

ntopConf Italia 2019

- Padova, Maggio 2019



Chi Sono:

Luca Pesce Aka
«Fish» , 48 anni,
sposato, con un
figlio meraviglioso
di «101» anni .

Appassionato di
cinema, sicurezza
informatica, birra, e
*technology
enthusiast.*

Lavoro nel mondo
dell' IT da 25 anni;
in Sonicwall da 7.

Primo calcolatore :
Commodore 64 .

Alcune certificazioni
: Cisco CCNA - CSSP
- CST - CSSA -
SMaC . In arrivo CEH
e CISSP .

In SonicWall ricopro
il ruolo di Sales
Engineer II per il
Nord Italia



With 27 years of experience,
SonicWall is recognized as the
Network Security leader
in the Cyber Arms race.

SonicWall Leadership...



18,000+

global channel partners

1 million+

networks protected



215+

countries & territories

~500,000

organizations



290+

patents

3 million+

firewalls shipped

Business Update

- Had the highest government quarter in our history
- New records across the business:
 - **92%** customer renewal rate
 - **54** new products and **~162 million** lines of code
 - **58%** of technical support cases resolve in first business day
 - **15:1** self-service score in 2018 (best in class)
 - **51** awards accumulated since February 2018
- Launched new Capture Cloud Platform and Capture Security Center

“Bill, just to let you know that Anonymous Italy declared an attack to various public administrations including Pisa University until Nov 5 2018. We resisted the attacks mainly on our mail thanks to the email security solution we recently deployed. We had peaks of 600,000 connections/day with only 100,000 legitimate and the system resisted under pressure. We are impressed by the system performance, in the month of October we received 12million connections and just over 2million were delivered as legitimate.”

Antonio Cisternino – CIO University of Pisa, Italy

“As a Platinum SonicWall partner we have recently rolled out TZ 400 firewalls for one of our larger Enterprise Customers to over 2,500 locations across Germany and Austria to enable secure communications between retail kiosks and headquarters. The installation went extremely smoothly and the solution delivers exactly what our client required. During this Enterprise rollout we had no issues with the selected products, demonstrating the quality of the SonicWall Security Platform.

With this installation SonicWall has proven again to be the premier provider of high-class security solutions at an excellent price point.

At Axsos we are proud to continue and intensify our relationship with SonicWall in the future.”

Peter Klien

Senior Account Manager IT-Security, AXSOS AG

SonicWall Security Center: Did You Know?



WORLDWIDE ATTACKS

In 2018, the average SonicWall customer faced:

- ~25,000 malware attacks (+22% over 2017)
- 490 ransomware attacks (+11%)
- 19% of malware using non-standard ports (+9%)
- 9.3 million intrusion attempts (+38%)
- 1,276 encrypted threats (+27%)
- 105K web app attacks (+79%)
- 5,488 phishing attacks
- 392K new attack variants (1,074/day) detected by Capture ATP
- 74K+ never-before-seen attack variants identified by RTDMI

In Jan-Feb 2019, the average SonicWall customer faced:

- 3,602 malware attacks (-26% over Jan-Feb 2018)
- 59 ransomware attacks (-25%)
- 12.6% of malware using non-standard ports (-26%)
- 1.6 million intrusion attempts (+11%)
- 368 encrypted threats (+20%)
- 15K web app attacks (-57%)
- 738 phishing attacks (+14%)
- 69.8K new attack variants (1,182/day) detected by Capture ATP (+97%)
- 89K+ never-before-seen attack variants identified by RTDMI

TOP 3 ATTACK ORIGINS	TOP 3 ATTACK TARGETS	TOP ATTACK TYPES	TOP 3 ATTACKER IP ADDRESS	ATTACK SITE STATISTICS ON AUG 27
14.2M France	10.6M United States	27.9M Intrusion	5.54M 185.40.**	1,828 > 100 Attacks/Site
5.76M Russia	8.19M United Kingdom	5.64M Malware	3.42M 212.129.**	1,488 > 50 < 100 Attacks/Site
1.28M United States	3.16M Brazil		2.33M 195.154.**	11.0K < 50 Attacks/Site

Our Vision: Automated Real-time Breach Detection and Prevention

ADVANCED THREATS



Ransomware
Fileless Malware
Encrypted Malware
Cryptojacking
Malvertising
Phishing

THE CHALLENGE



Any Vehicle
Email, Browser, Apps, Files
Any Traffic
Encrypted, Unencrypted
Any Network
Wired, Wireless, Mobile, Cloud
Any Device
PC, Tablet, Phone, IoT

CRITICAL COMPONENTS



Inspect all SSL/encrypted traffic
Machine learning
Multi-engine, CPU-tracking cloud sandbox
Block files until a verdict is rendered
Integrated security platform (firewall, endpoint, wireless, email, CASB, Wi-Fi)
Security center (SOC)

SonicWall Capture Labs

**Established
in mid-90's**

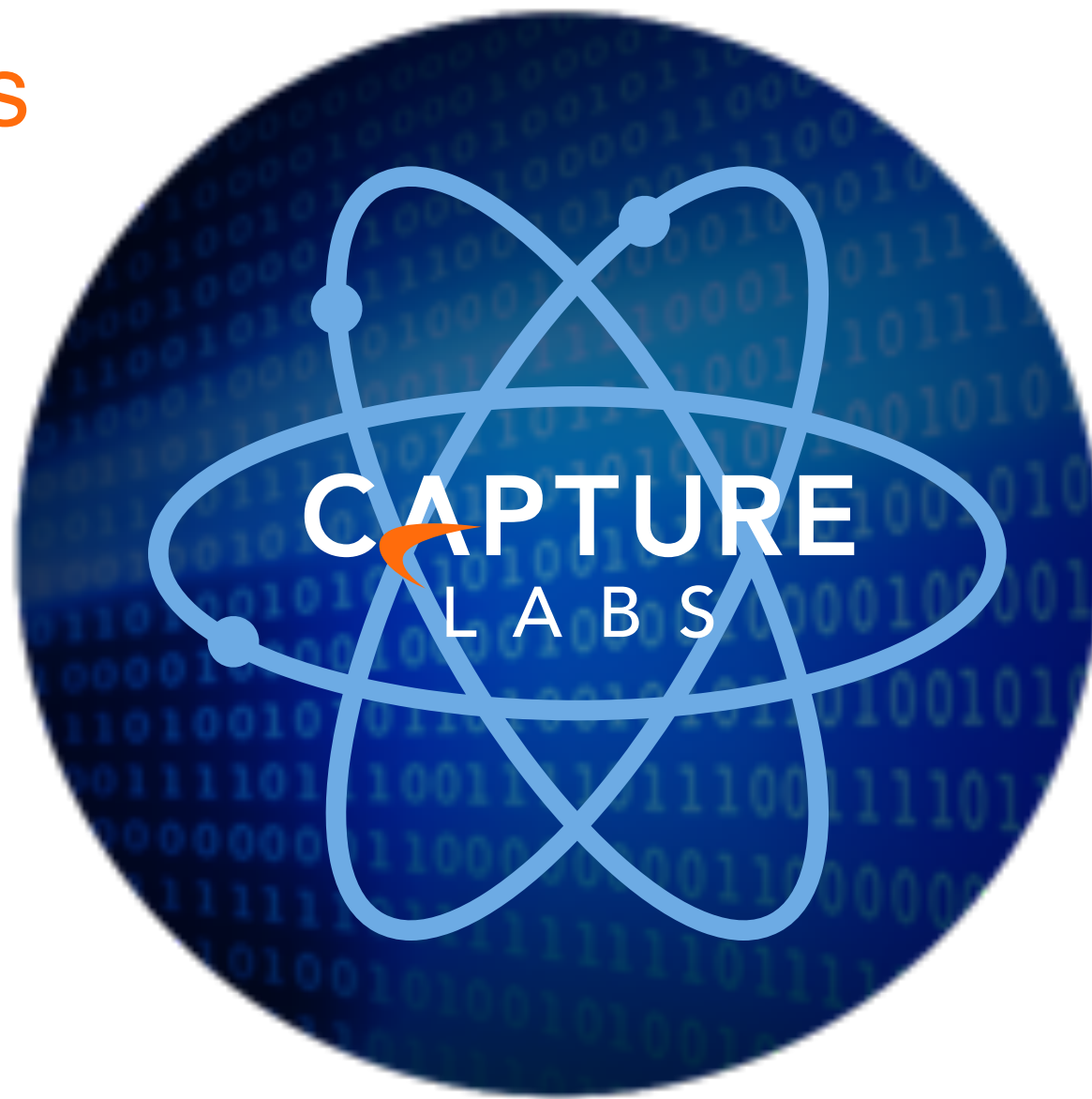
Dedicated
World-class threat and
machine learning
engineering team

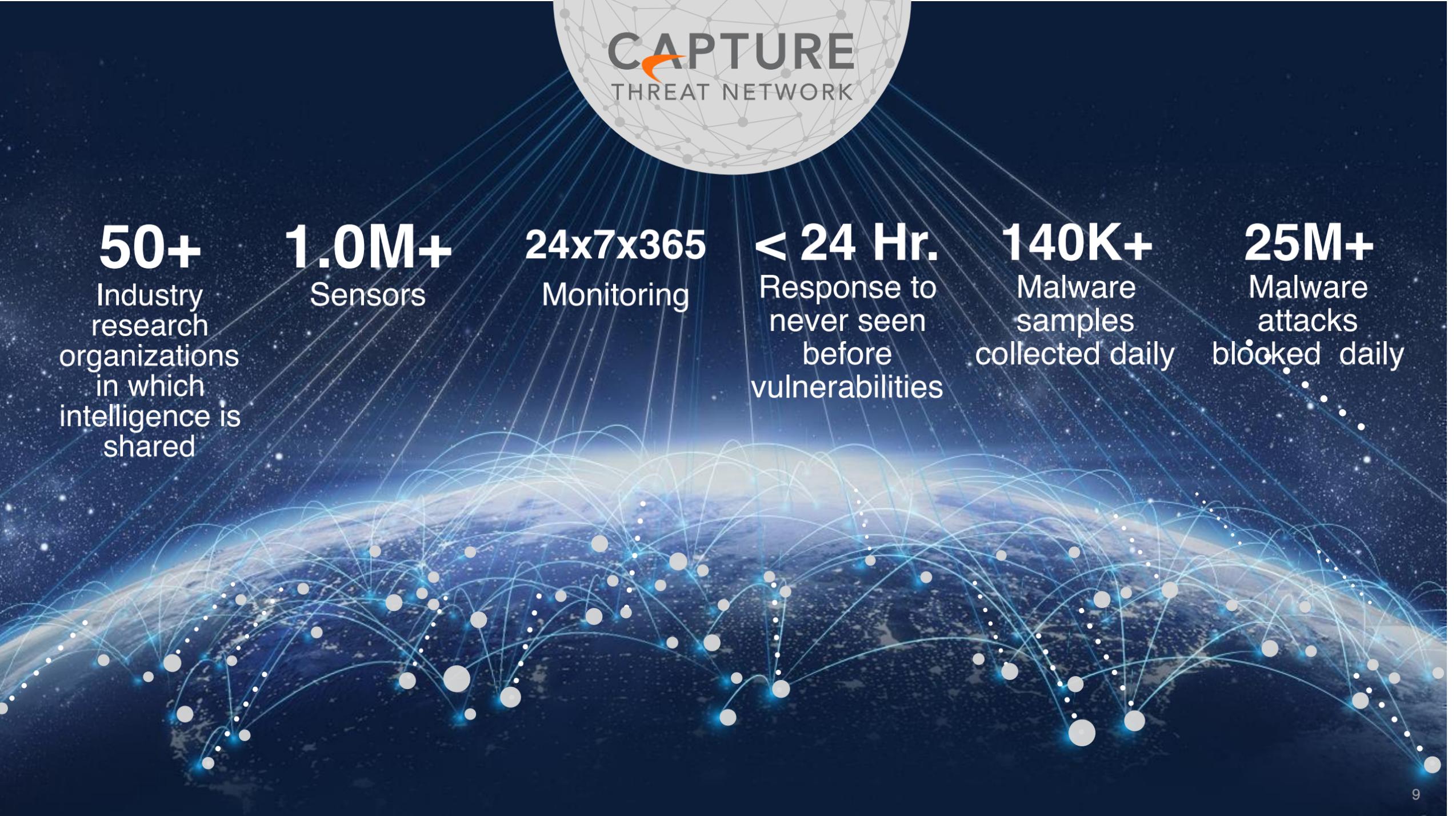
Analyzed
12 billion malware attacks
from January 2018
February 2019

Credited
Discovery of hundreds
of unique variants
every day

Identified
164k+ never before
seen threats from Jan.
2018-Feb. 2019

**Extensive
Malware Library**
Hundreds of terabytes of
data/artifacts





CAPTURE
THREAT NETWORK

50+

Industry
research
organizations
in which
intelligence is
shared

1.0M+

Sensors

24x7x365

Monitoring

< 24 Hr.

Response to
never seen
before
vulnerabilities

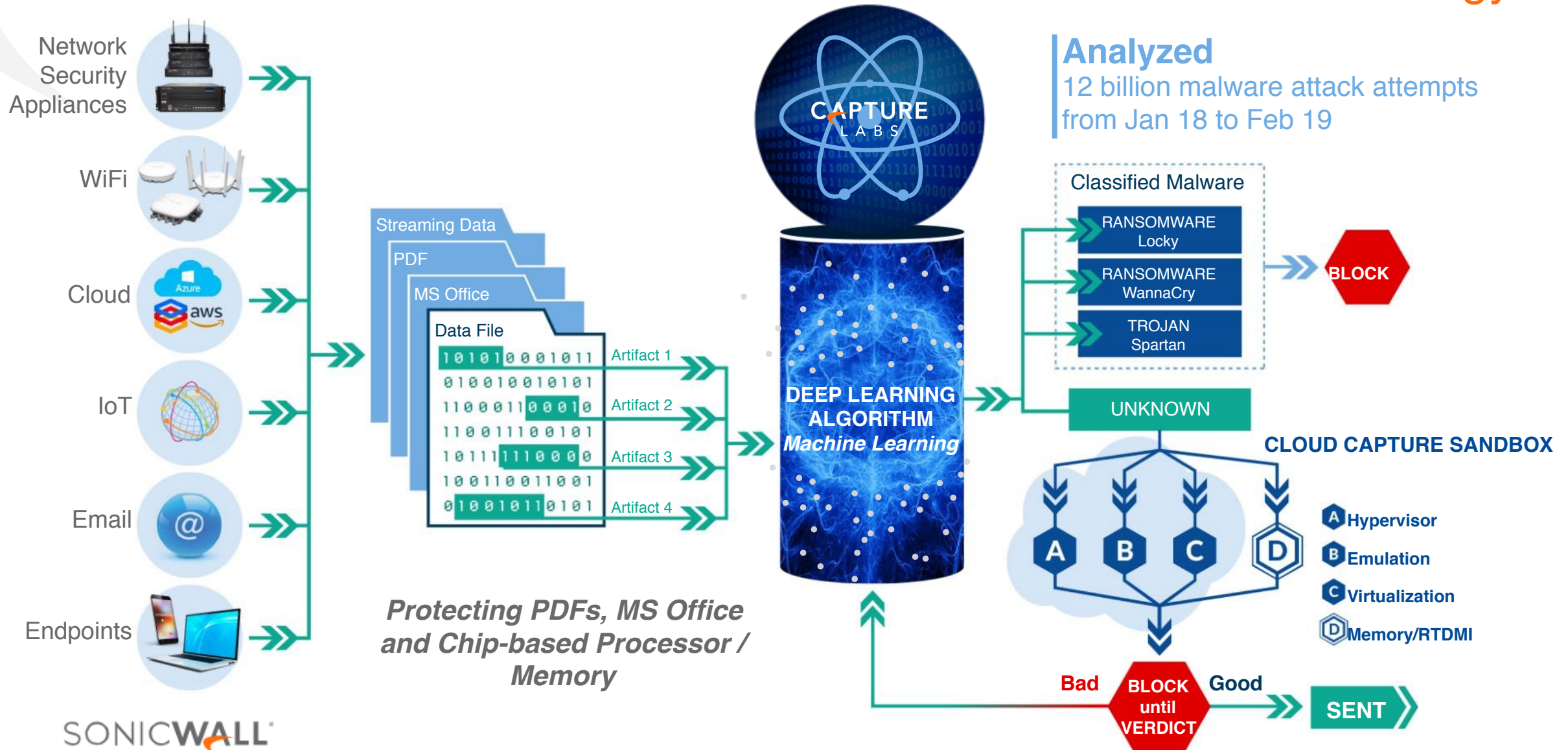
140K+

Malware
samples
collected daily

25M+

Malware
attacks
blocked daily

Automated Real-Time Breach Detection and Prevention Technology



SonicWALL e
NTOP :
declinare la
security ed il
monitoring con
proattività



Network Probe



Traffic Analysis

Due modalità di implementazione per ottenere il massimo della visibilità del traffico

- Native:

Utilizzando la funzionalità di packet monitoring presente su tutti i nostri firewall, si ottiene nativamente, in pochi secondi, la visibilità completa di tutti i flussi che attraversano il firewall ottenendo un dettaglio degli stessi prossimo all'analisi forense dei dati.

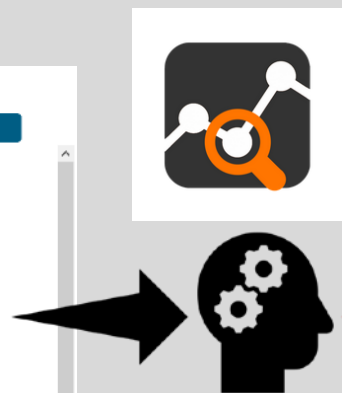
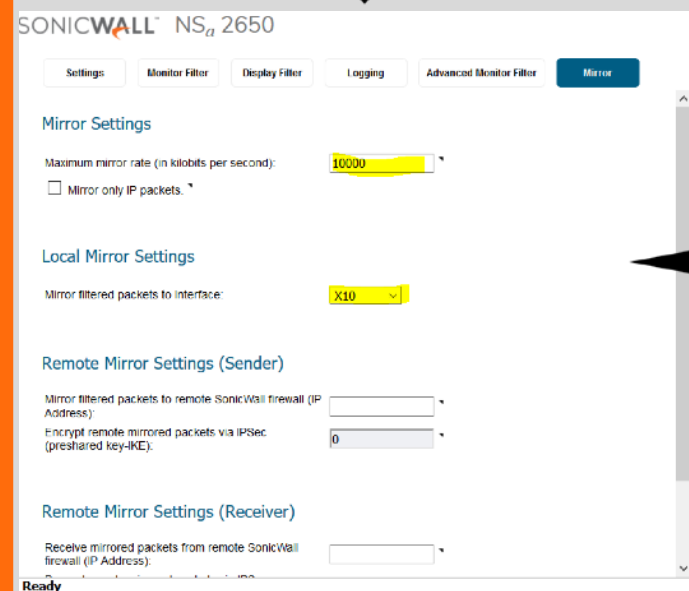
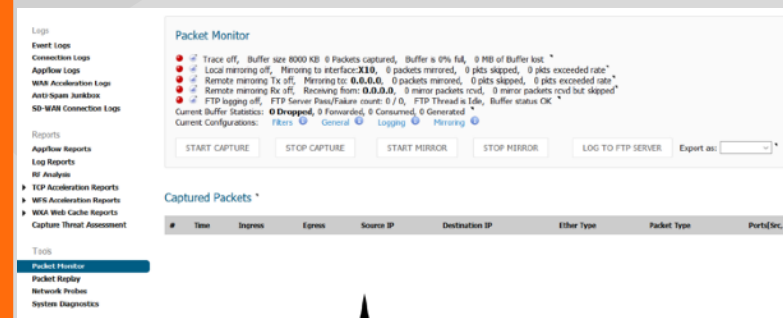


- Flow forwarding:

I nostri firewall permettono, con pochissimo tempo di configurazione, la possibilità di inviare i flussi che lo attraversano ad un collettore esterno tramite lo standard IPFIX with extension. Utilizzando Nprobe come collettore si può accedere immediatamente alla visualizzazione dei dati desiderati.



Native Mode



Flow: VMRF65ZKJ2:53848 ⇄ 172.17.4.5:3389		Overview
Flow Peers [Client / Server]		VMRF65ZKJ2:53848 [10.7D:1A:2B:D3:84] ⇄ 172.17.4.5:3389 [18:B1:69:B3:5A:94]
Protocol / Application		TCP / RDP (RemoteAccess) 🔗
First / Last Seen		03/05/2019 12:02:30 [02:36:40 ago] 03/05/2019 14:39:10 [< 1 sec ago]
Total Traffic		Total: 6.39 MB ↑
		Goodput: 3.30 MB (51.6 %) ↑
Client → Server: 33,995 Pkts / 4.06 MB ↑		Client ← Server: 23,600 Pkts / 2.33 MB ↑
Round-Trip Time Breakdown		1513.003 ms (server)
Client/Server Estimated Distance		303,922 Km 188,562 Miles
Application Latency		32.921 ms
Packet Inter-Arrival Time [Min / Avg / Max]		Client → Server: < 1 ms / 280 ms / 00:06 Client ← Server: < 1 ms / 403 ms / 00:06
TCP Packet Analysis		Client → Server / Client ← Server
Retransmissions		1 Pkts / 2 Pkts
Out of Order		8 Pkts / 23 Pkts
Lost		2 Pkts / 1 Pkts
Max (Estimated) TCP Throughput		Client → Server: 336.24 kbit/s Client ← Server: 1.34 kbit/s
TCP Flags		Client → Server: SYN PUSH ACK Client ← Server: SYN PUSH ACK
Flow is active.		



A large, vibrant orange watercolor splash or ink blot serves as the background for the text. It has irregular, feathered edges and some darker, more saturated areas within the main shape. The text "Thank You!" is centered within this splash in a clean, white, sans-serif font.

Thank You!