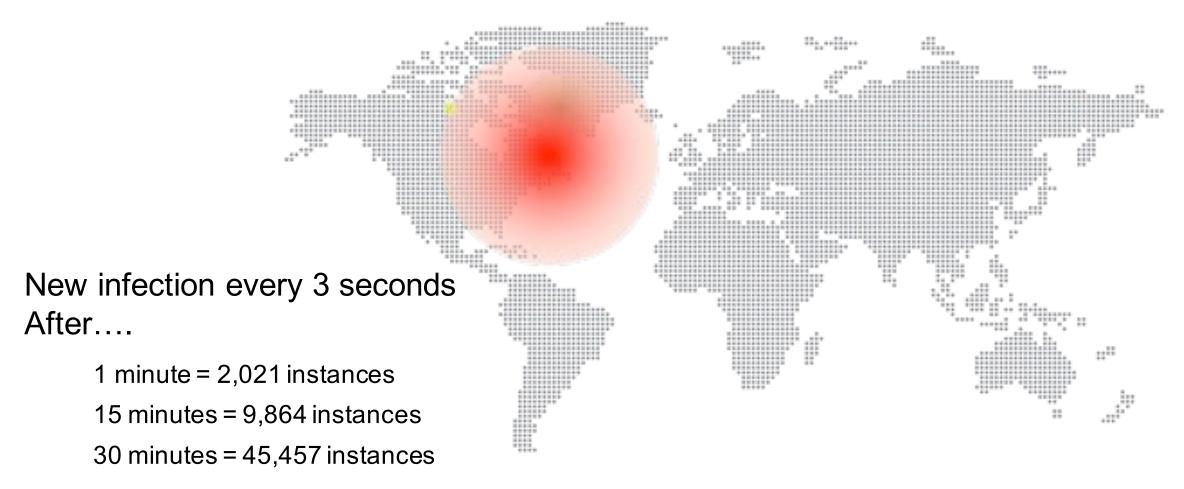
"It is not the strongest of the species, nor the most intelligent, but the one most responsive to change"

The quote that Darwin never said

"It is not the strongest of the species, nor the most intelligent, but the one most responsive to change" **Next Generation Security Platform** Designed from the ground up to counter attacks as they manifest and morph across the endpoint, network and cloud

Stop the spread, prevent attacks

30 Minutes of malware



Prevention first

You think that you are overwhelmed now, can you imagine your

incident response without prevention?

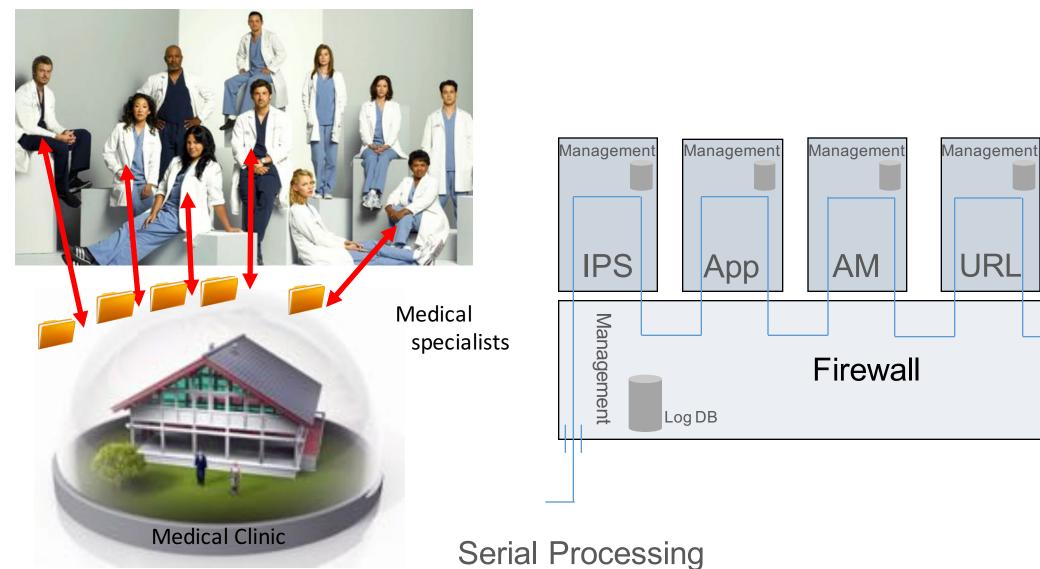
Reduce the attack surface across all locations, traffic, applications and users



Opportunities to prevent attacks – attack

lifecycle susceptible susceptible vaccinated vaccinated **East-West** Some vaccination, Some vaccination. community clusters: equally distributed: Partial herd immunity, Full herd immunity. WF no outbreaks large outbreaks **Data exfiltration Exploit infiltration** Lateral movement WF **Malware download Vulnerability** exploit **Command & control Malware** installation

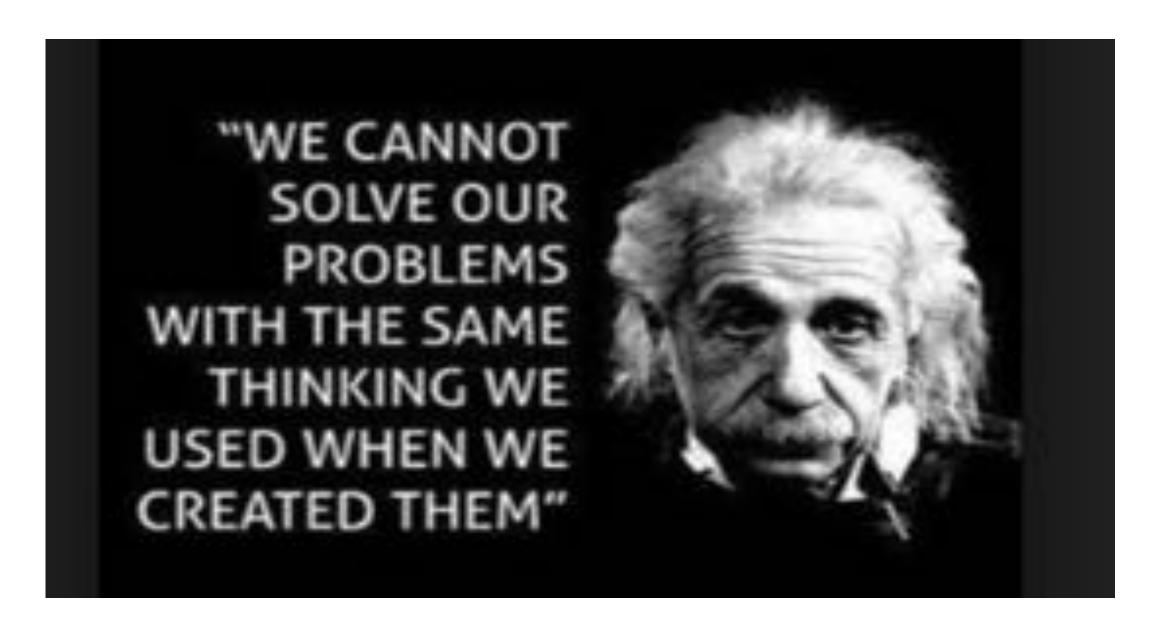
UTM Architecture



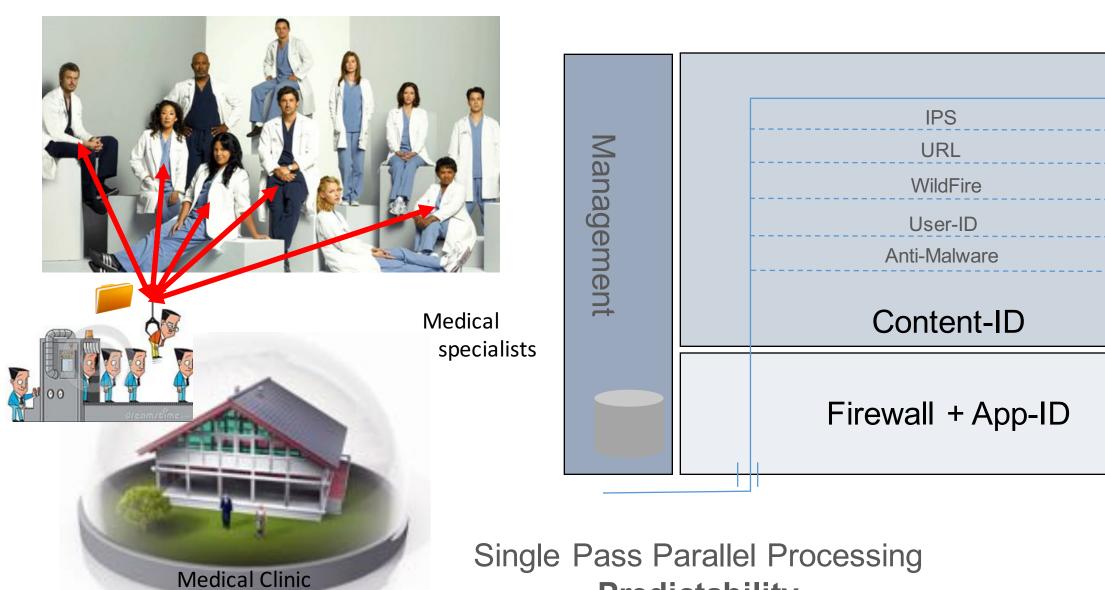
Serial Processing NO Predictability

Management

User



NGFW Architecture



Predictability

Next-Generation Enterprise Security Platform

Automated

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Cloud

Next-Generation Firewall

- Inspects all traffic
- Blocks known threats
- Sends unknown to cloud
- Extensible to mobile & virtual networks

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Next-Generation
Threat Intelligence Cloud

Next-Generation Threat Intelligence Cloud

- Gathers potential threats from network and endpoints
- Analyzes and correlates threat intelligence
- Disseminates threat intelligence to network and endpoints



Palo Alto Networks Next-Generation Firewall

Next-Generation Endpoint Protection

Inspects all processes and files

Network

- Prevents both known & unknown exploits
- Integrates with cloud to prevent known & unknown malware



Palo Alto Networks Next-Generation Endpoint Protection

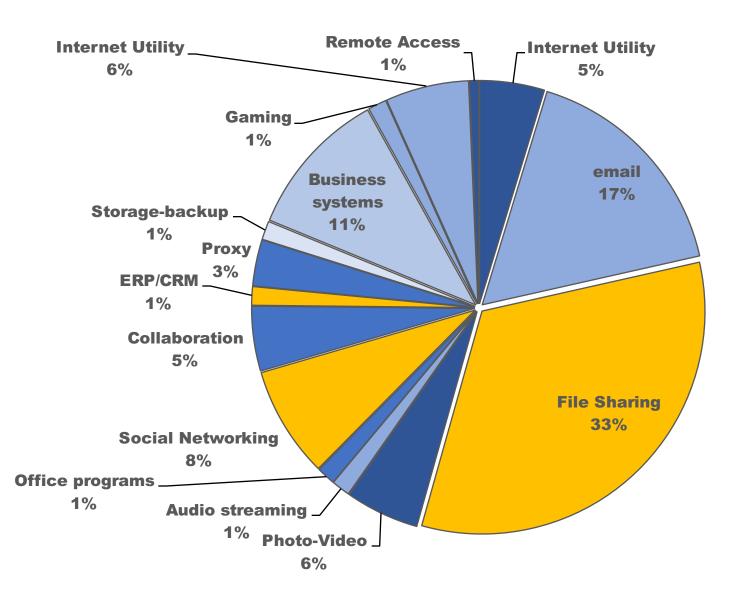
PREVENTION AGAINST UNKNOWN THREATS SIGNATURE Anti-malware signatures **CREATION** DNS intelligence Malware URL database Anti-C2 signatures **SANDBOX TESTING** Soak sites, sinkholes, 3rd party sources **WildFire**[™] Command-and-control Staged malware downloads Host ID and data exfil Global intelligence and protection **SUSPICIOUS** shared with all **TRAFFIC** customers

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Customers

Detect new unknown attacks across all traffic

154 total different application types used in the past year



Detection to prevention

GENERATE SMART PROTECTIONS

- Content-Based vs. Hash-Based Signatures
- Up to **331,000** malware variants have been prevented by **a single signature**.

ON AVERAGE PER WEEK:

- **20 million** samples analyzed
- 200,000+ unique malware identified
- WildFire threat intelligence is sourced from **9,000+ customers** worldwide.

Correlation Engine Who is trying to steal your treasure?

Automated threat correlation engine for identifying malicious patterns of activity

- Looks for confirmed IOCs
- Reduces manual data mining
- Automatically highlights compromised hosts



A Change is needed

Traditionally	The new world
 Limited visibility 	 Full visibility, leveraging the Firewall + User ID, App ID, SSL Decryption
 Another box, built to maintain productivity 	 Key threat prevention component Cloud-based URL categorization database Core technology present on the firewall (Built in-house)
 Solitary functionality, easily bypassed 	 Coordinates protections with all other platform technologies Prevents malicious web sites and phishing pages Continually updated with current threat intelligence Designed for performance and accuracy



MIN DSICONETWORKS®

Failure of legacy security architectures

