



What's next?

Neuigkeiten in Palo Alto Networks Strata

Christian Kurta | System Engineer - Palo Alto Networks

Manuel Lecher-Peham | System Engineer - KBC Group



paloalto[®]
NETWORKS

Cybersecurity
Partner of Choice



**Ukraine Krieg:
IT Security bleibt auch 2022 nicht “vorhersehbar”**

Aktuelle Sicherheitsbedrohungen

- 1 Cyberkrieg ist realität geworden: Cyber Pearl Harbor
- 2 Malware wird kommerziell / Entwicklung auf Staatskosten
- 3 Das Internet ist nicht mehr "frei" / Krieg im BGP
- 4 Die Cloud wird einfach besetzt (Co-Locations) / Lumen bzw Cogent
- 5 Ransomware-as-a-Service Gruppen gehen aufeinander los

Cyberkrieg ist realität geworden: Cyber Pearl Harbor

← → X stop--russian--desinformation-near-page.translate.google/?x_tr_sl=uk&x_tr_tl=en&x_tr_hi=en&x_tr_f...
 Apps Okta Salesforce LOOP - SE New HI... LumApps Kubernetes instan... LOOP - Employee...

Russia MUST BE STOPPED! Help Ukraine WIN!

English version

The "official" news in the Russian Federation is mostly fake and we believe it is better to shut them down and let people switch to truthful news.

Please, just open this page and let it be open on your devices. It will flood the Russian propaganda websites and pose a huge load on their infrastructure.

Your browser will be slow. It's ok, don't worry and keep it run.

A small contribution from each of us will save Ukraine 🇺🇦

Русская версия

«Официальные» новости в РФ полны пропаганды и транслируют ложную информацию о событиях на Украине. Мы считаем, что лучше их закрыть и позволить людям переключиться на достоверные новости.

Пожалуйста, откройте эту страницу на ваших устройствах. Заполните российские пропагандистские сайты запросами и создадите огромную нагрузку на их инфраструктуру.

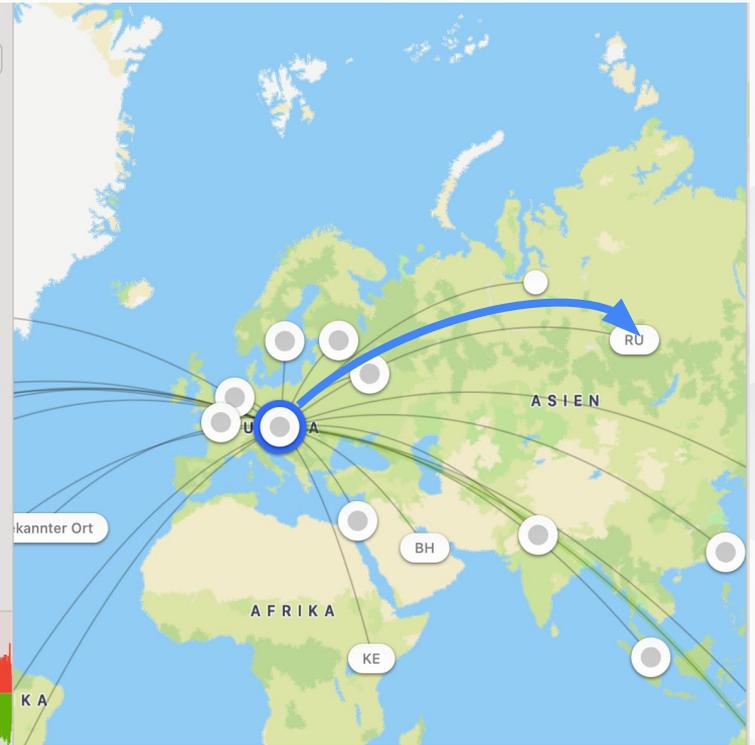
Ваш браузер будет работать медленно. Все в порядке, не волнуйтесь и держите его открытым.

Небольшой вклад каждого из нас спасет Украину 🇺🇦

URL

Number

https://lenta.ru/	1975
https://ria.ru/	974
https://ria.ru/lenta/	973
https://www.rbc.ru/	975
https://www.rt.com/	974
http://kremlin.ru/	988
http://en.kremlin.ru/	990
https://smotrim.ru/	973
https://tass.ru/	972
https://tvzvezda.ru/	974
https://vsoloviev.ru/	973
https://www.1tv.ru/	972
https://www.vesti.ru/	974
https://online.sberbank.ru/	973
https://sberbank.ru/	972
https://zakupki.gov.ru/	974
https://www.gosuslugi.ru/	973
https://er.ru/	972
https://www.rzd.ru/	972
https://rzdlog.ru/	973
https://vgrk.ru/	972
https://www.interfax.ru/	972
https://www.mos.ru/uslugi/	973
http://government.ru/	988
https://mil.ru/	972
https://www.nalog.gov.ru/	973
https://customs.gov.ru/	972
https://pfr.gov.ru/	972
https://rkn.gov.ru/	973
https://www.gazprombank.ru/	972
https://www.vtb.ru/	972



<https://stop-russian-desinformation-near.page/>

Anonyme Kriegsfinanzierung



Ukraine / Україна 

@Ukraine



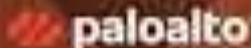
Stand with the people of Ukraine. Now accepting cryptocurrency donations. Bitcoin, Ethereum and USDT.

BTC - 357a3So9CbsNfBBgFYACGvxxS6tMaDoa1P

ETH and USDT (ERC-20) -
0x165CD37b4C644C2921454429E7F9358d18A45e14

4:29 PM · Feb 26, 2022 · Twitter for iPhone

3,875 Retweets **810** Quote Tweets **16.5K** Likes

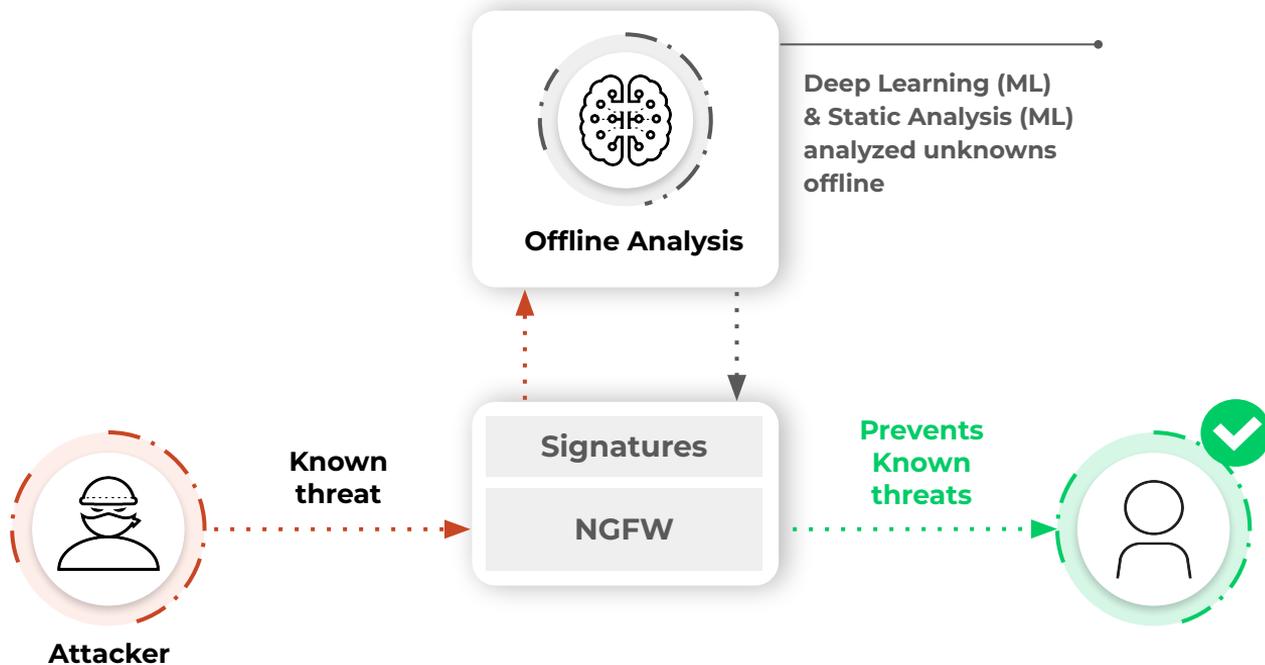


SAY HELLO TO **PAN-OS NEBULA**

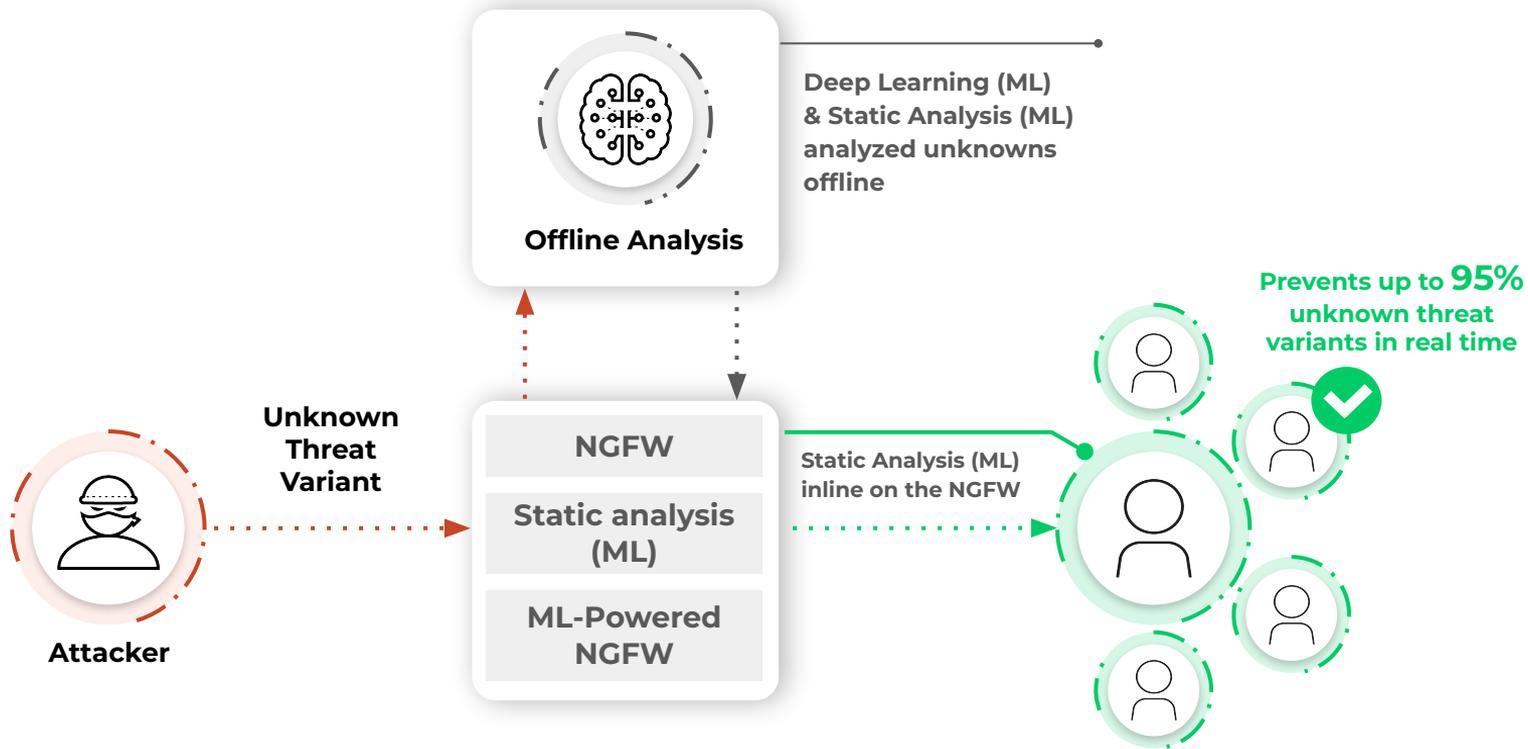
Now, you can stop zero-day threats in zero time

[SEE HOW IT WORKS TODAY ▶](#)

Traditional Network Security Stops Known Attacks with Signatures

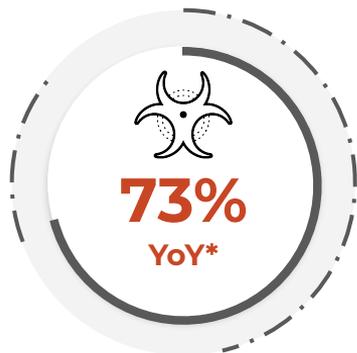


ML-Powered NGFW was a Huge Step in Defending Unknown Attacks



Organizations Must Assume Nation State-Level Attack Sophistication

Rise in malware
using Cobalt Strike



Sophisticated **Red Team tools** now empower attackers of **all skill levels** to evade detection

Phishing services with
built-in detection evasions



Successful phishing attacks have increased with hybrid work and evasive **phishing-as-a-service**

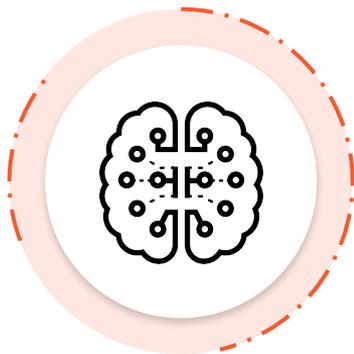
Stealthy data exfil
attacks per month



Widely available **hack tools** are bringing sophisticated **data exfiltration techniques** to all

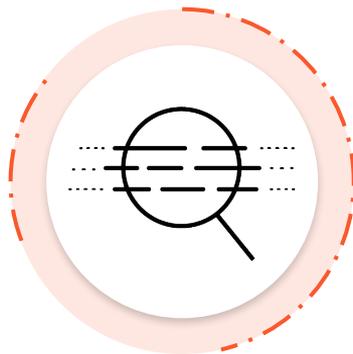
Modern Network Security Requires a Fundamentally New Approach to Stop Zero-day Threats

Harness the power of Deep Learning



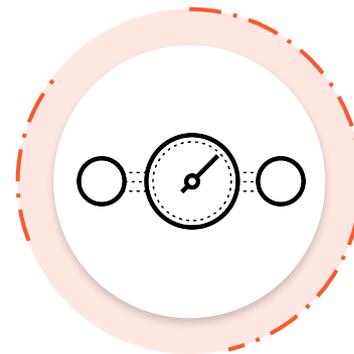
Powerful detection for today's most evasive and targeted attacks

Analyze real traffic as attacks unfold



Detects targeted attacks that evade offline simulations and web crawlers

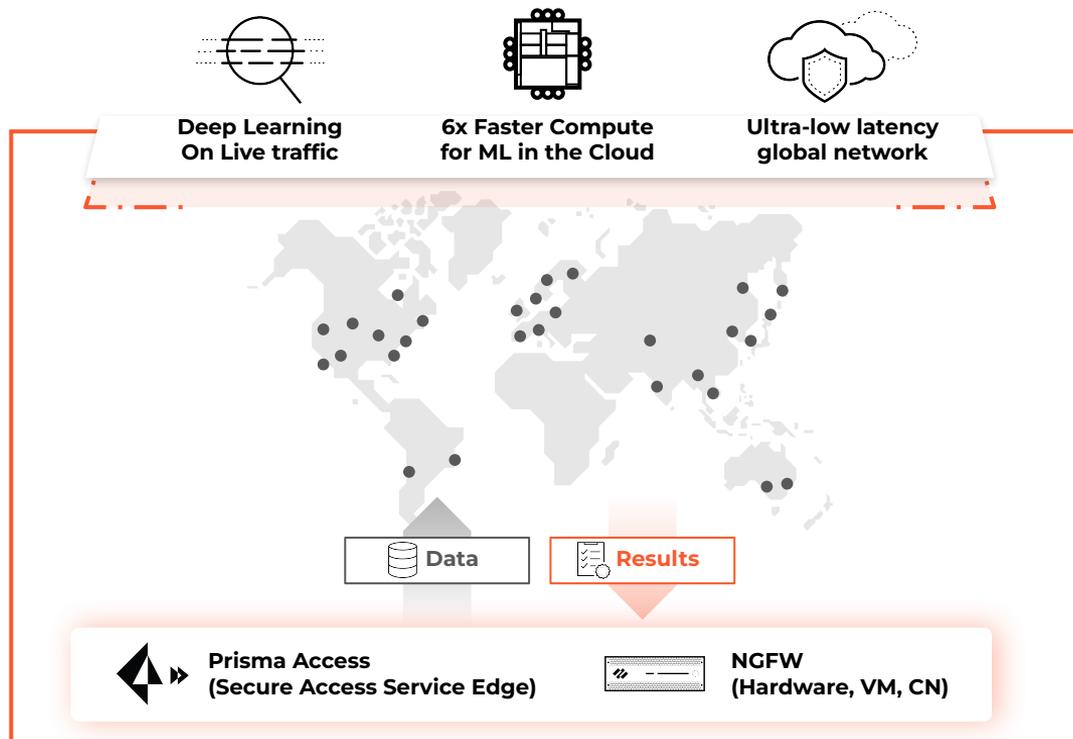
Run inline by being blazingly fast



Prevents an attack by stopping the 0-day and saving the initial victim

Introducing 'Inline Deep Learning'

Stop Zero-Day threats in Zero Time



All-new cloud-based **deep learning engine** detects today's most challenging **unknown attacks 6x faster**

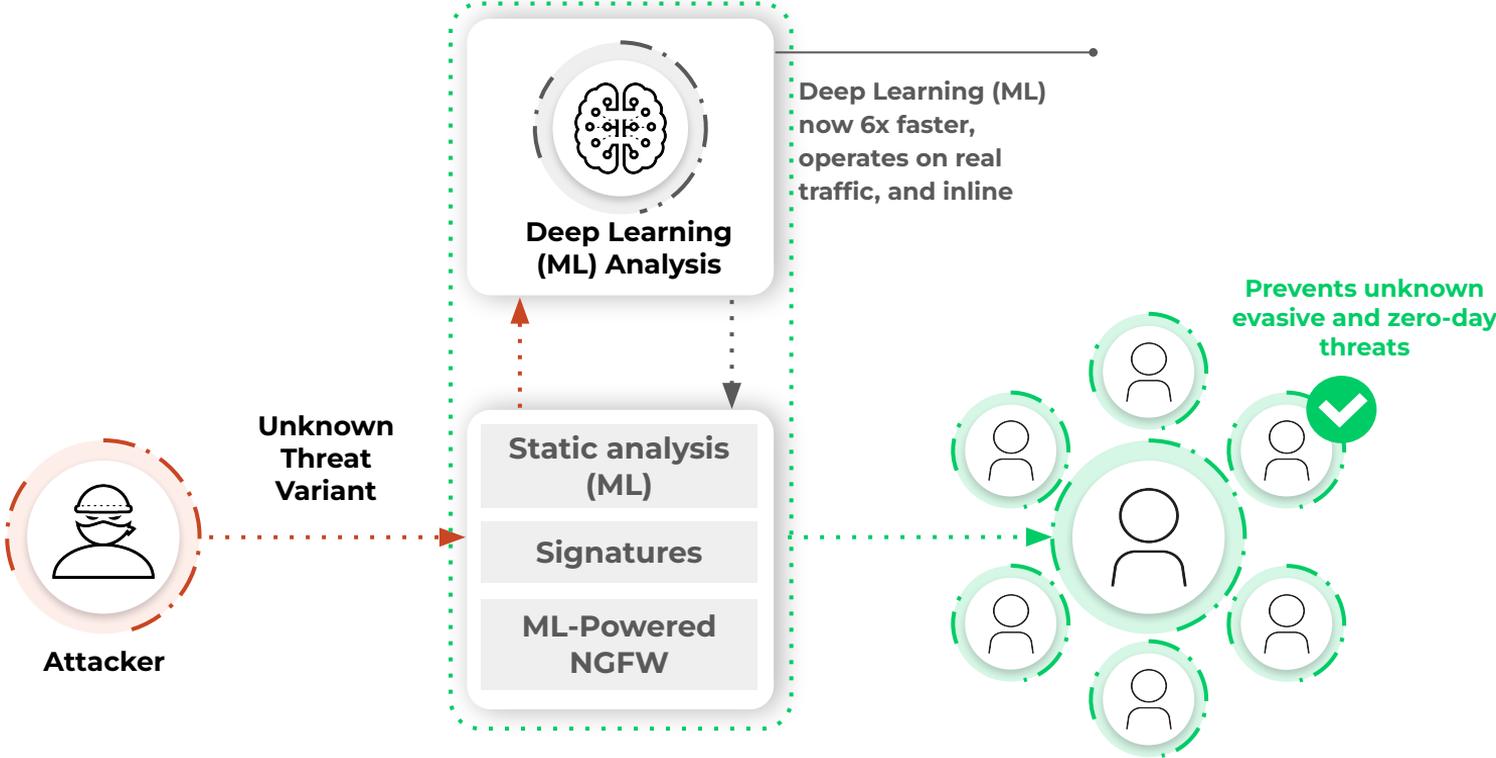


Brings **next-level prevention inline** to **defend the initial target**



Ultra-low latency global network **streams real data** from **cloud-based** and **on-prem** network security deployments

PAN-OS Nebula is the Next Evolution in Network Security



PAN-OS 10.2 Nebula

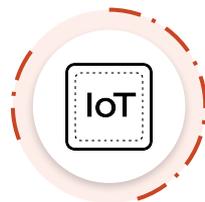
Stop Zero-Day threats in Zero Time with Nebula, the 10.2 release of our industry-leading PAN-OS



Advanced Threat Prevention
The only IPS to stop unknown C2 attacks in real-time, **48%** more than previously



Adv URL and DNS Protection
Stops **40%** more phishing attacks, **40% greater** DNS threat coverage than any competitor



IoT Security 2.0
Safeguard every 'thing' with the industry's smartest security for IoT devices



AIOps
Predictably better security and higher ROI with industry's **first AIOps for NGFWs**

Advanced Threat Prevention

The industry's *only* IPS to stop unknown C2 in real-time

Unknown C2 Detection Engine

- Deep Learning models
- Encrypted Traffic Classifier
- Anomaly Detector
- Malware Family Classifier
- Continuous Model Validation/Training Pipeline
- Prevention against C2 derived from hack tools (Eg: Cobalt Strike)

+ all the leading capabilities from Threat Prevention

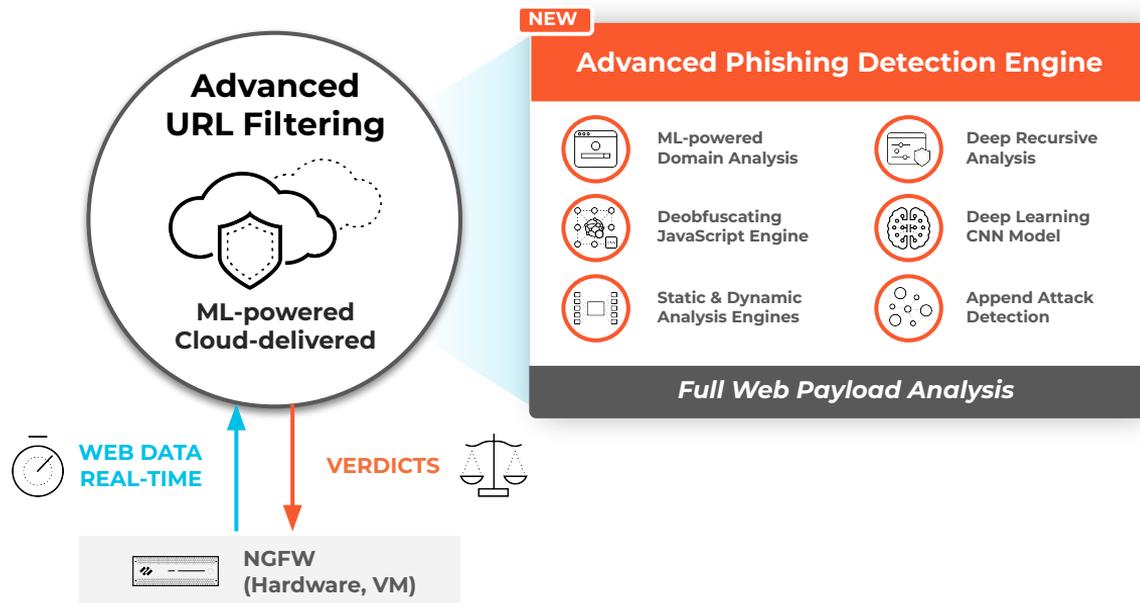


Increase in C2 threat detection compared to industry's leading Threat Prevention solution

Previously unknown C2 communications **blocked inline**

Advanced URL Filtering

The Industry's *First* Real-Time Prevention of New and Evasive Web-based Attacks



Prevents 40% more threats than traditional web filtering databases



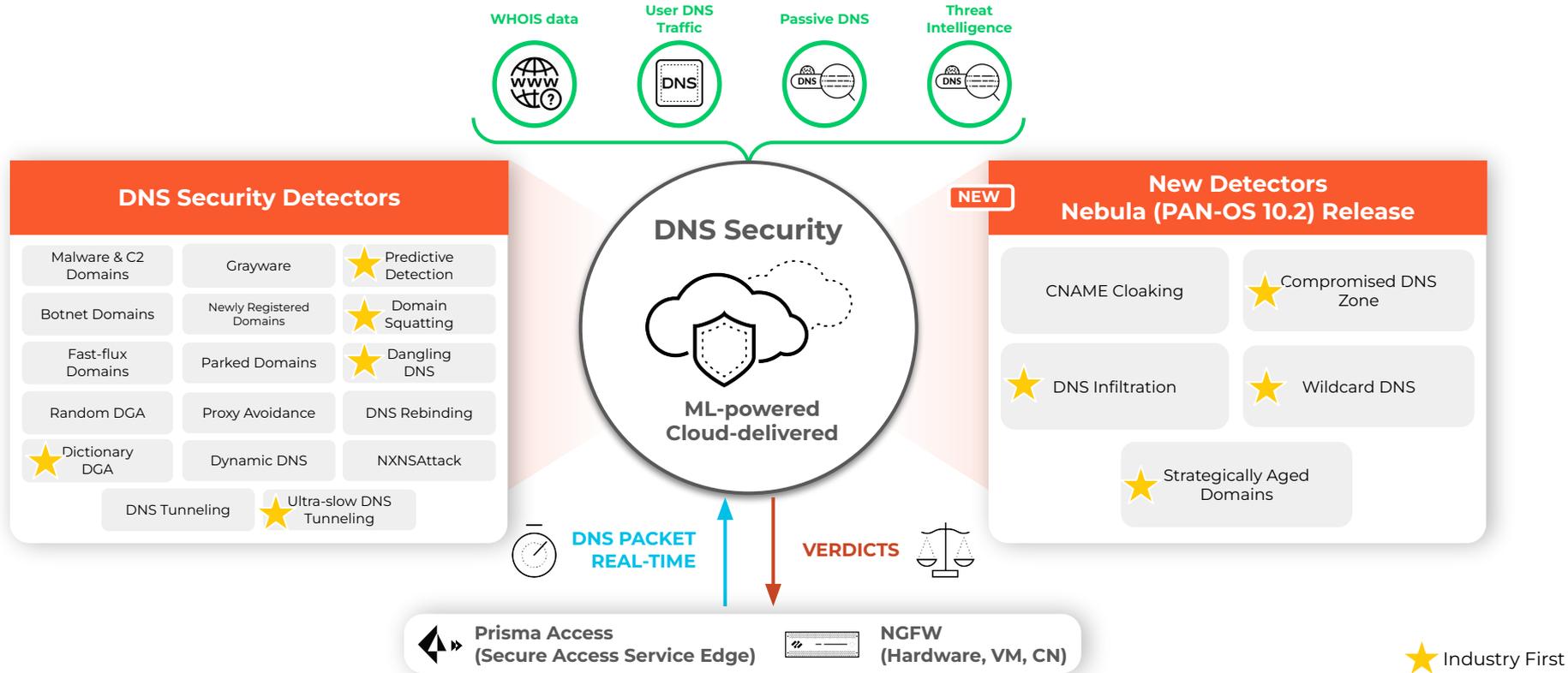
Powerful new detectors **defeat** evasive techniques used in **90% of modern phishing kits**



76% of malicious URLs discovered **24 hours** before other vendors

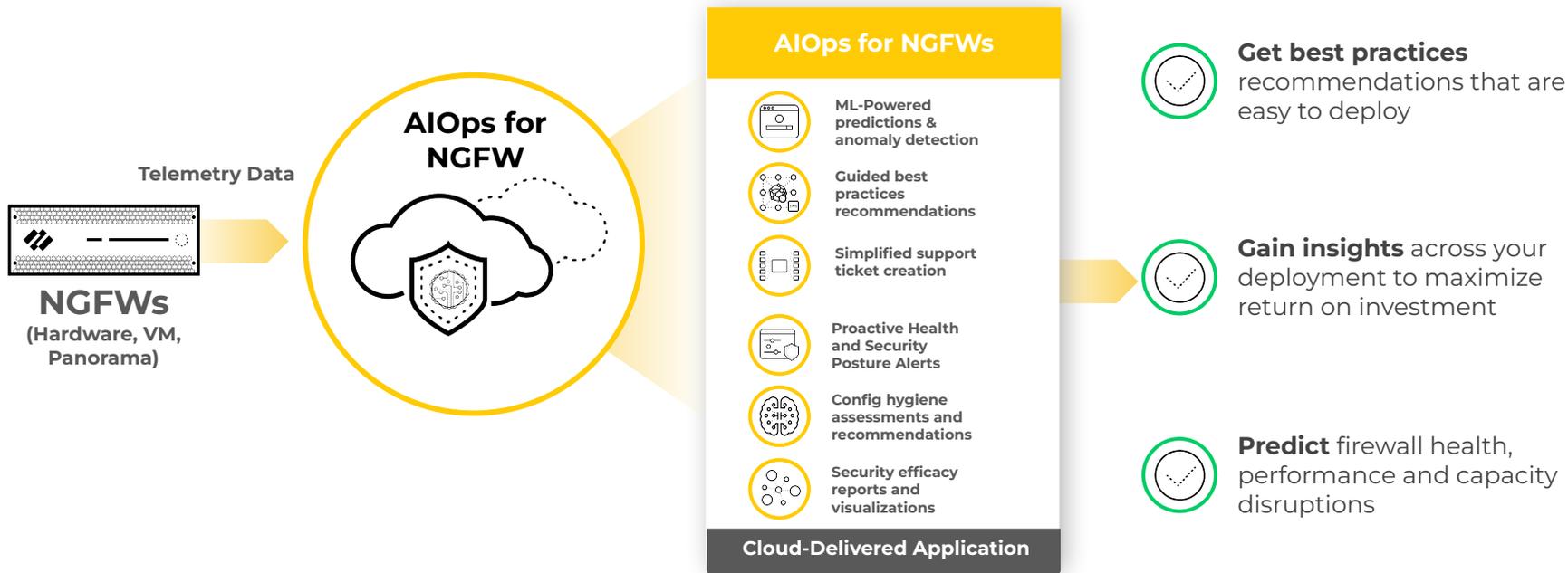
DNS Security

The industry's *leading* DNS Threat coverage, 40% More Than Any Other Vendor



Introducing Industry's first AIOps for NGFWs

Revolutionize NGFW operations with ML-powered insights for the best security posture and optimal health



IoT Security 2.0

Safeguard every 'thing' with the industry's smartest security for smart devices

IoT Security 2.0

Visibility

>90% devices identified in less than 48 hours with ML

NEW

Unified visibility for security analysts with XDR integration

Enhanced

Built-in integrations eliminate IoT blindspots in existing security solutions

Prevention

Built-in prevention for known and unknown IoT threats

Enhanced

20X Faster Zero Trust security with automated policies

NEW

1-Click Automated posture and compliance reporting

Deployment

NEW

70X time saved in activating IoT Security on current NGFW without changing current topology

IoT Security



ML-powered
Cloud-delivered

NGFW



Quick & accurate discovery



Best-in-class protection



Automated Zero Trust Security



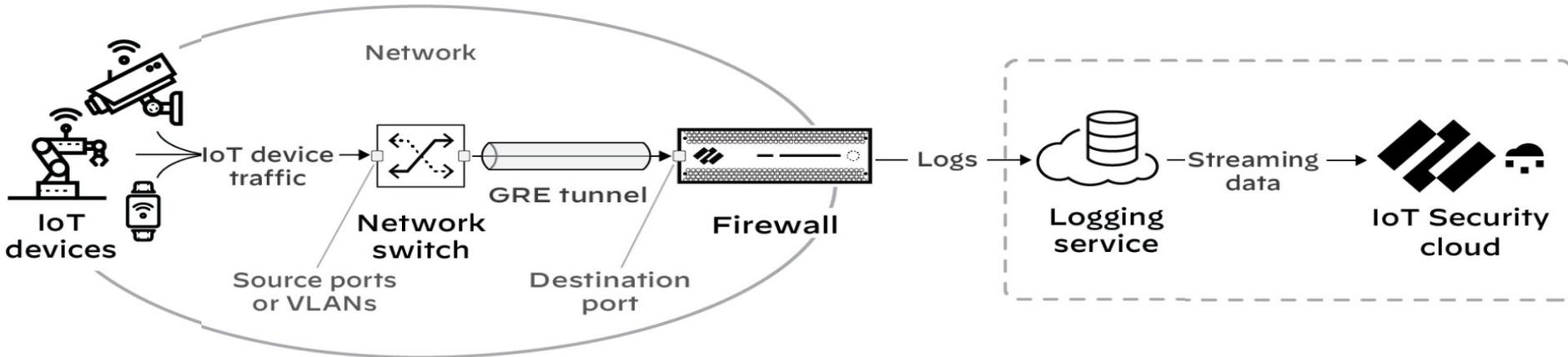
Integrated workflows



ERSPAN (Encapsulated remote SPAN)

Einfaches IoT Onboarding

ERSPAN Setup for IoT



Supported Devices: Catalyst 9600,9500,9400,9300. Not Supported: Catalyst 9200

Older HW: Catalyst 6500, 7600, 4500, Nexus, ASR 1000

Session Settings



Research all packets on policy change

ICMPv6 Echo Packet Rate (per sec)

100

ICMPv6 Error Packet Rate (per sec)

100

Enable IPv6 Firewalling

Enable ERSPAN support

Enable Tunnel Tracer

NAT64 (Plus Midstream Network MTE)

1280

NAT Oversubscription Rate

Platform Default

ICMP Unreachable Packet Rate (per sec)

200

Accelerated Aging

Accelerated Aging Threshold

80

Accelerated Aging Scaling Factor

2

Packet Buffer Protection

Monitor Only

Latency Based Activation

Alert CPU

50

Activate CPU

80

Block Countdown Threshold (CPU)

80

Block Hold Time (sec)

60



Panorama Features

Scheduled Commit

Config Push Schedules

Name: Push Scope: DisabledType: Device-level Network-levelName: Name:

Push Scope

Device Groups:

FQDNs

- Device Group
- Out of Service
- Device Name
- Connected IP
- Platform
- IP-addr (0)
- IP-addr (1)
- Model Group
- All-IP-Addr (0)
- IPv4-addr (0)

NAME	LAST COMMIT DATE	ALL-IP-ADDR STATUS	PENDING CHANGES
<ul style="list-style-type: none"> <input type="checkbox"/> All-IP-Addr (0) <input type="checkbox"/> All-IP-Addr (1) <input type="checkbox"/> All-IP-Addr (2) <input type="checkbox"/> Platform <input type="checkbox"/> IP-addr (0) 		Out of Sync	
<ul style="list-style-type: none"> <input type="checkbox"/> All-IP-Addr (0) 		Active	

Select All Deleted All Expand All Collapse All Group All Items Show Pending IP Merge with Device Candidate Config Include Device and Network Settings

OK

Cancel



Panorama Features

Partial Commit

LOCATION	TYPE	TYPE	ZONE	ADDRESS	TYPE	DEVICE	ZONE	ADDRESS	SERVICE	APPLICATION	STATUS	...
...
...

Convert Status

- **Progress** 77%

Details

- Changes to device group configurations (10/10)
- Changes to network configurations (10/10)
- Changes to device addresses (10/10)

Summary

Close

Global Protect 6.0

Endpoint Traffic Policy Enforcement

Prevents traffic bypassing the tunnel, either through malicious inbound access or applications binding to the physical adapter, or end-user tampering with the routing table.

Redesigned GlobalProtect App User Interface for Windows and macOS

A new, streamlined user interface for macOS and Windows endpoints provides improved workflows for quickly understanding connectivity and access issues.

SAML Authentication with Cloud Authentication Service

SAML Authentication is now integrated with Cloud Authentication Service, enabling authentication using cloud identity providers (IdPs) such as Onelogin or Okta.

Global Protect 6.0





What's next: Neue Hardware

3x Faster Security

in a smaller package

PA-5400 Series



PA-3400 Series



with new 4th Generation ML-Powered NGFWs

New ML-Powered PA-5400 and PA-3400 Series NGFW

3x security performance for Data Center, Internet Edge and Campus

PA-5400 Series



PA-5430



PA-5420



PA-5410

	PA-5410	PA-5420	PA-5430
App-ID Performance	36.7 Gbps	47.5 Gbps	59.4 Gbps
Threat Performance	23.5 Gbps	30.5 Gbps	40.9 Gbps
Networking I/O	4x 40/100G; 4x 25G; 12x 10G; 8x mGig		
Size	2RU (30% Reduction)		

PA-3400 Series



PA-3440



PA-3430



PA-3420



PA-3410

	PA-3410	PA-3420	PA-3430	PA-3440
App-ID Performance	11.3 Gbps	16.5 Gbps	19.6 Gbps	24 Gbps
Threat Performance	5.9 Gbps	8.8 Gbps	10.2 Gbps	12.7 Gbps
Networking I/O	4x 25G; 10x 10G; 12x mGig		2x 40/100G; 4x 25G; 10x 10G; 12x mGig	
Size	1RU (50% Reduction)			

50+ Features in PAN-OS 10.2 Nebula

Advanced Threat Prevention

- Advanced Threat Prevention subscription
- Inline Cloud Analysis/Deep learning Support
- Cloud-delivered ML-based C2 prevention

DNS Security

- 6 new attack techniques prevented

Advanced URL Filtering

- New anti-phishing capabilities
- Cloud Inline Categorization / Deep Learning Support
- HTTP Header Insertion Expansion

IoT Security

- ML-based automation of FW policy recommendations
- Simplification & automation for IoT data collection and traffic visibility
- Support for RSPAN & ERSPAN

AIOps

- Cloud-delivered application to strengthen security posture and maintain deployment health

Software Firewalls

- VM-Series Elastic Memory Profiles
- Auto-push content updates to software firewalls
- Support for 64 vCPUs on VM-Series; 47 vCPUs on CN-Series
- CN-Series Firewall as a Kubernetes CNF
- High Availability Support for CN-Series Firewall as a Kubernetes CNF
- Daemonset (vwire) IPv6 Support
- L3 IPv4 support for CN-Series
- IPv6 DAG Plugin Support
- DPDK support for CN-Series

Networking

- Advanced Routing Engine
- HA Cluster Behavior Change for Modular Systems

Decryption

- Multiple certificate support for inbound decryption

User-ID / CIE

- SCIM Support for CIE
- Extending visibility across additional platforms (SaaS Inline, Device Insights, ADEM, CDL, Explore, Visualization and Reporting)

Management

- Simplified Software Upgrade
- Selective push to managed firewalls
- Auto content push for SW Firewalls
- Log Collector Health Monitoring on Panorama

5G Security

- New deployment option for 3G + 4G/ LTE networks
- Mobile Network Security Support on New Mid-Range and High-End Hardware Platforms

We've got next.



Internet



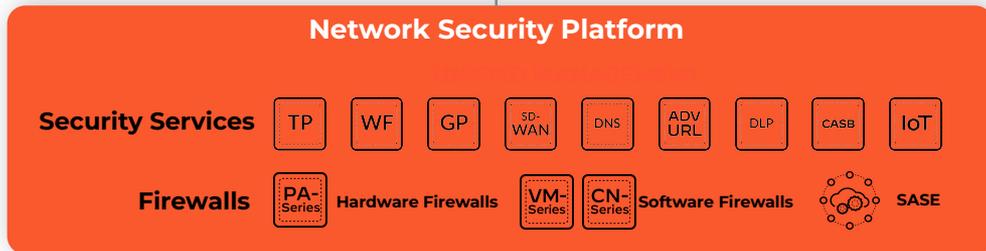
Private Cloud / DC



Public Cloud



SaaS Applications



HQ



Remote Location



Mobile



Home

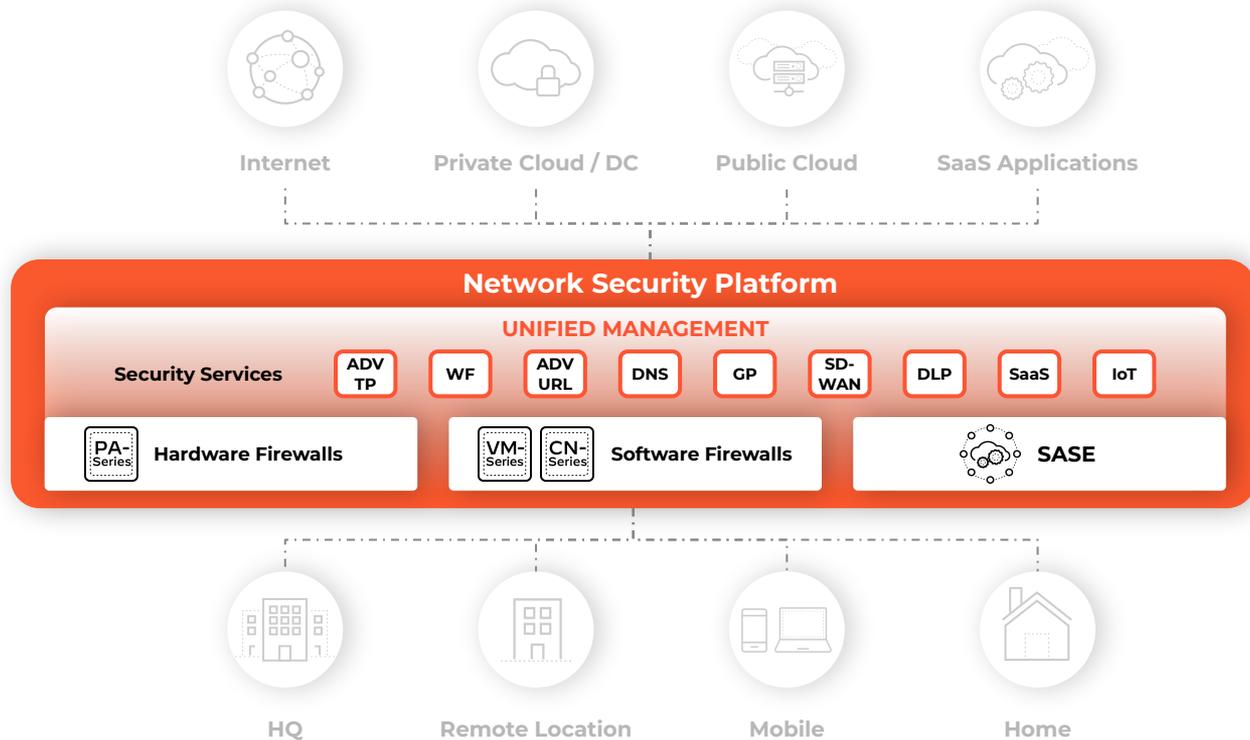
Best-in-class security for all users and applications

Integrated security services across hardware, software and SASE

Optimized end-user experience at all locations

Unified security operations

The Complete Network Security Platform



Best-in-class security for all users and applications

Integrated security services across hardware, software and SASE

Optimized end-user experience at all locations

Unified security operations

An aerial view of New York City at sunset, with the Empire State Building prominently featured. The sky is a mix of orange, yellow, and blue. A large, stylized orange graphic consisting of several overlapping curved lines and a semi-transparent orange oval is centered over the city. The text 'THANK YOU' is written in large, white, bold, sans-serif capital letters across the middle of the image, partially obscured by the orange graphic.

THANK YOU



paloalto[®]
NETWORKS

Cybersecurity
Partner of Choice