

Palo Alto Networks



What's changed? Volume

Attack vectors
Zero days
Sheer volume

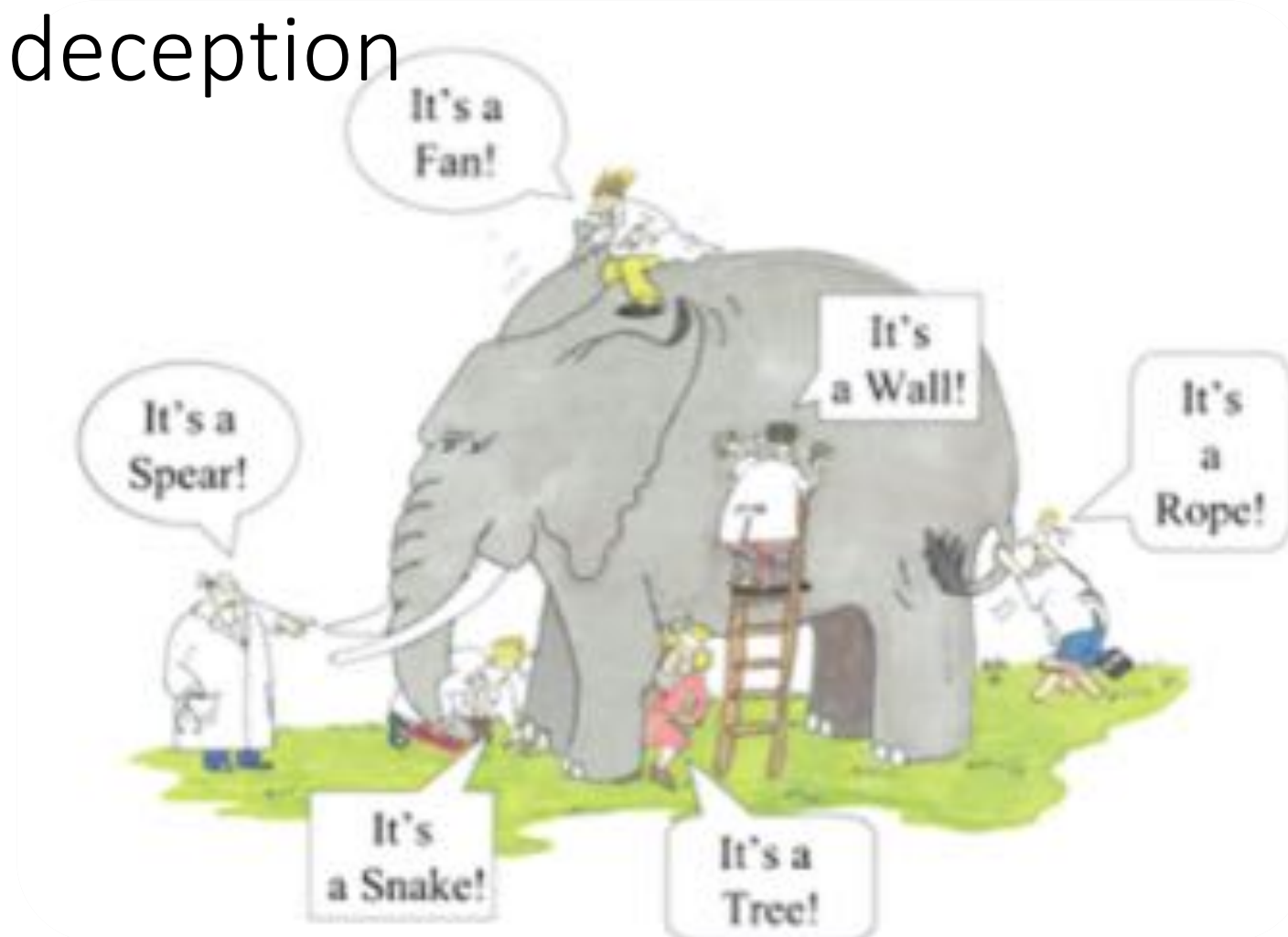


Traditional security design fails to cope with the sheer attack volume and keep pace

What's changed?

Multi-stage attacks and deception

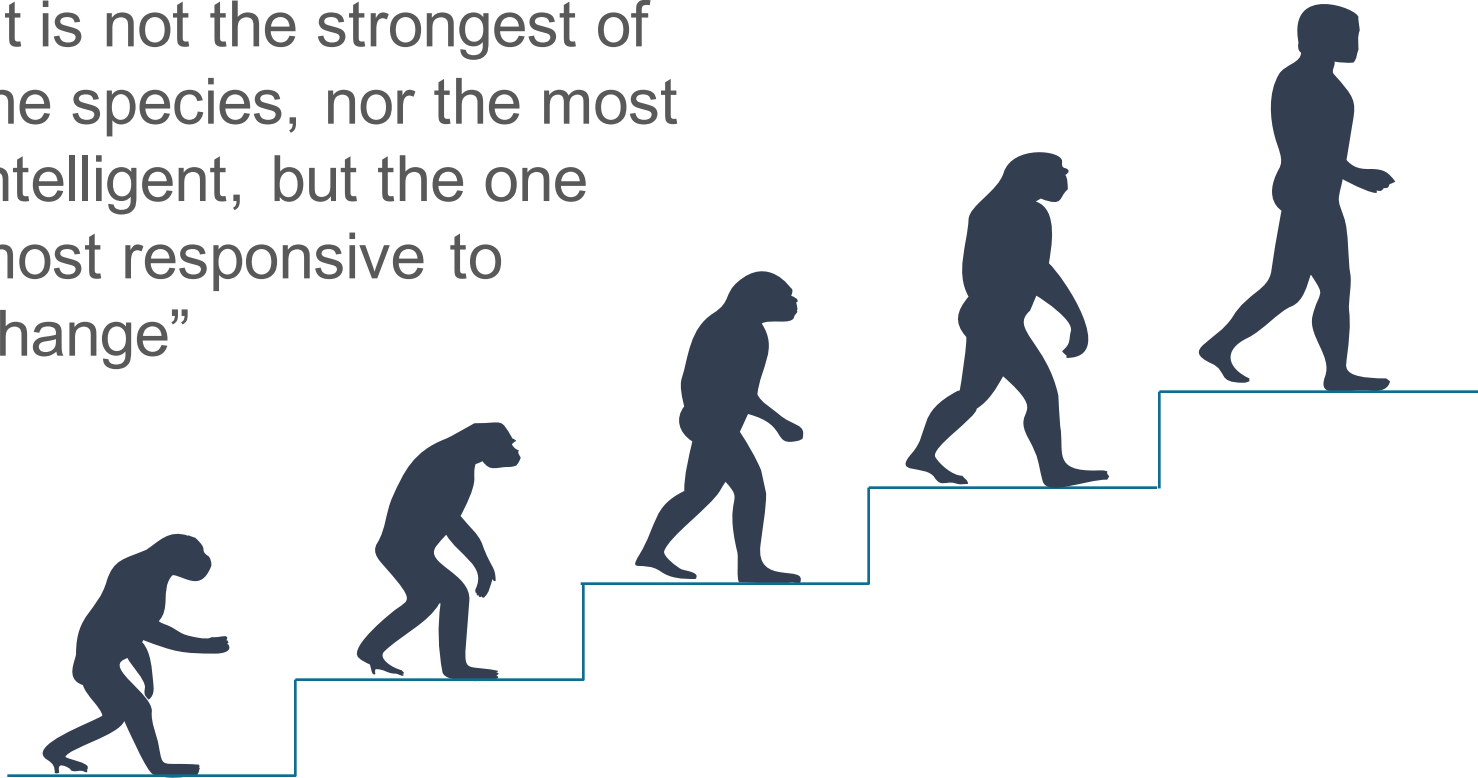
Each man is partly right, though all are in the wrong.



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

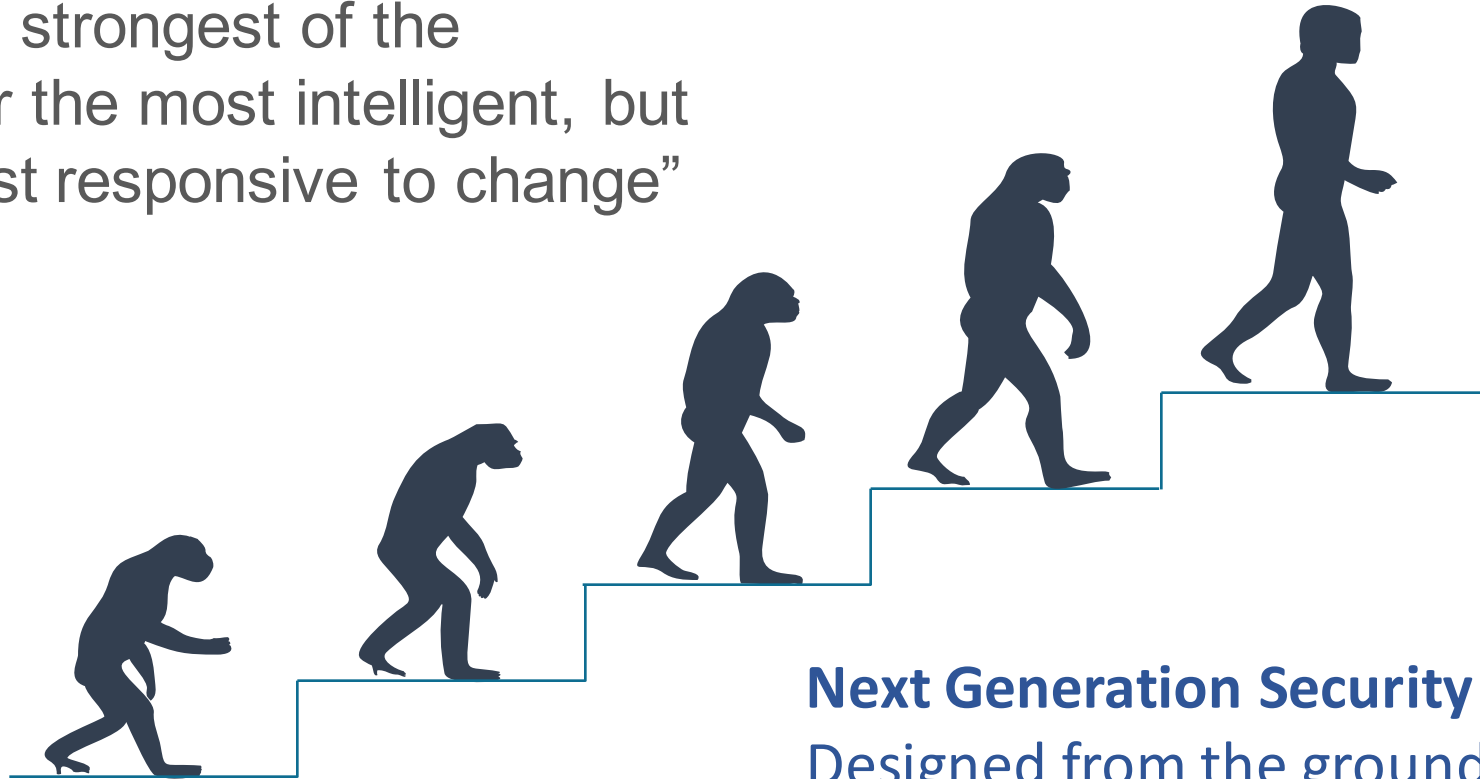
The quote that Darwin never said

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



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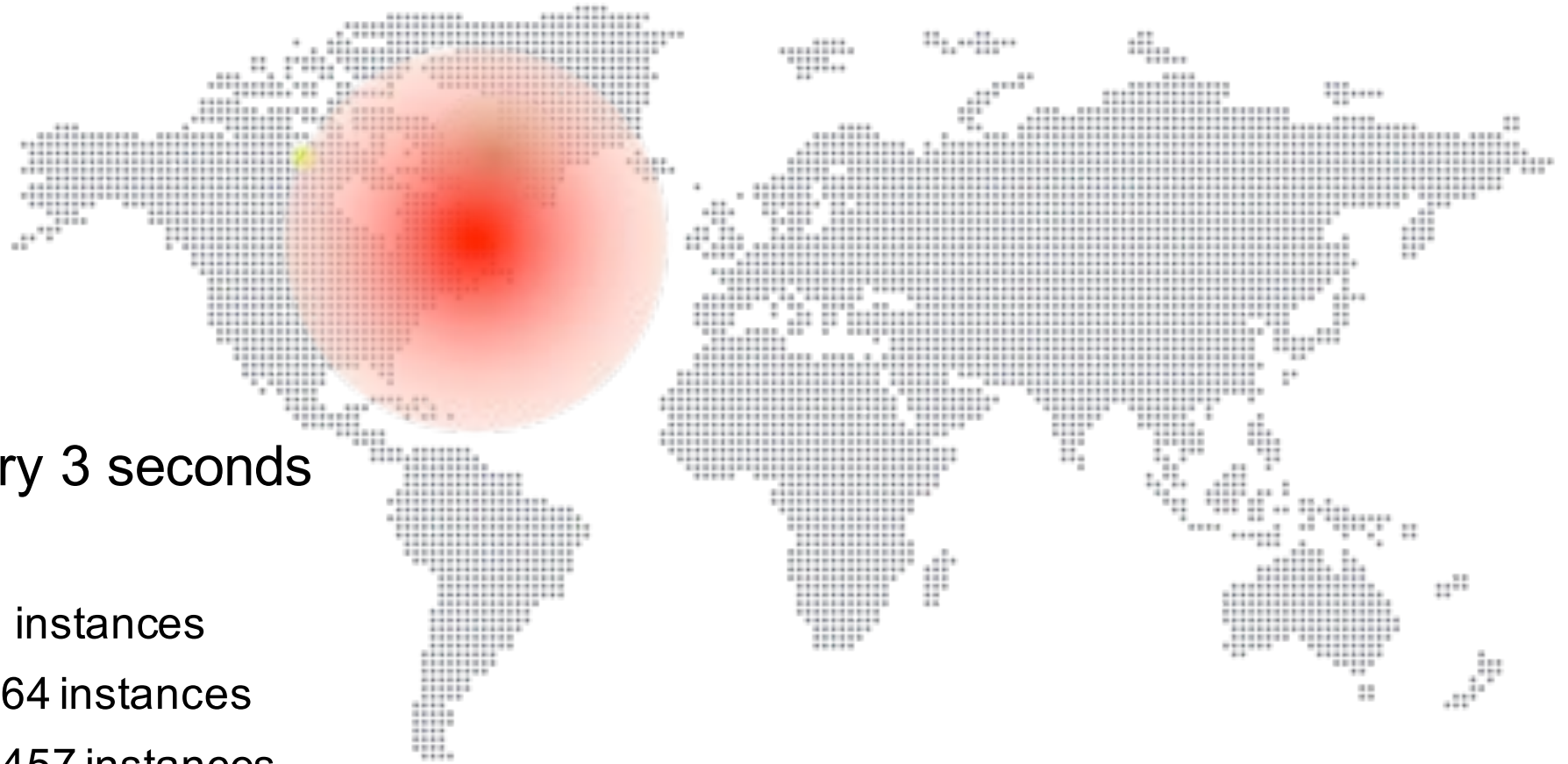


Next Generation Security Platform

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



New infection every 3 seconds

After....

1 minute = 2,021 instances

15 minutes = 9,864 instances

30 minutes = 45,457 instances

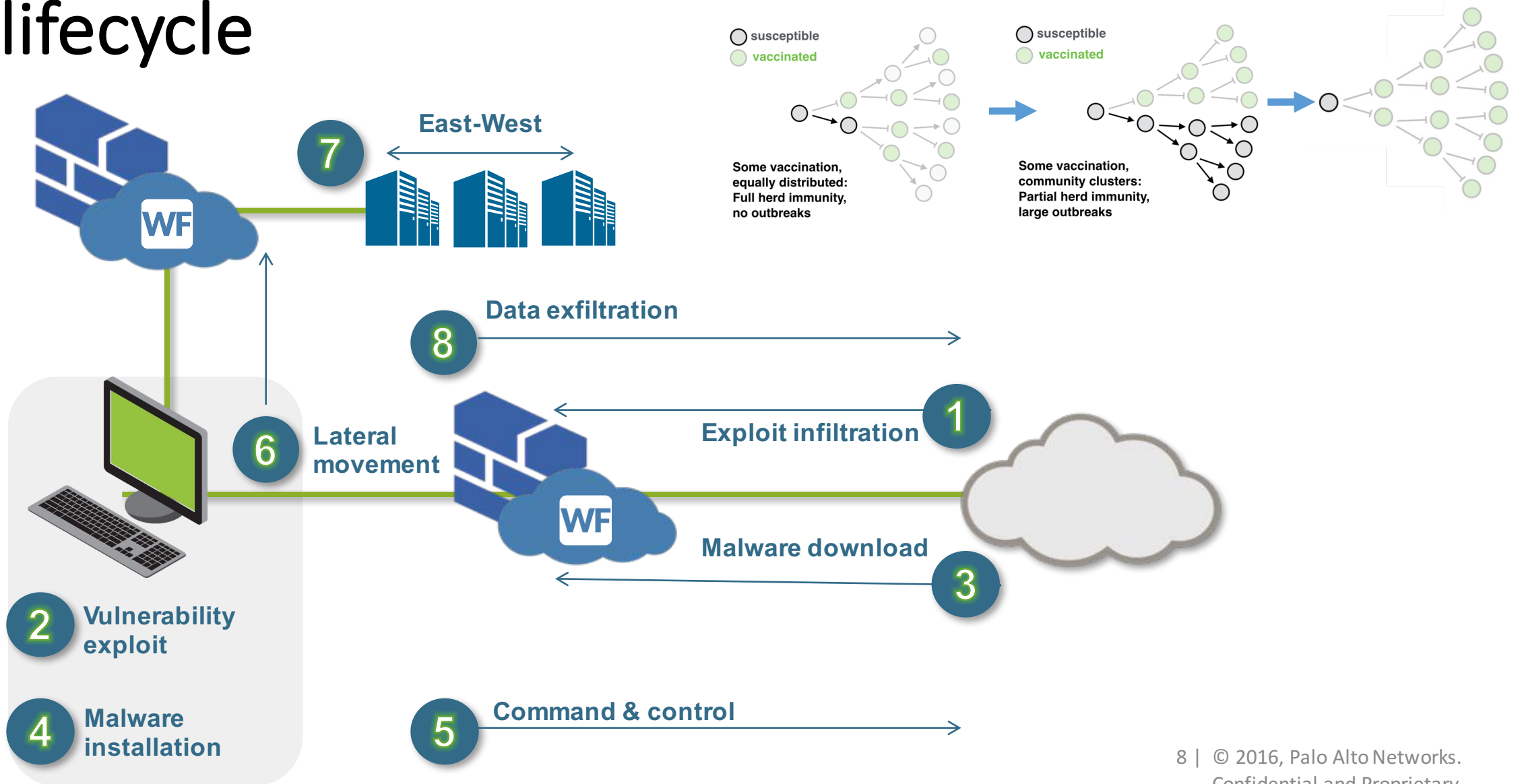
Prevention first

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

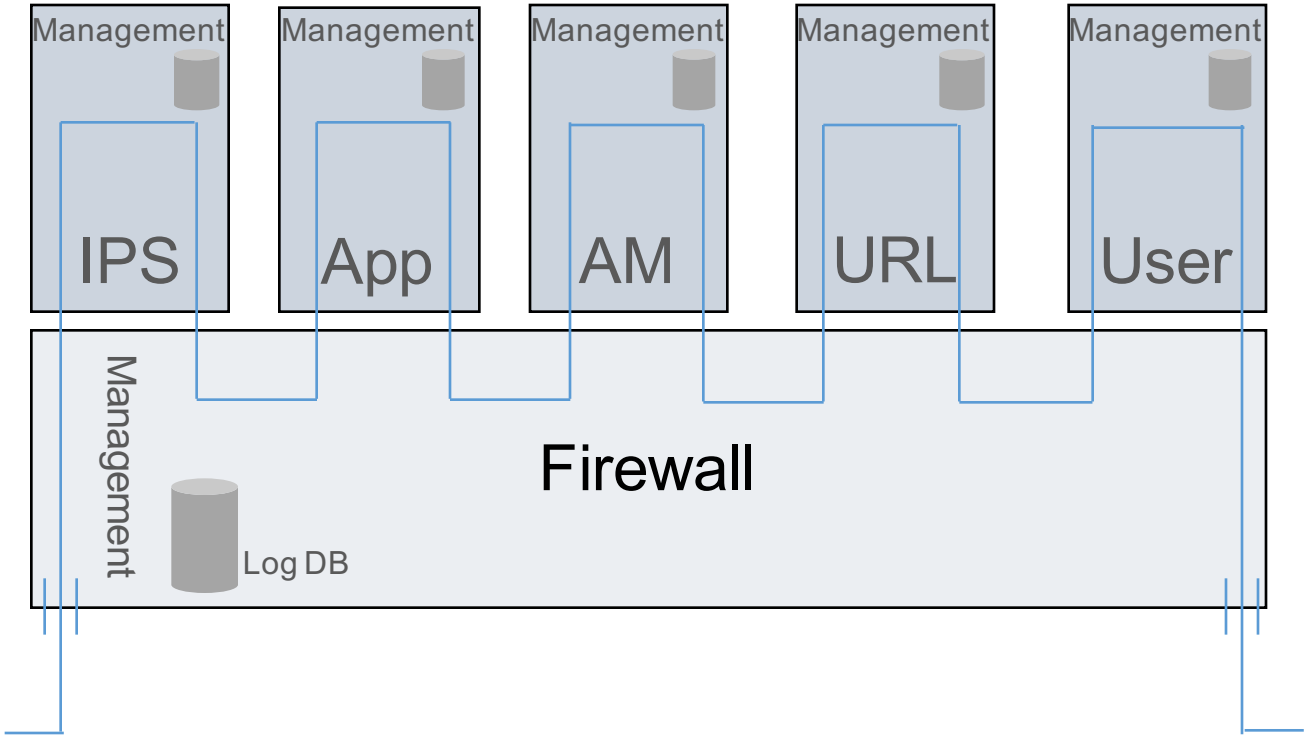


UTM Architecture



Medical specialists

Medical Clinic

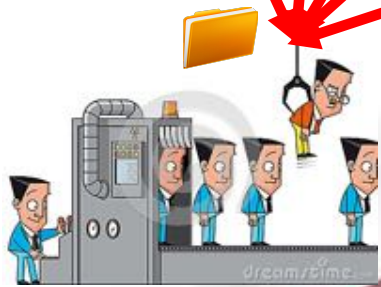


Serial Processing
NO Predictability

“WE CANNOT
SOLVE OUR
PROBLEMS
WITH THE SAME
THINKING WE
USED WHEN WE
CREATED THEM”



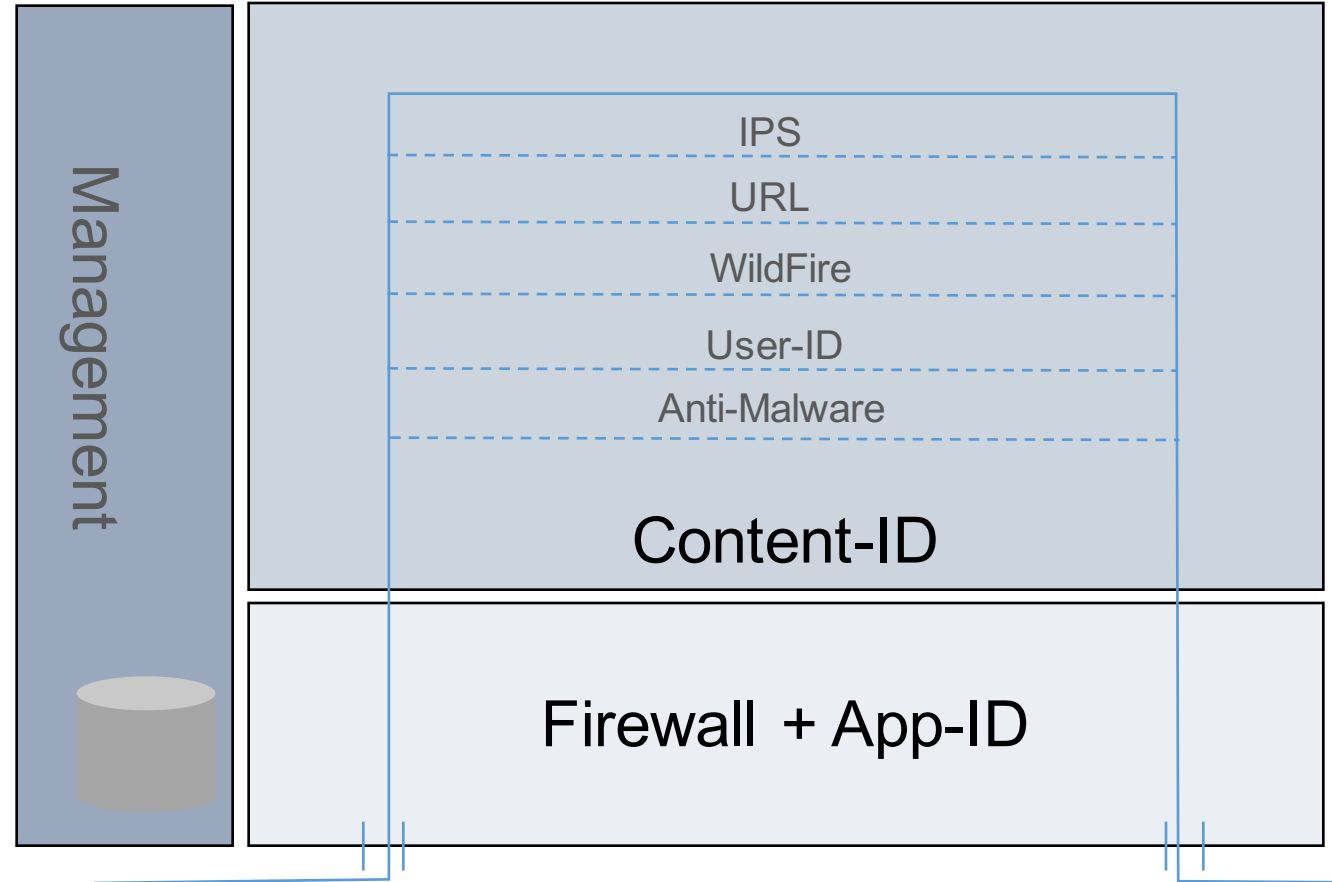
NGFW Architecture



Medical specialists

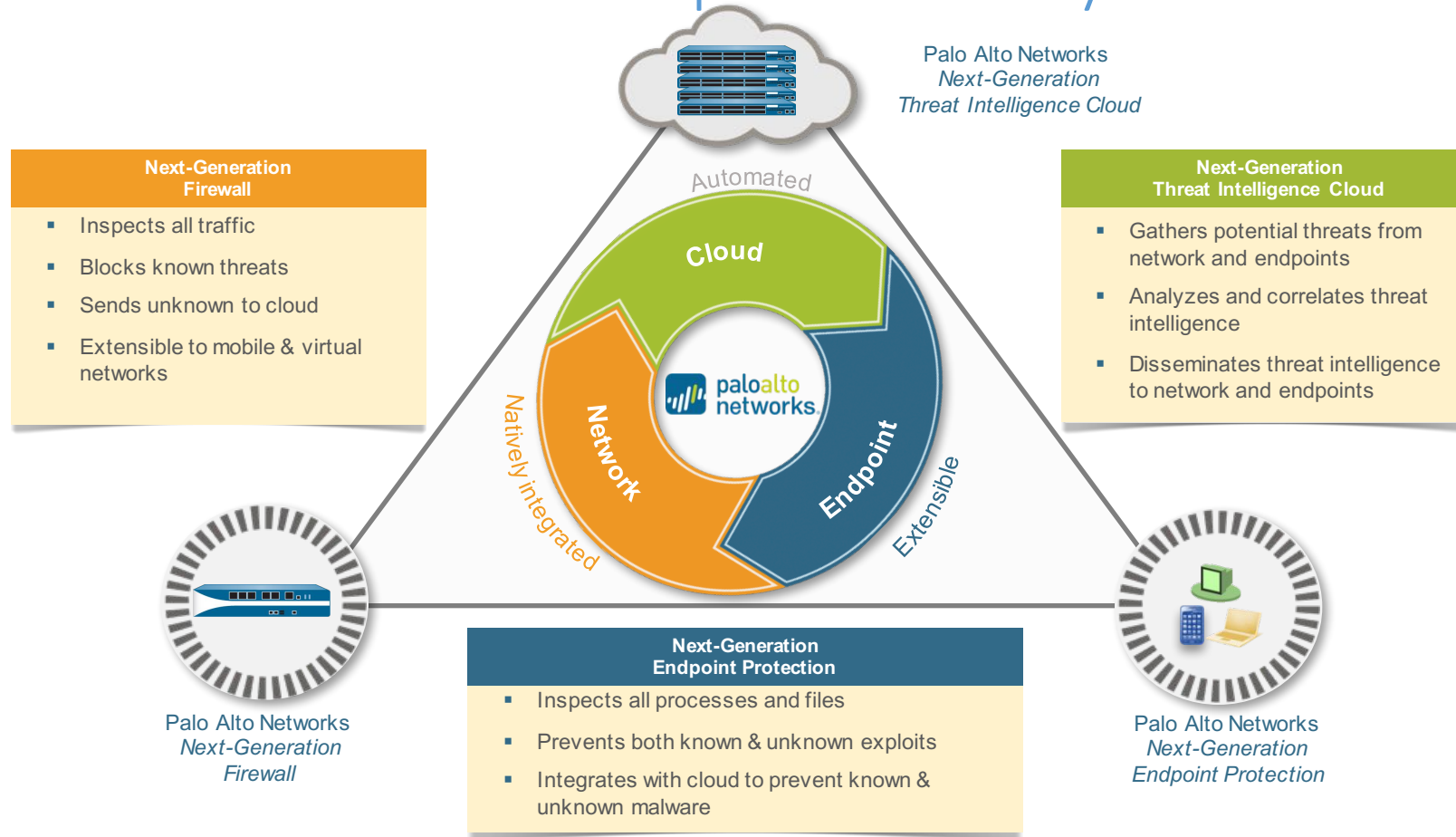


Medical Clinic

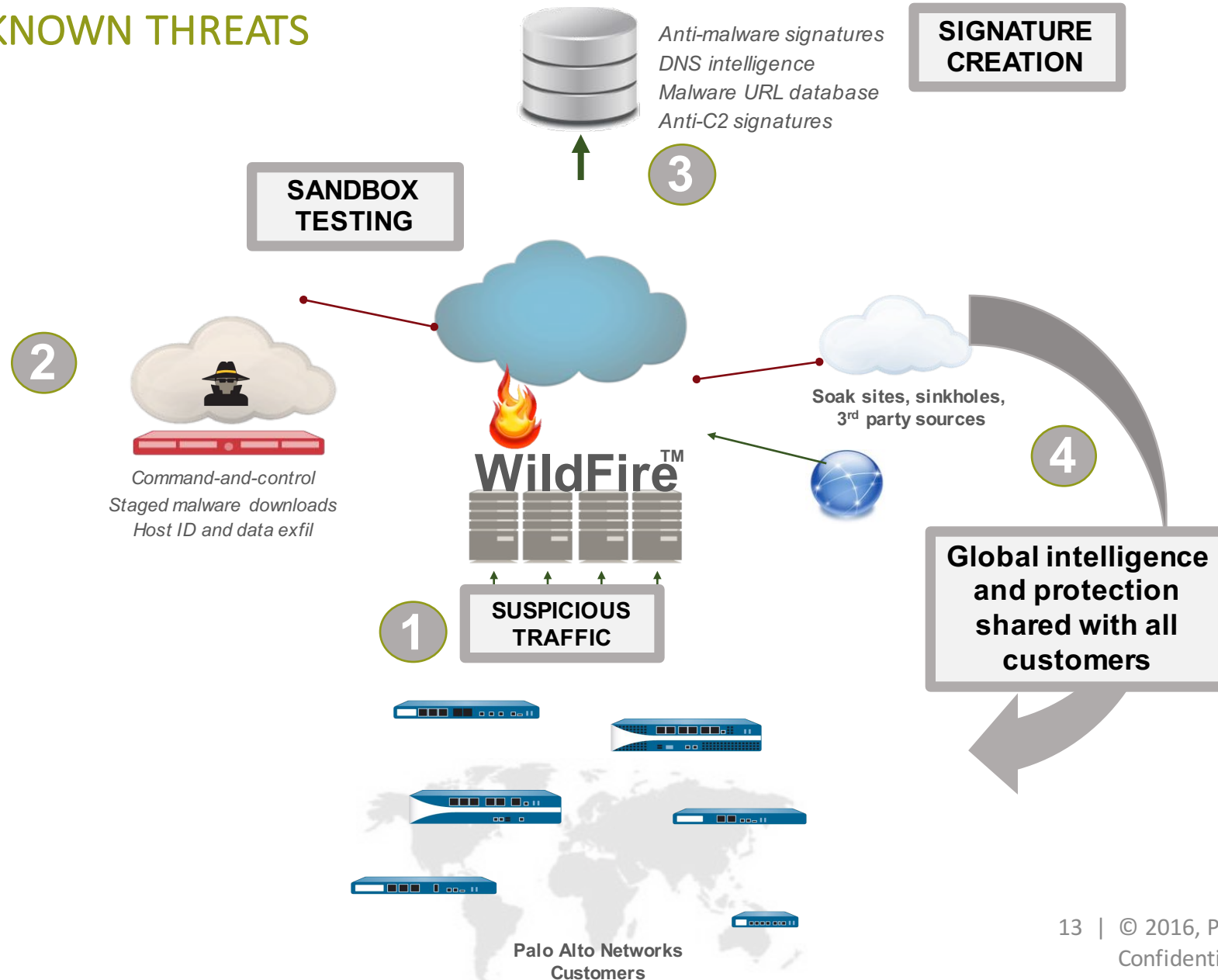


Single Pass Parallel Processing
Predictability

Next-Generation Enterprise Security Platform

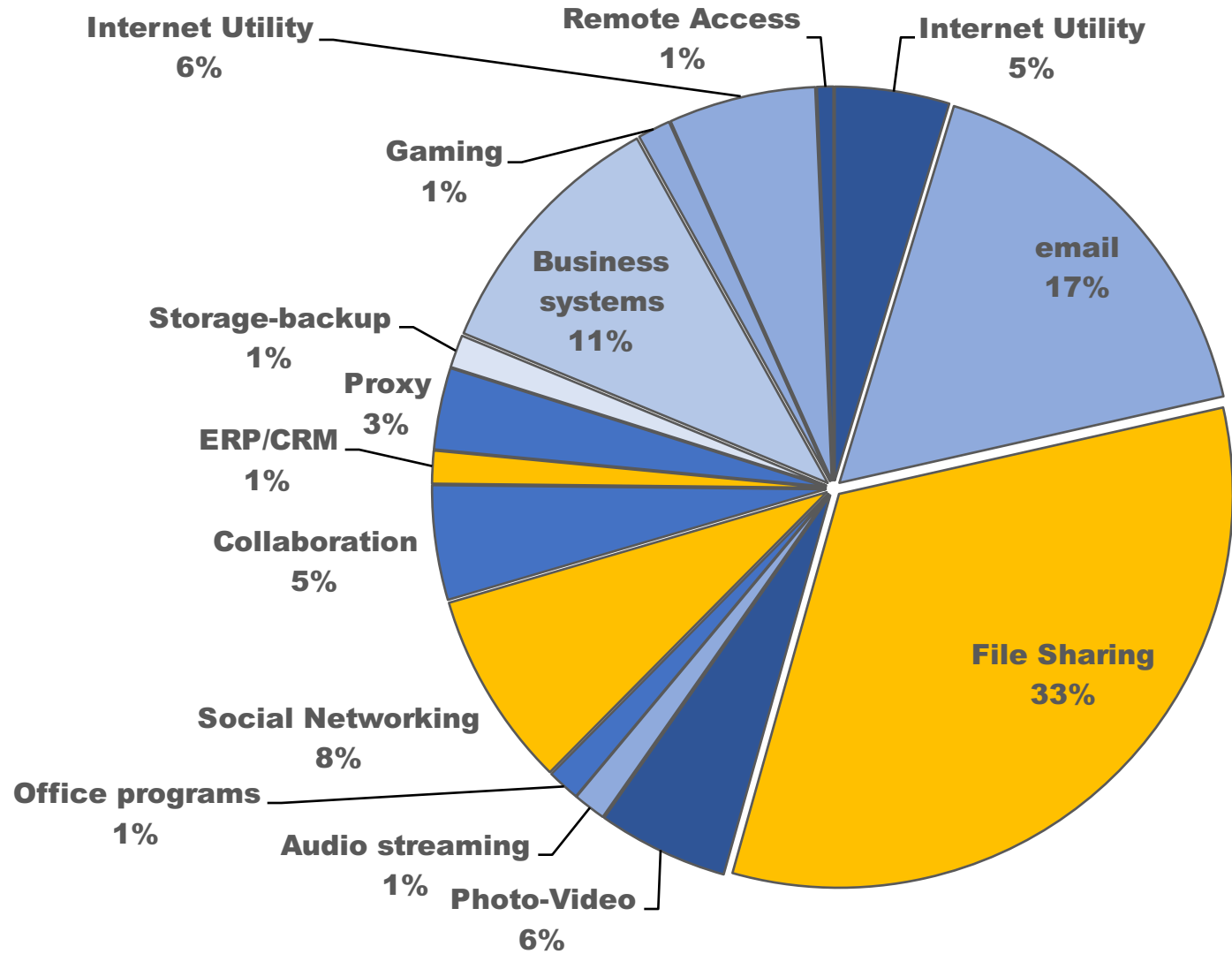


PREVENTION AGAINST UNKNOWN THREATS



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
<ul style="list-style-type: none">• Limited visibility	<ul style="list-style-type: none">• Full visibility, leveraging the Firewall + User ID, App ID, SSL Decryption
<ul style="list-style-type: none">• Another box, built to maintain productivity	<ul style="list-style-type: none">• Key threat prevention component• Cloud-based URL categorization database• Core technology present on the firewall (Built in-house)
<ul style="list-style-type: none">• Solitary functionality, easily bypassed	<ul style="list-style-type: none">• 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



Failure of legacy security architectures

