Machine Learning:

- A cybersecurity FRIEND to beat the bad guys -

Fred Streefland
Cyber Security Strategist EMEA



- Introduction
 - Speaker
 - Palo Alto Networks
 - Al or Machine Learning?
- The challenges of today's world
- Machine Learning in Cyber Security (Palo Alto Networks' approach)



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INTRODUCTION (PALO ALTO NETWORKS)

85 of Fortune 100 rely on Palo Alto Networks 63% of the Global 2K are Palo Alto Networks customers

European presence

Europe, Middle East and Africa (EMEA) headquarters in Amsterdam, since 2013.



48,000+

customers in 150+ countries

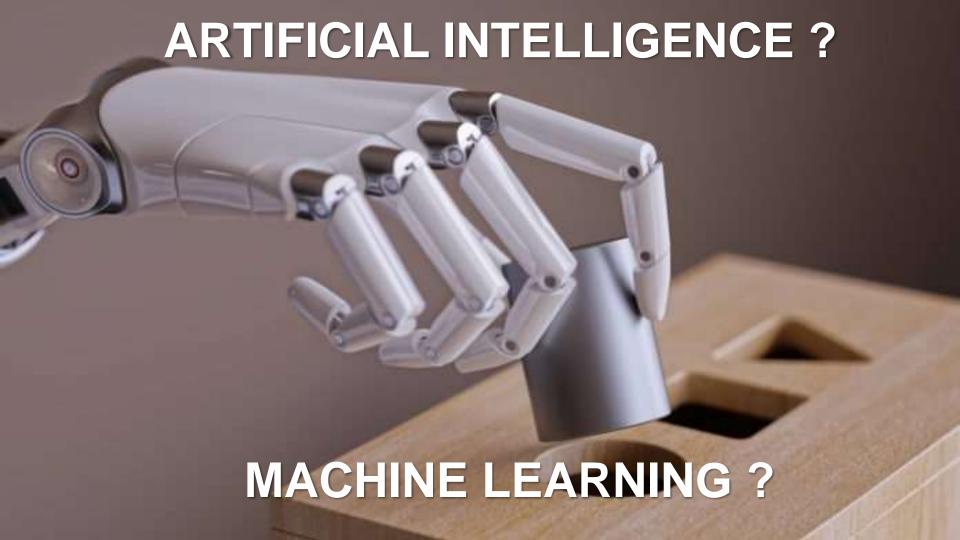


Automated protection delivered in as little as 5 minutes

Nearly 70 Palo Alto Networks
Academy Program partners and
education institutions in more than
18 EU Member States







<u>Artificial Intelligence</u>: software that becomes aware of its own existence and can make thoughtful decisions.

Rick Howard, CSO Palo Alto Networks

Machine Learning: a software-development technique used to teach a computer to do a task without explicitly telling the computer how to do it.

Sam Debrule, co-founder of the Voice of Machine Learning journal



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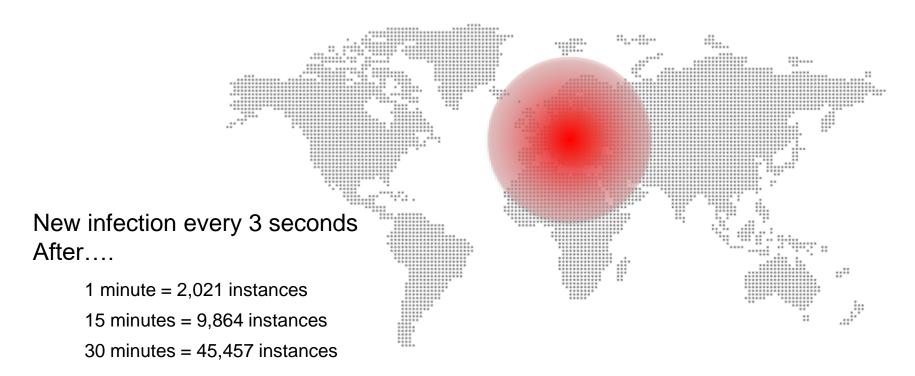


DIVERSE, EVOLVING AND

SOPHISTICATED THREAT



SOPHISTICATED MALWARE SPREADING





HIGHLY AUTOMATED ADVERSARIES



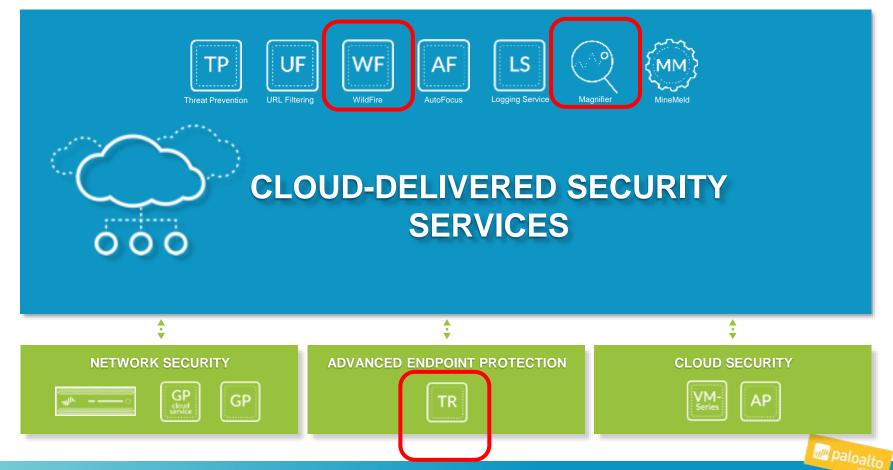
CHANGE CYBER SECURITY



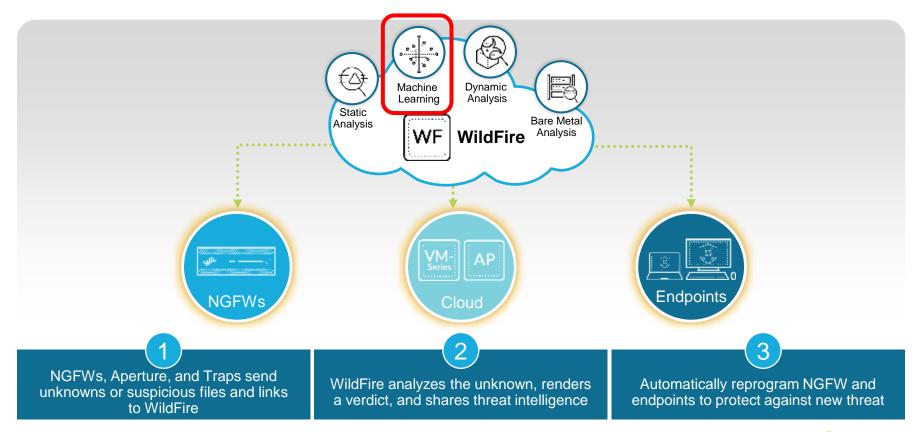
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SECURITY OPERATING PLATFORM

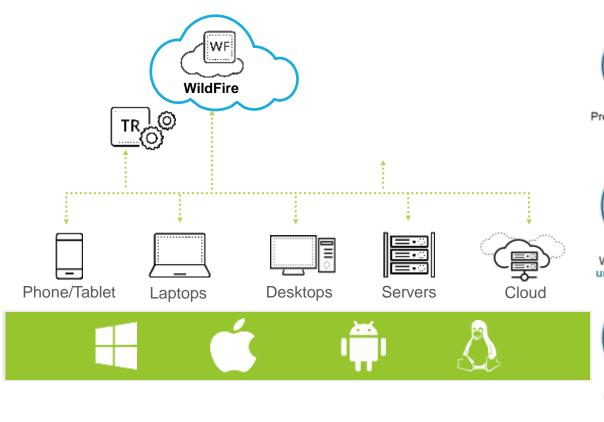


WILDFIRE





TRAPS





Prevent all known malware



Machine learning to prevent new malware



Behavior-based ransomware prevention



WildFire to detect unknown malware



Reconnaissance Prevention



Memory Corruption Prevention



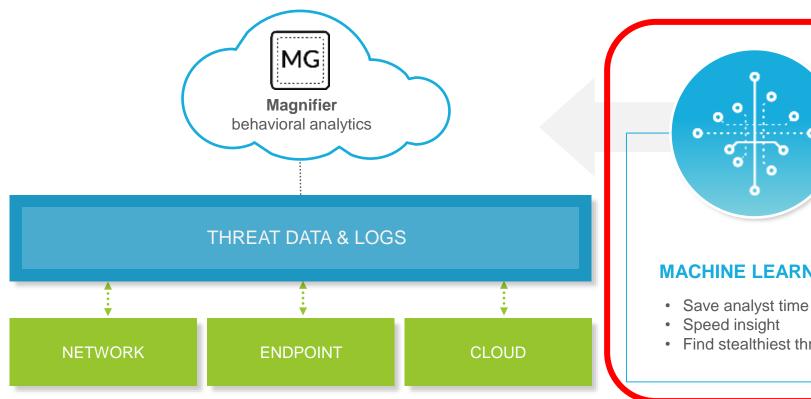
Code Execution Prevention

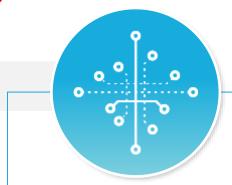


Kernel Protection



MAGNIFIER





MACHINE LEARNING

- Find stealthiest threats





Thank you for the attention!

