



CPX 360 2022 RE-CAP

Dameon, Shay, and Val

WHAT IS

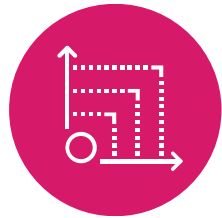
QUANTUM LIGHTSPEED

Paradigm Shift in Data Center Security

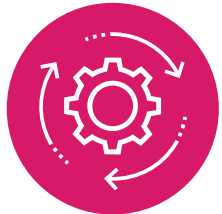
High Performance for Securing East West Traffic



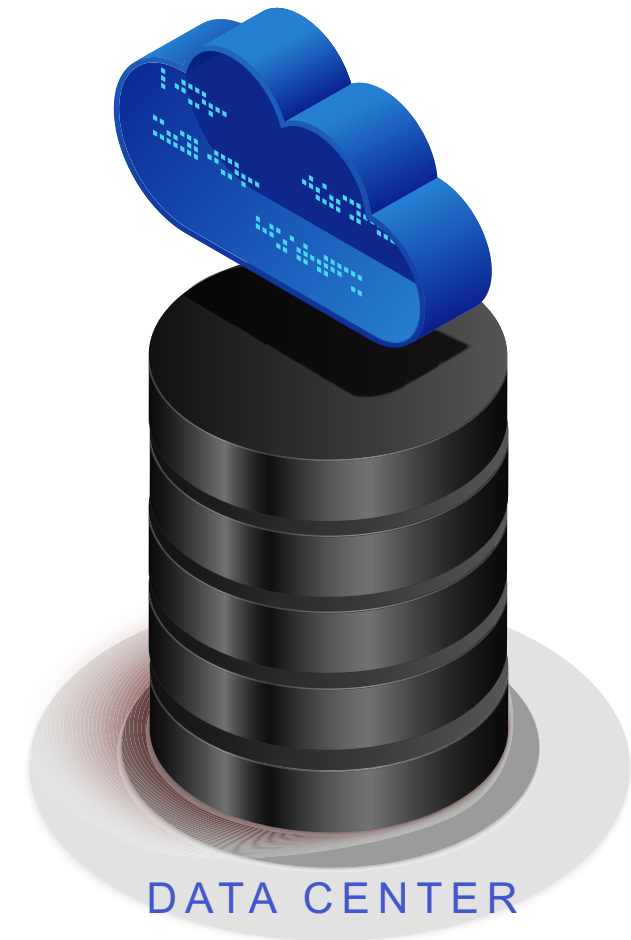
Deliver better security throughput
price performance



Scale security for 2x network
growth every 3 years



Achieve Ultra Low Latency



Redefining Firewall Security at Network Speed

- Hyper-fast firewall security at line-rate speed
 - 250 to 800 Gbps Hyper-Fast throughput
 - Ultra low latency at 3μs (10X faster)
 - Scalability up to 3Tbps with Maestro
- Leverage Nvidia ConnectX NIC
 - Most Secure and Advanced ASIC
 - Accelerate Packet Processing Technology



- QLS 250
- QLS 450
- QLS 650
- QLS 800
- MLS 200
- MLS 400



Hyper-Fast, Ultra-low Latency, Scalable

Quantum Lightspeed Family with Six models

Best security to fit any line rate firewall use case

				
Quantum Lightspeed Model	QLS250	QLS450	QLS650	QLS800
Firewall Throughput	250 Gbps	450 Gbps	650 Gbps	800 Gbps

		
Maestro Lightspeed Model	MLS200	MLS400
Firewall Throughput	200 Gbps	400 Gbps

250-800 Gbps faster speeds. 3μs latency. Scalability of up to 3TBps

Quantum Lightspeed+ Maestro Hyperscale Orchestrator

Scale throughput 7.5x to 3 Tbps

Beginning
Maestro Span



2x MLS200
400 Gbps

Maestro Base Configuration

Hyperscale Span



2x MLS200
400 Gbps

Maestro
MHO175

MLS200

Scale from 400 Gbps to 3 Tbps with Maestro*

* Or achieve the same 3 Tbps with 8x MLS400 + Maestro

Moving 100 TB of Data Center Backup Across Locations



Quantum
Security Gateway

**1.5
hours**

145 Gbps



28000



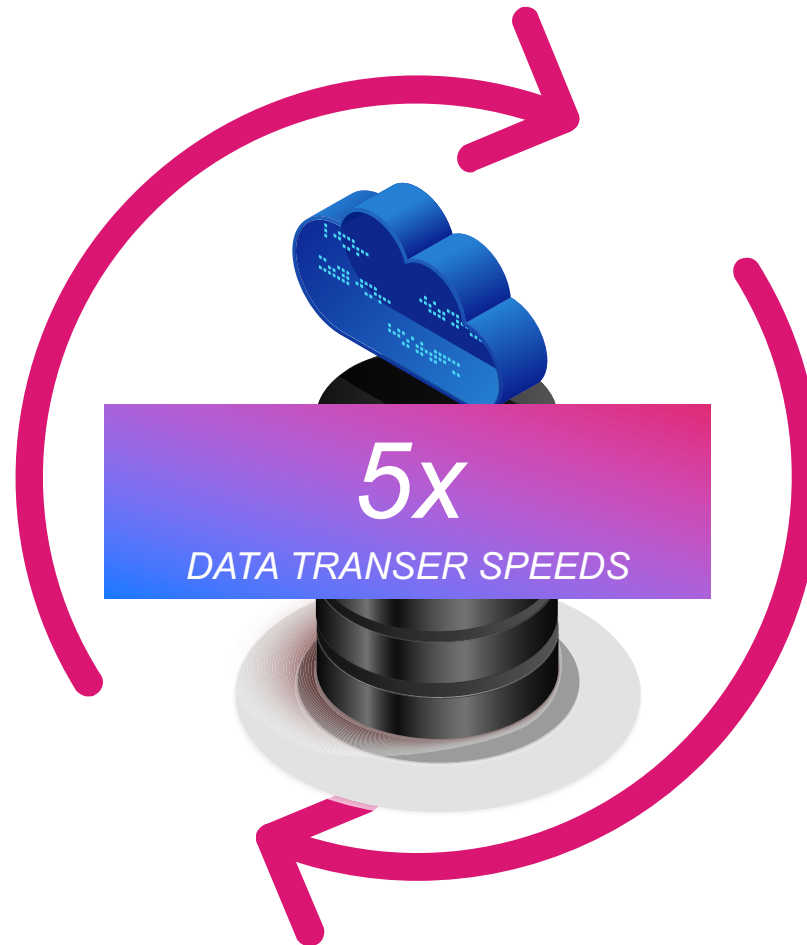
QUANTUM LIGHTSPEED

**17
minutes**

800 Gbps



QLS 800



**Quantum Lightspeed
Firewall moves backups 5x faster**

* 1 x 28000 vs 1 x QLS800

Fastest Access Control for Users across DC with Maestro

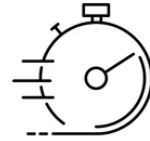


Quantum
Security Gateway

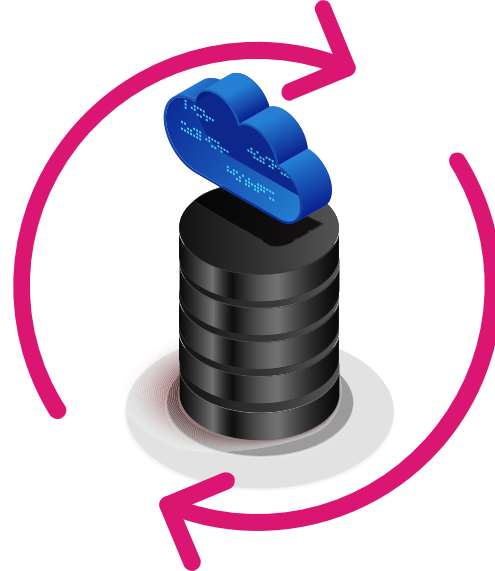
145 Gbps



2x 28000 1 + 1 Cluster



20x FASTER ACCESS



Maestro MHO175



QUANTUM LIGHTSPEED

3.0
Tbps



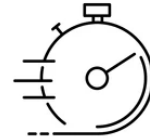
8x MLS400 + Maestro- N + 1

Quantum Lightspeed Security Throughput Scales higher with Maestro

Secure Financial Transactions with Microsecond Latency



Quantum
Security Gateway



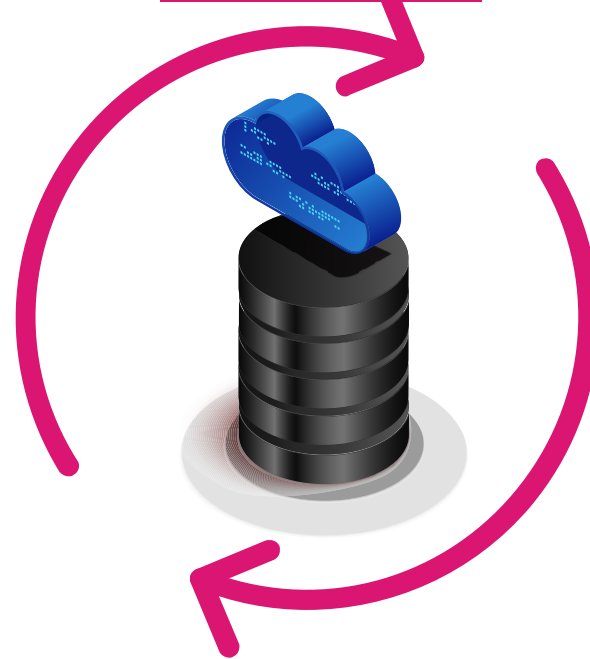
QUANTUM LIGHTSPEED

LEGACY
30
microseconds



28000

10x
QUICKER TRADES



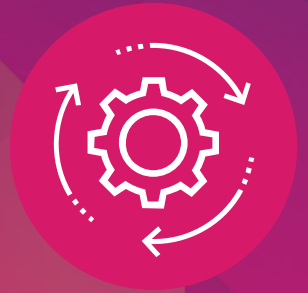
3
microseconds



QLS 800

Use cases include High Frequency Trading

HOW DOES IT WORK?



How does it work?

- 1 First packet in every connection validated by security policy
- 2 Approved traffic flow offloaded to Quantum Lightspeed ASIC
- 3 Subsequent packets are secured by accelerated packet processing ASIC



WHAT'S NEXT



Inline Encryption Hardware Engines

SSL Inspection

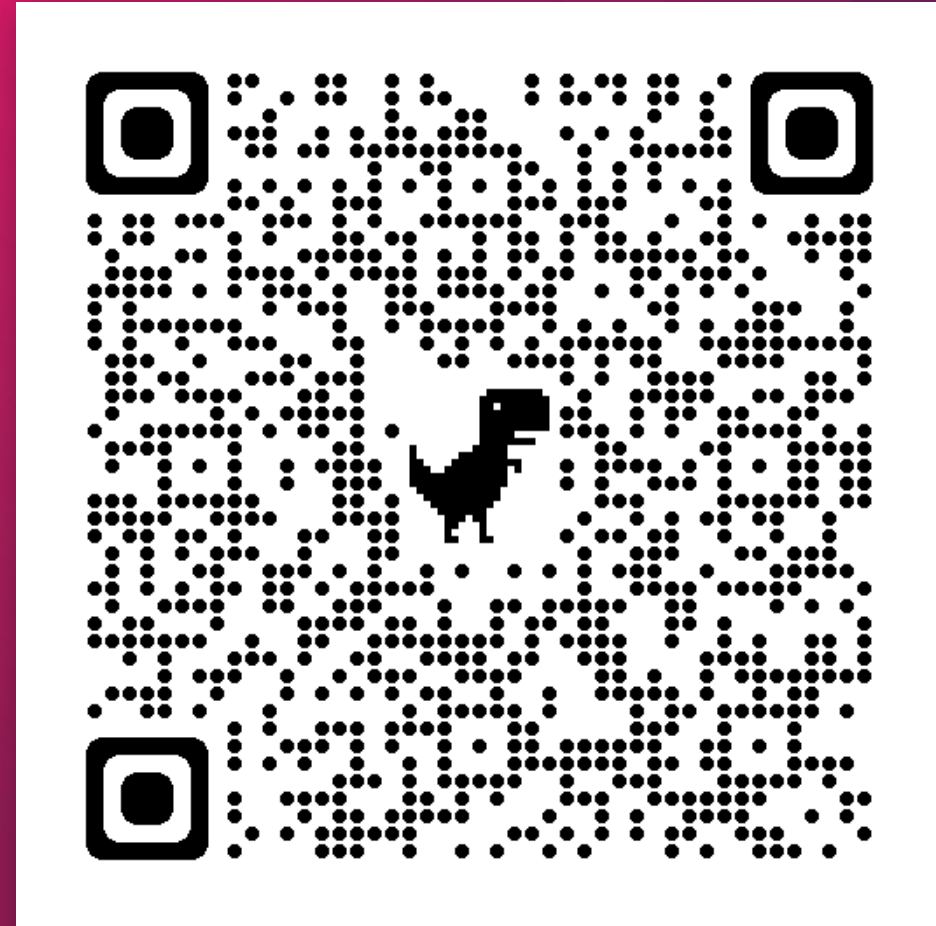
200Gbps rate
for SSL
encryption and
Decryption for
Threat
Prevention

IPSEC VPN

Remote Access
Site-2-Site



More info
sk176466



HYPERFLOW –

USING DYNAMIC LOAD BALANCING TO SECURE ELEPHANT FLOWS



Check Point®
SOFTWARE TECHNOLOGIES LTD

HYPERFLOW

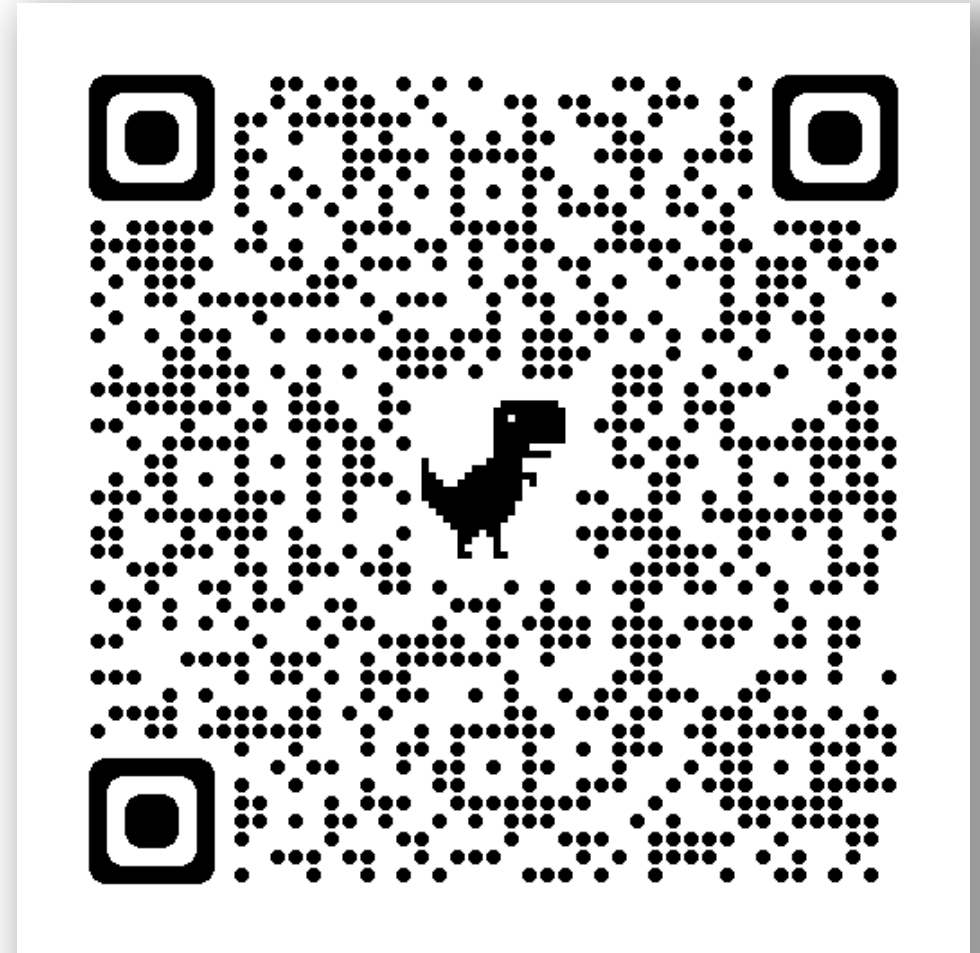
In Quantum Security Gateways

A large, stylized logo for CPX 360. It consists of a central circle containing the text 'CPX' above '360'. This central circle is surrounded by several concentric, semi-transparent rings in various colors (blue, green, yellow, red) that create a sense of depth and motion. The background of the slide features a large, faint version of this logo.

We all know that network throughput

HyperFlow - More Information on CheckMates

- Community Discussion
- EA Info & Contact Details



SNEAK PEEK: CHECK POINT SD-WAN

TYPICAL CUSTOMER REQUIREMENTS



Connect Multiple Branches

Connectivity between branches and data center



Enhanced Connectivity

Use multiple links, utilize more bandwidth for Internet and Data Center



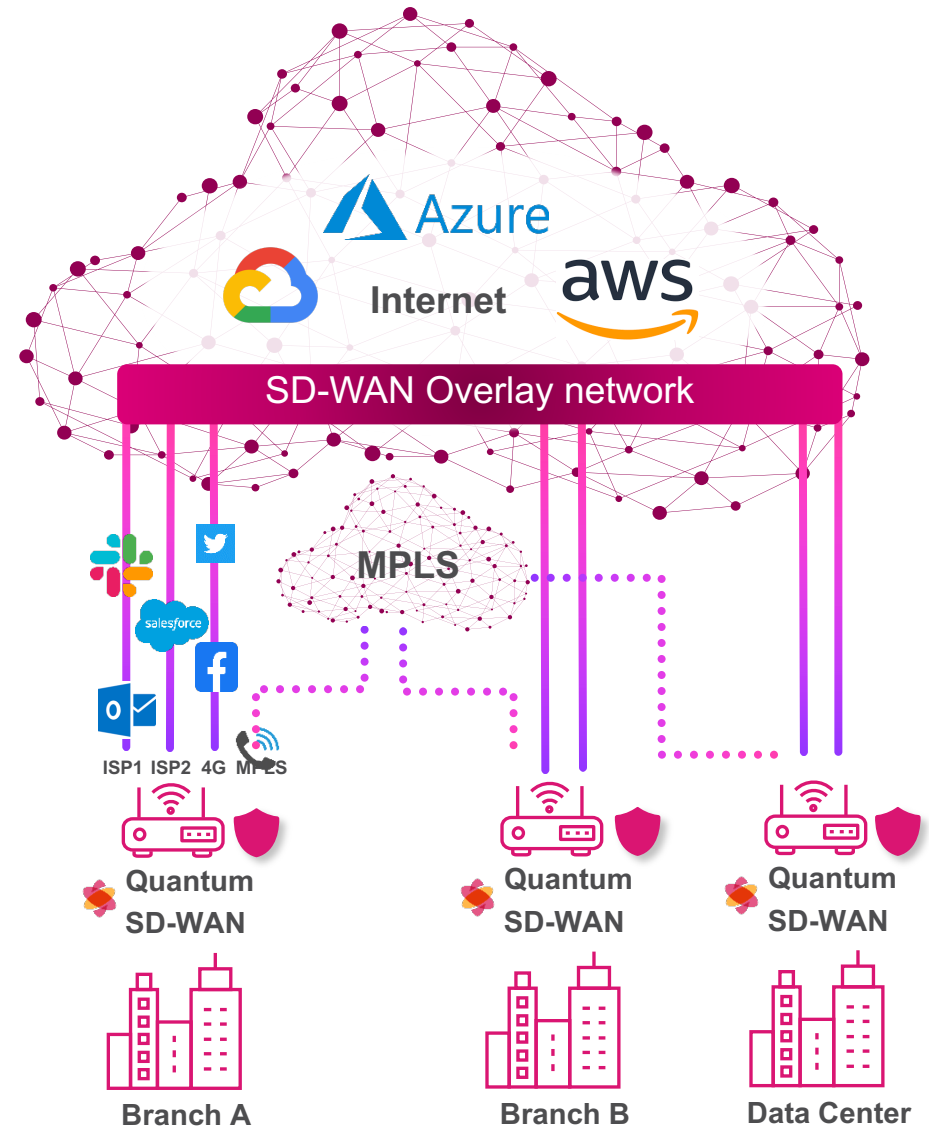
Autonomous Steering

Choose best link for each application, adapt according to burnouts and failures



Secure Connectivity

Secure both incoming and outgoing branch connectivity



STRATEGIC OPTIONS THAT FITS YOUR BUSINESS



Harmony
Connect



Quantum
Edge

**Protect 3rd party SD-WAN with
Check Point Security**

**Maximum flexibility
Ideal for existing SD-WAN deployment**

velocloud™
Now part of VMware

aruba
a Hewlett Packard
Enterprise company

CITRIX™

ORACLE®
Talari

CISCO

silver peak

aryaka

VERSA
NETWORKS



Quantum
SD-WAN



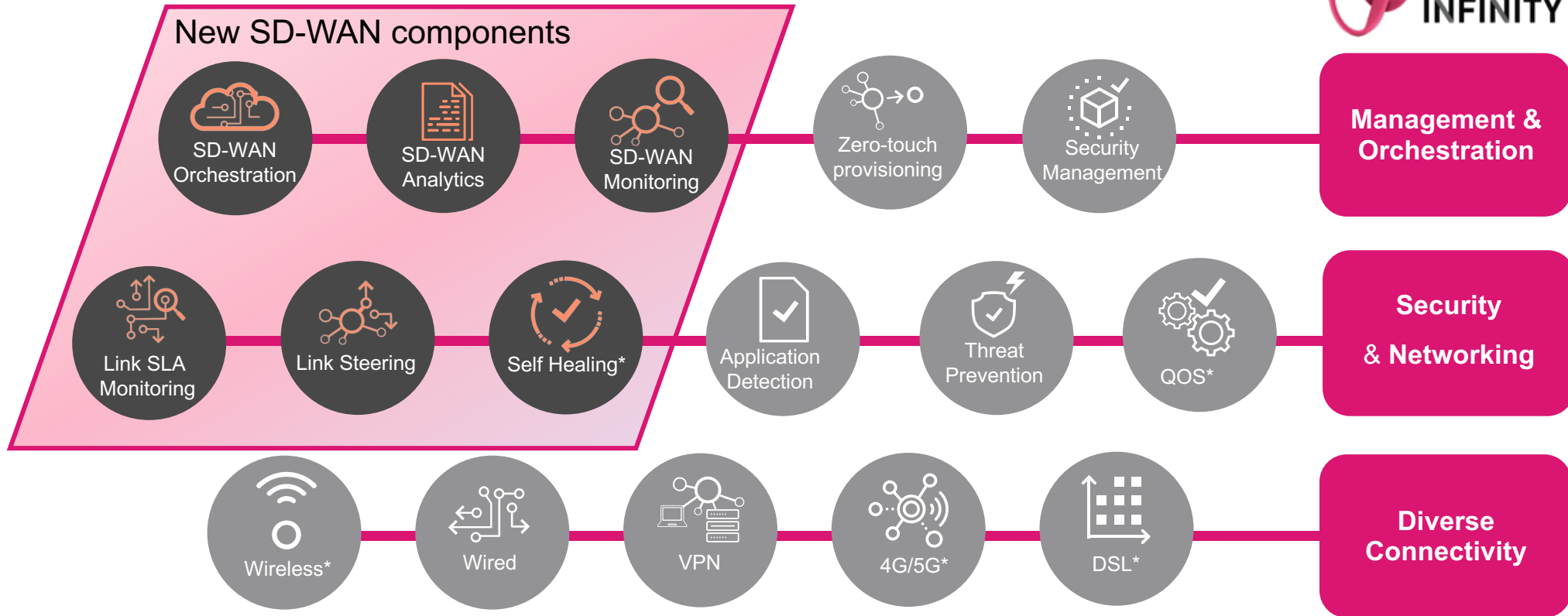
**Activate SDWAN on your
Quantum Appliances**

**Reduce rollout time and cost
Enhancing Quantum GWs capabilities**



QUANTUM SD-WAN ARCHITECTURE

SD-WAN and Security Converged



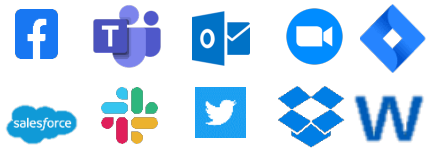
Based on **R31.10**

*Roadmap

RICH SD-WAN CAPABILITIES

APPLICATION CENTRIC

Highest number of preconfigured apps



8,600+

IDENTITY AWARE

Identity based steering for best user experience



OPTIMIZE APP CONNECTIVITY

Multiple WAN links support for cost efficiency

Internet | MPLS | 4G/LTE/5G

RICH SD-WAN CAPABILITIES

AUTONOMOUS TRAFFIC STEERING

Easy configuration with built-in traffic steering policy

Seamless sub-second failover between service providers (Overlay)

Best path selection based on Latency, Jitter, Packet-Loss

STEERING OBJECT

Name *

Video Conference



Comment:

Improved quality for Video Conference

Connection Type:

- Local breakout
- Overlay - VPN & MPLS

Steering Candidates:

- All Relevant WAN Links
- Specific WAN Links

Thresholds:

Connection will be steered to WAN links that meet the following thresholds:

Latency up to:	<input type="text" value="150"/>	ms
Jitter up to:	<input type="text" value="5"/>	ms
Packet loss up to:	<input type="text" value="1"/>	%

UNCOMPROMISING SECURITY

Best Threat Prevention



Prevention First

Block attacks faster than anyone else



Best Catch Rate

Of known & unknown threats; big data threat intel and AI engines



Accurate Prevention

Deep Learning supported signature matching, fewer alerts/tickets



UNMATCHED SIMPLICITY AND MANAGEMENT



Leverage Existing Deployment
Reduce Cost & Rollout Time from Months to Minutes

#	Name	Source	Destination	Services & Applications	Behavior
1	VOIP	Any Branch	Any Branch	VoIP	VOIP-Best Practice
2	Business Applications	Sales Department Business Department	Internet	Salesforce	Business Applications-Best Practices
3	File Storage and Sharing	Any User	Internet	File Storage and Sharing	File Storage and Sharing
4	Video Conference	Any Branch	Internet	Microsoft Teams Zoom	Video Conference-Best
5	Realtime	Any User	Overlay Netwc	Remote Desktop Protocol	Realtime(Overlay)-Best Practice

Users, devices,
Network

8K+ applications &
services

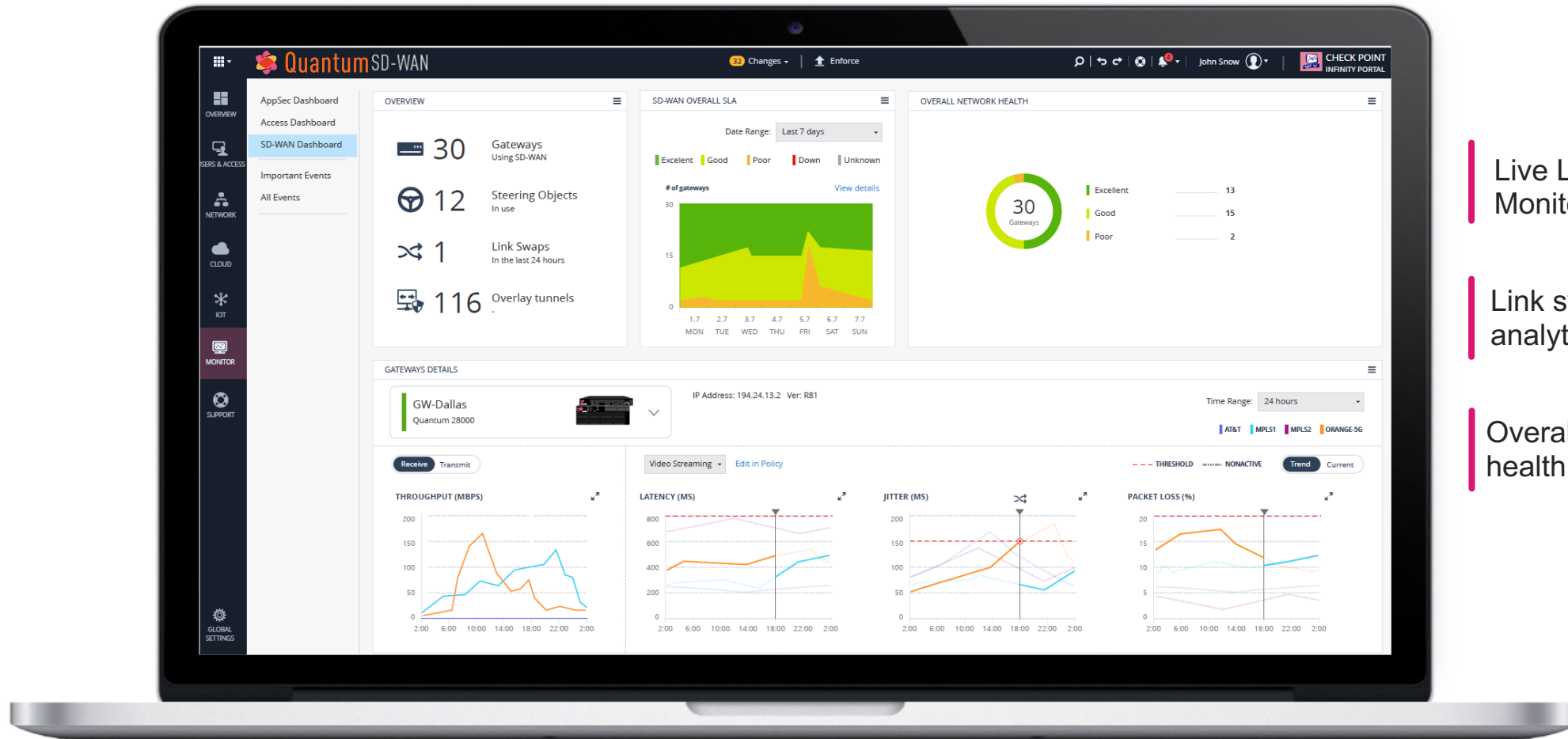
Steering configuration:

- Overlay / Local breakout
- Probing destination
- SLA thresholds
- Links

Out of the box steering policy - enhanced connectivity **from day 1**

UNMATCHED SIMPLICITY AND MANAGEMENT

INTUITIVE CLOUD-BASED MONITORING DASHBOARD



Live Link SLA Monitoring

Link swap analytics

Overall network health

Respond faster to connectivity burnouts and failures



QUANTUM SD-WAN



SD-WAN - Demo



Feedback



Publish



Enforce



Under Attack?



Ad Attias



CHECK POINT INFINITY PORTAL

RECENT (5)

Policy

Policy Alpha

Smart-1 Cloud

Connect

SOC

Show previous product names



INFINITY-VISION

Unified Solution



QUANTUM

Secure the Network



CLOUDGUARD

Secure the Cloud



HARMONY

Secure Users & Access

SOC

Policy

Smart-1 Cloud

Quantum SD-WAN

Posture

Network

Workload

Identity

ShiftLeft

Intelligence

Application Security

Connect

Endpoint

Mobile

Email & Office

Browse



CHECK POINT LABS



GLOBAL SETTINGS

Tech Preview



QUANTUM SD-WAN RELEASE + ROADMAP

GA

Mid '22

R31.10

Multiple WAN link support

Application & Identity based routing

Multi Path Orchestration

Hub and Spoke Overlay (+MEP)

Autonomous traffic steering

Bandwidth aggregation

High Availability

SD-WAN Monitoring, Logging & Analytics

Full Threat Prevention Capabilities

*Estimated

ROADMAP

Quantum Spark

Self-healing WAN

Full Mesh Overlay

Harmony Connect (SASE)

QOS

Additional platforms

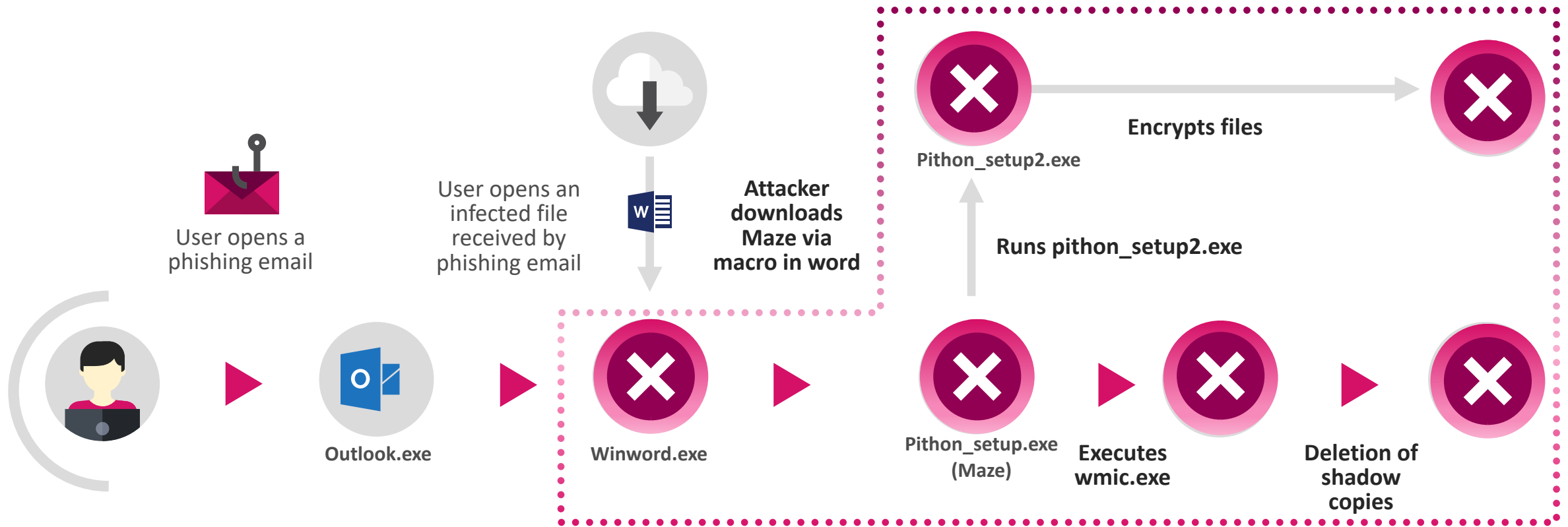
Large scale management

Join EA Program



pages.checkpoint.com/get-notified-check-point-sd-wan-ea-program.html

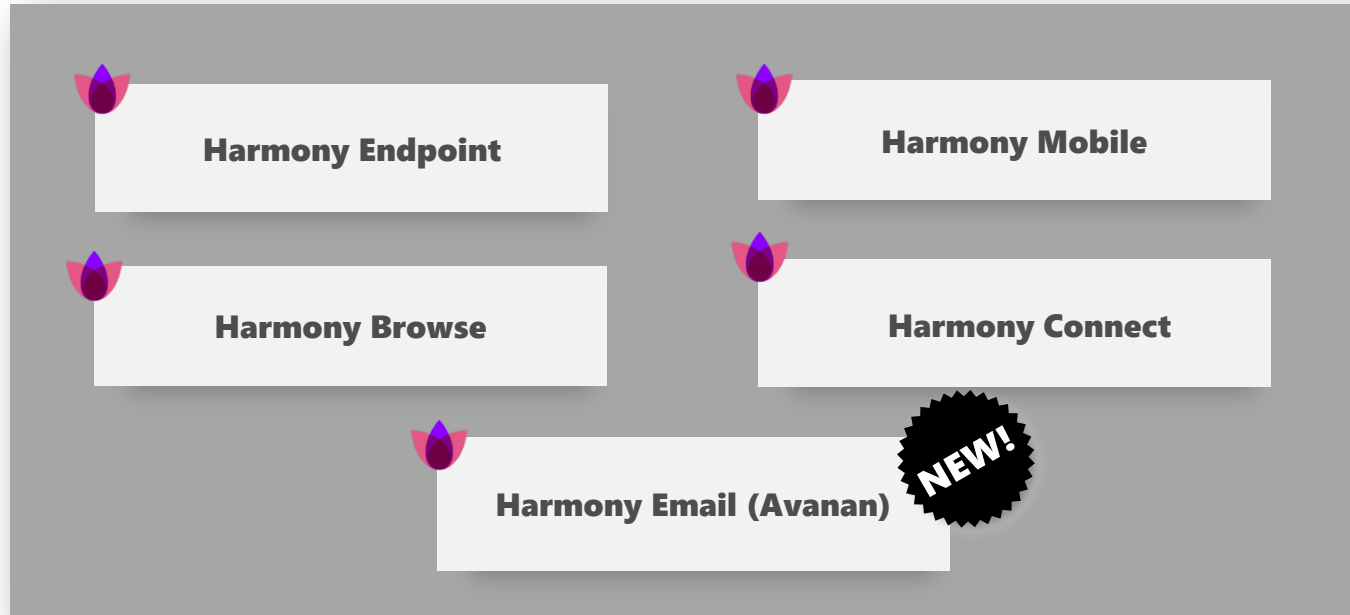
AUTOMATED STERILIZATION ENSURING BUSINESS CONTINUITY



CLEANS THE ENTIRE ATTACK

5
Granted patents

HARMONY – UNIFIED SECURITY FOR USERS & ACCESS



Prevent Ransomware

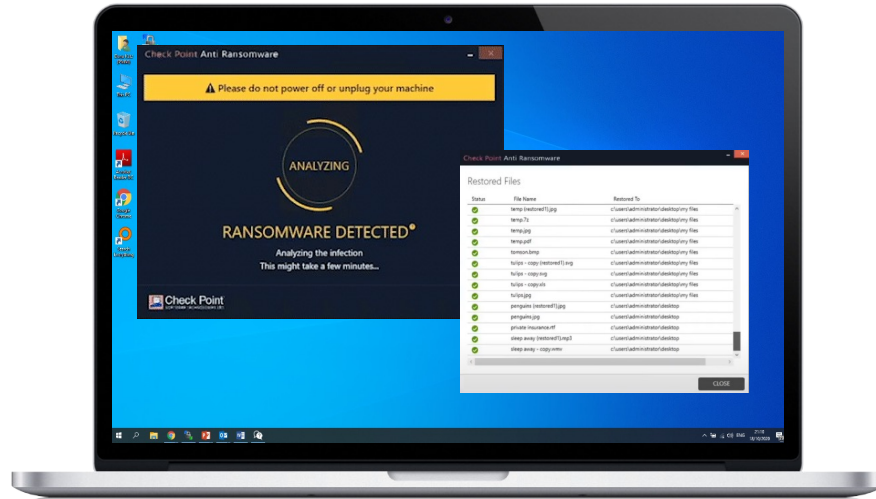
Prevent Phishing

NEW!

Prevent Malware

Prevent Password Loss

FULL ATTACK ANALYSIS & REMEDIATION



AUTOMATED RECOVERY

Safely restores ransomware-encrypted files

ON-DEVICE ATTACK DETECTION AND REMEDIATION

even in an offline mode

Automated

Monitors and collects all the events

Detects attacks

Quarantines what's malicious

Cleans the entire attack kill chain

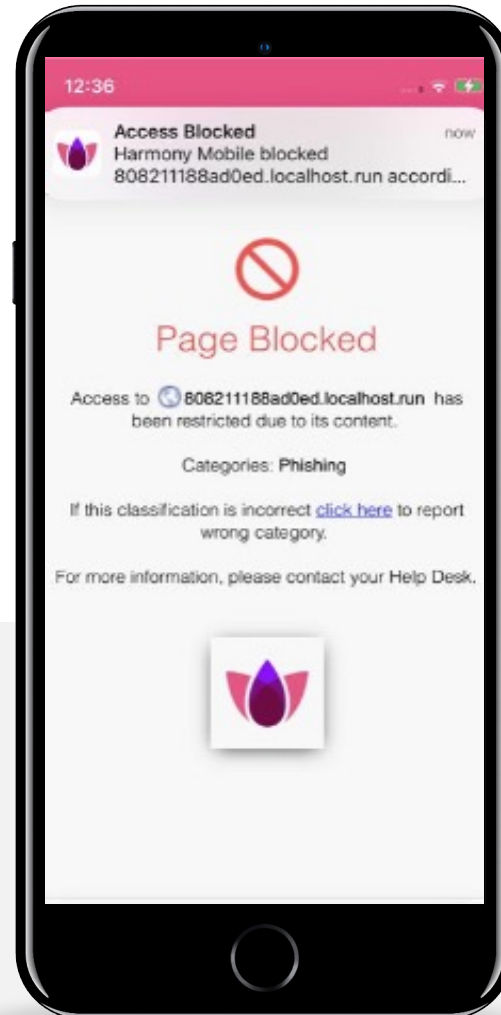
File restoration & rollback

Forensics report

Secured Internet Browsing & Phishing Prevention

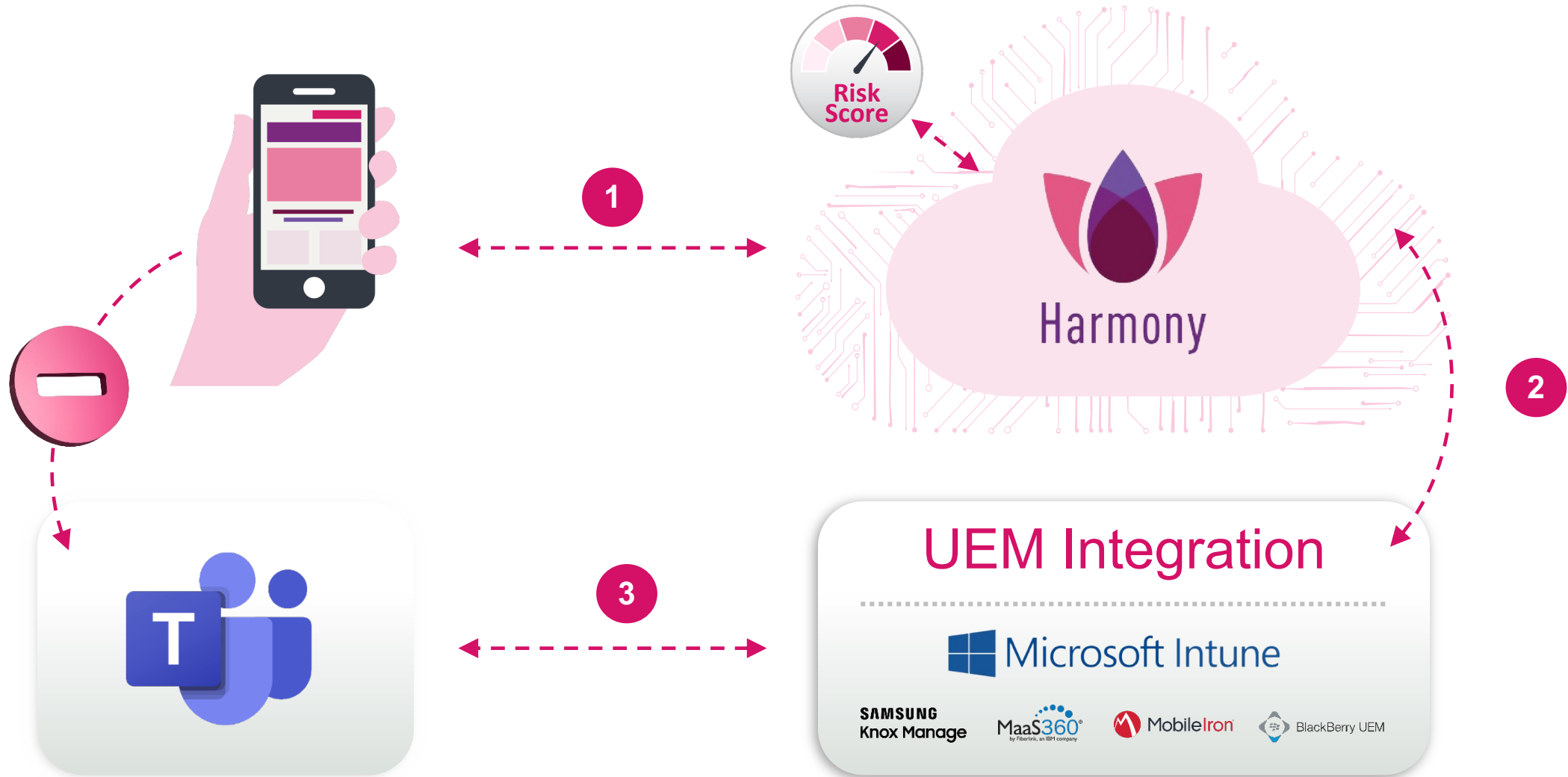
User receives a message with a link

URL identified as malicious phishing and blocked

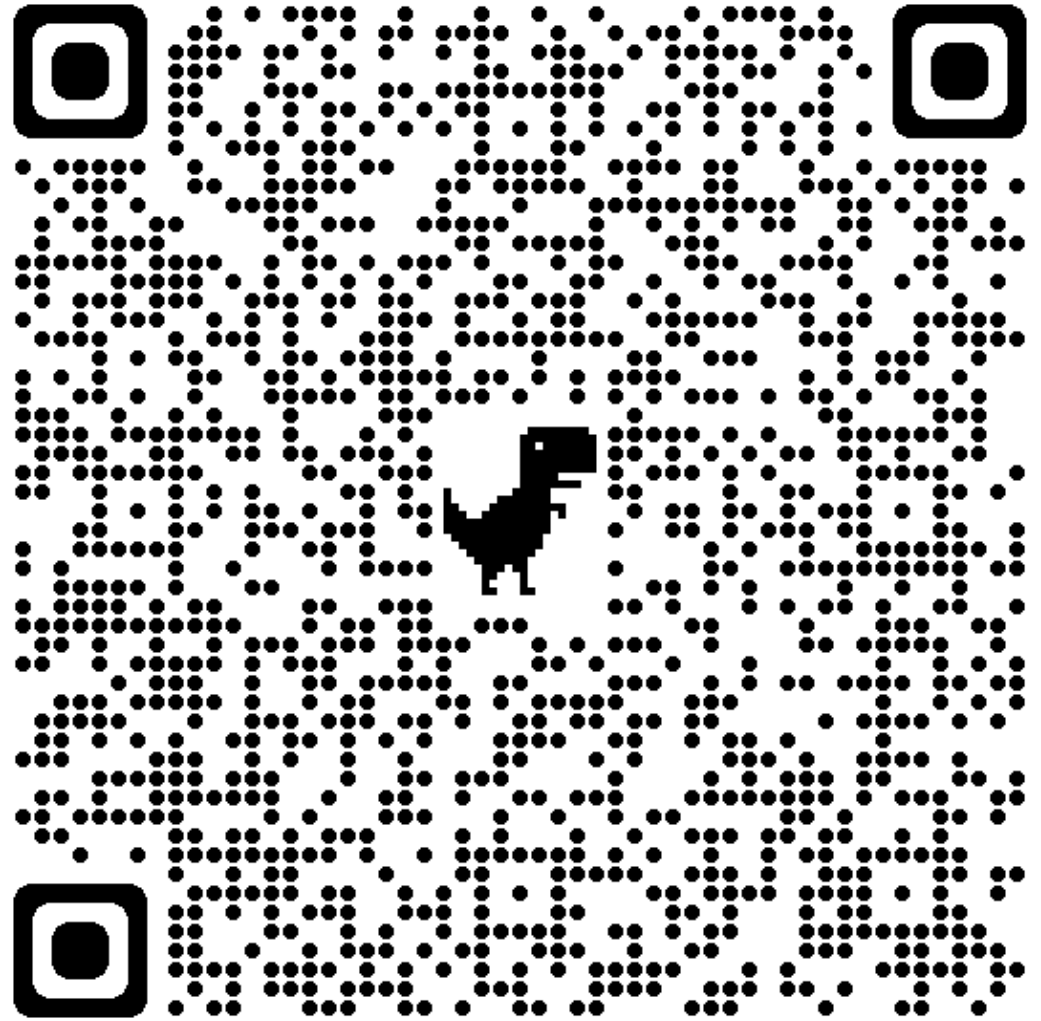


- Anti-phishing engine instantly inspects the link
- Unknown sites analyzed in real-time with Zero-phishing

Risk-Based Conditional Access

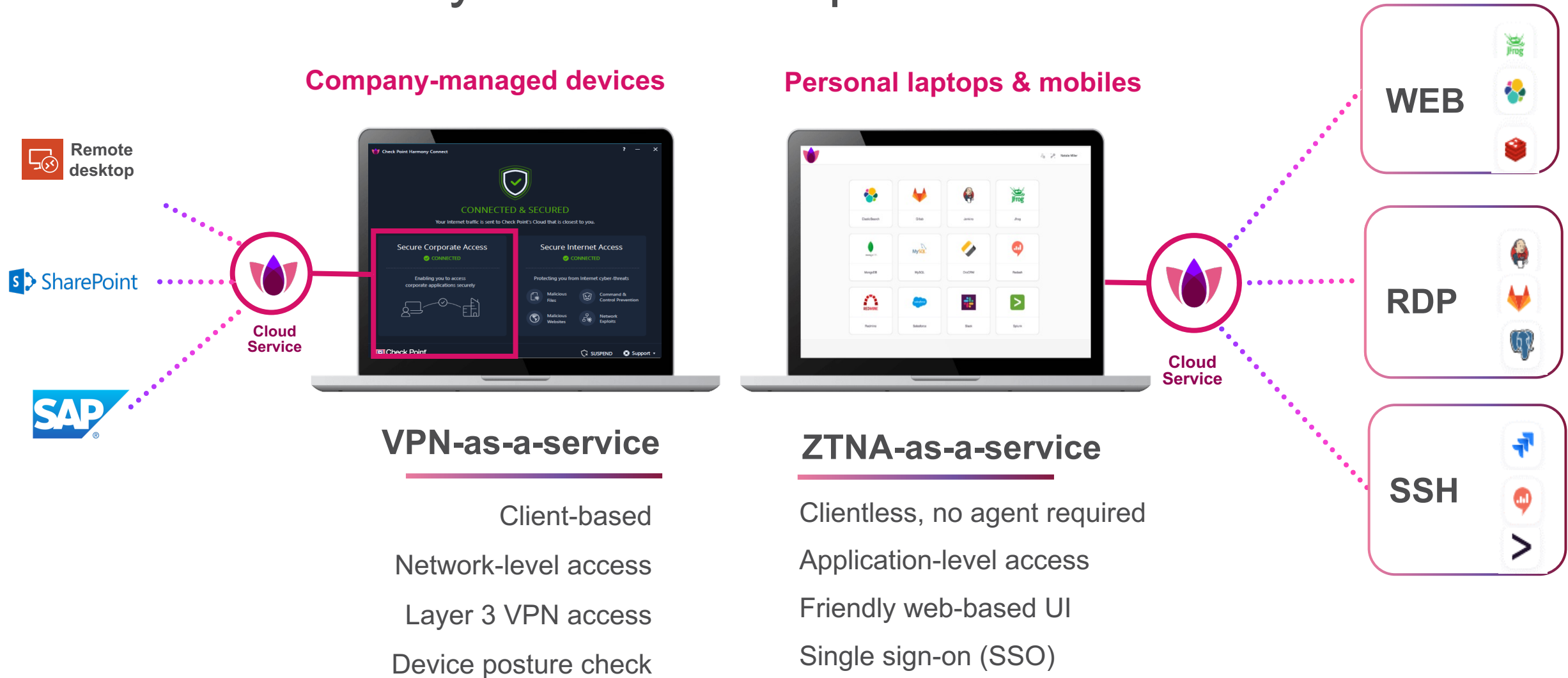


RANSOMWARE PROTECTION WITH HARMONY ENDPOINT AND MOBILE



Harmony Connect Remote Access

The easiest way to secure corporate access



Company-managed devices

Personal laptops & mobiles

VPN-as-a-service

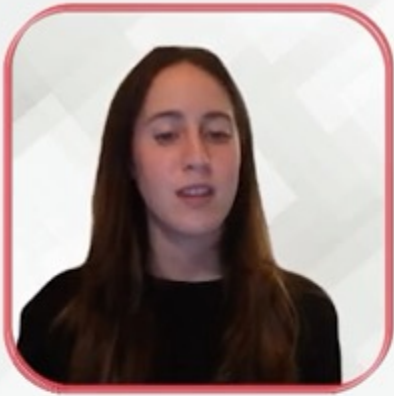
- Client-based
- Network-level access
- Layer 3 VPN access
- Device posture check

ZTNA-as-a-service

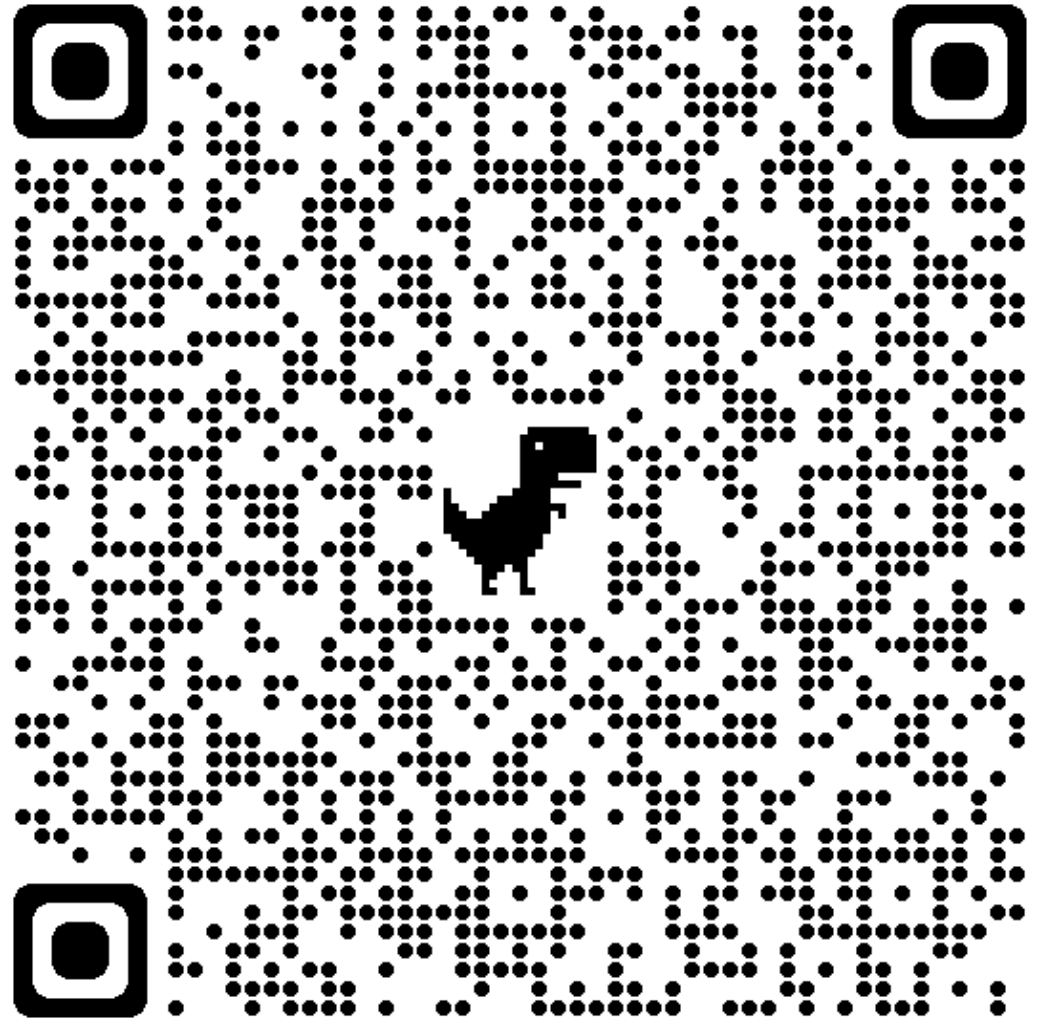
- Clientless, no agent required
- Application-level access
- Friendly web-based UI
- Single sign-on (SSO)



The screenshot shows the Check Point Harmony Connect web interface. The browser address bar displays "portal.checkpoint.com/dashboard/connect#/policy/policy-overview". The page header includes "HARMONY CONNECT", a user profile for "Noa Zilberman", and a status indicator "Under Attack?". The left sidebar contains navigation options: GETTING STARTED, ASSETS, POLICY, LOGS & EVENTS, and SETTINGS. The main content area is titled "Policy Overview" and features a left-hand menu with categories: Access Control (Access Conditions, Internet Access, Network Access, Application Access), Threat Prevention (Profile, Exceptions, SSL Inspection, Identity Awareness, Policy Revisions), and IDENTITY AWARENESS. The main content area displays three large cards: "ACCESS CONTROL" (Create granular access to hosted, cloud and Internet applications. Links: Internet access, Network access, Application Access), "THREAT PREVENTION" (Protect users and sites from known and unknown threats. Links: Profile, Exceptions), and "SSL INSPECTION" (Prevent cyberattacks for encrypted traffic. Link: SSL Inspection). A fourth card for "IDENTITY AWARENESS" is partially visible at the bottom.

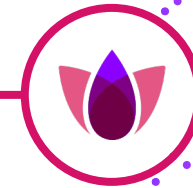
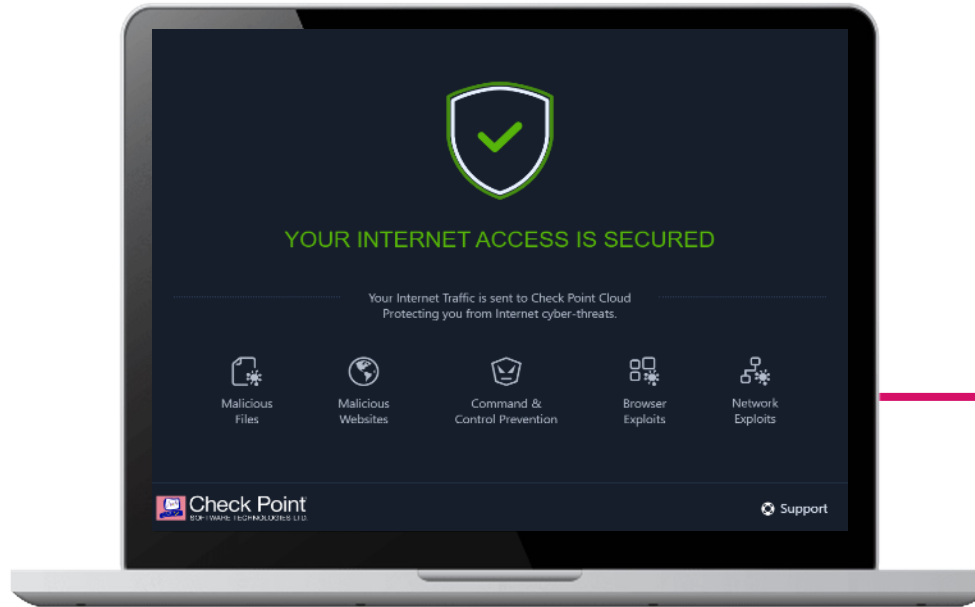


HARMONY CONNECT: ZTNA AND SASE



SECURE INTERNET ACCESS

 HARMONY CONNECT INTERNET ACCESS



Cloud Service



Secure Web Gateway Features



Threat Prevention

- Zero-day Sandboxing
- Intrusion Prevention System (IPS)
- Phishing prevention
- Malware and C2 bot prevention
- Full SSL Visibility



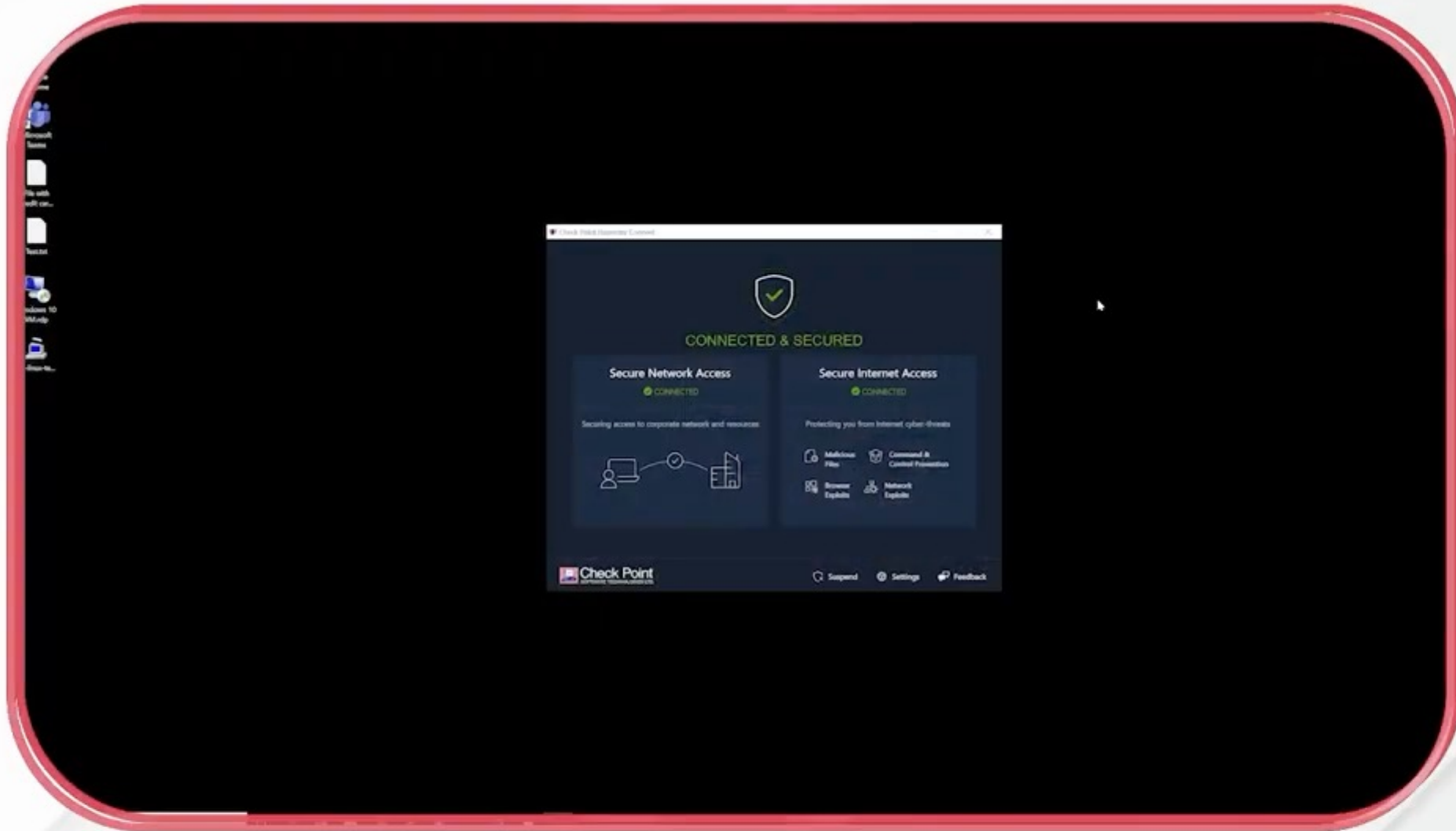
Access Control

- Cloud Firewall
- URL Filtering
- Application Control (8,600+ Apps)

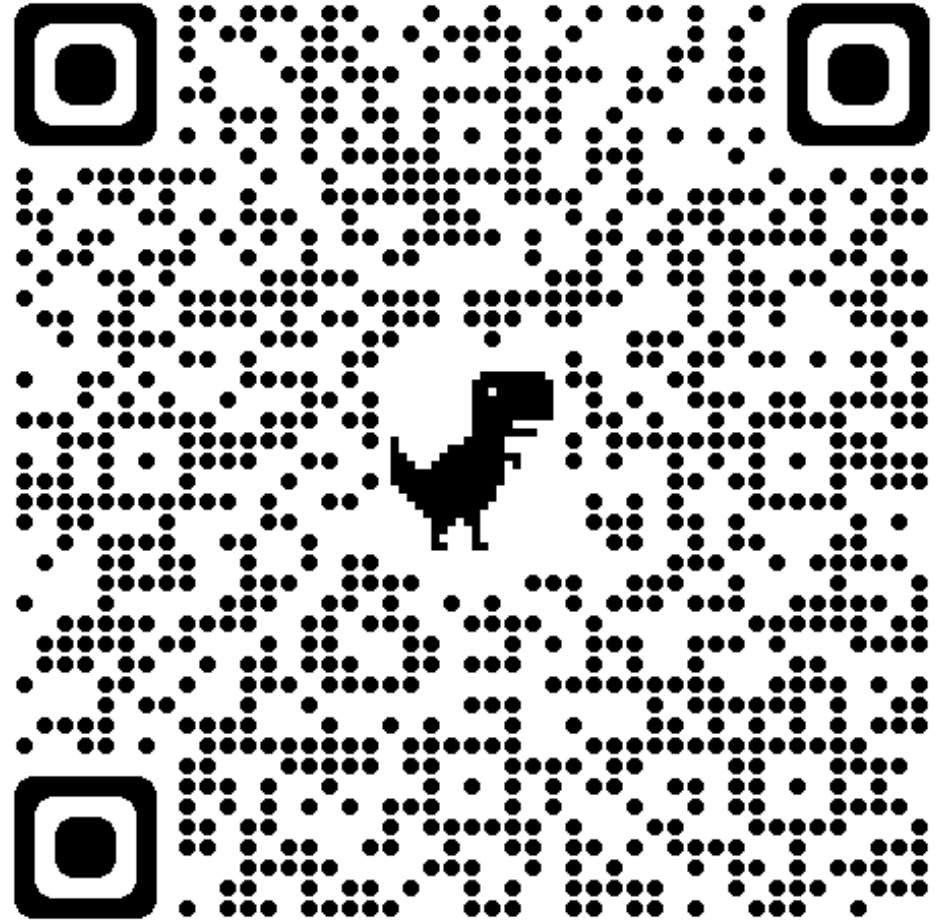


Data Protection

- Cloud DLP
- Granular Policy
- Predefined data types



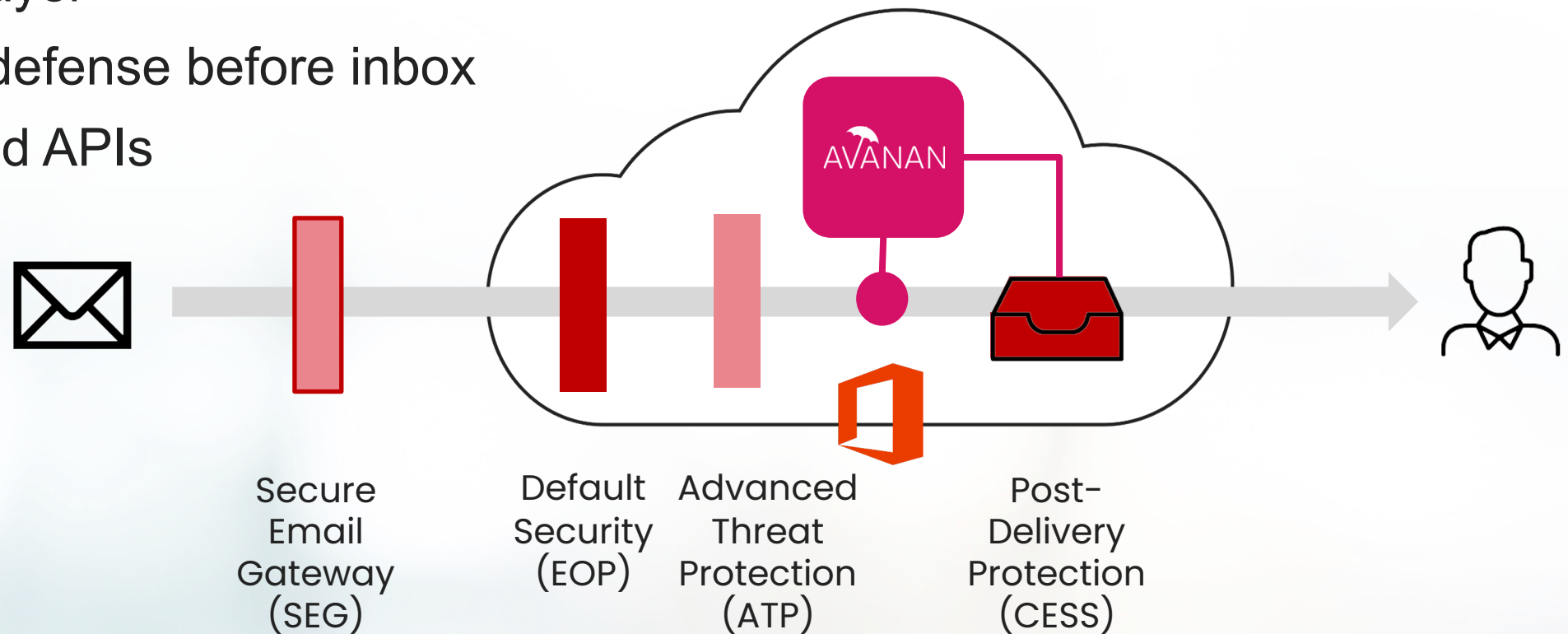
HARMONY CONNECT: SECURE INTERNET ACCESS



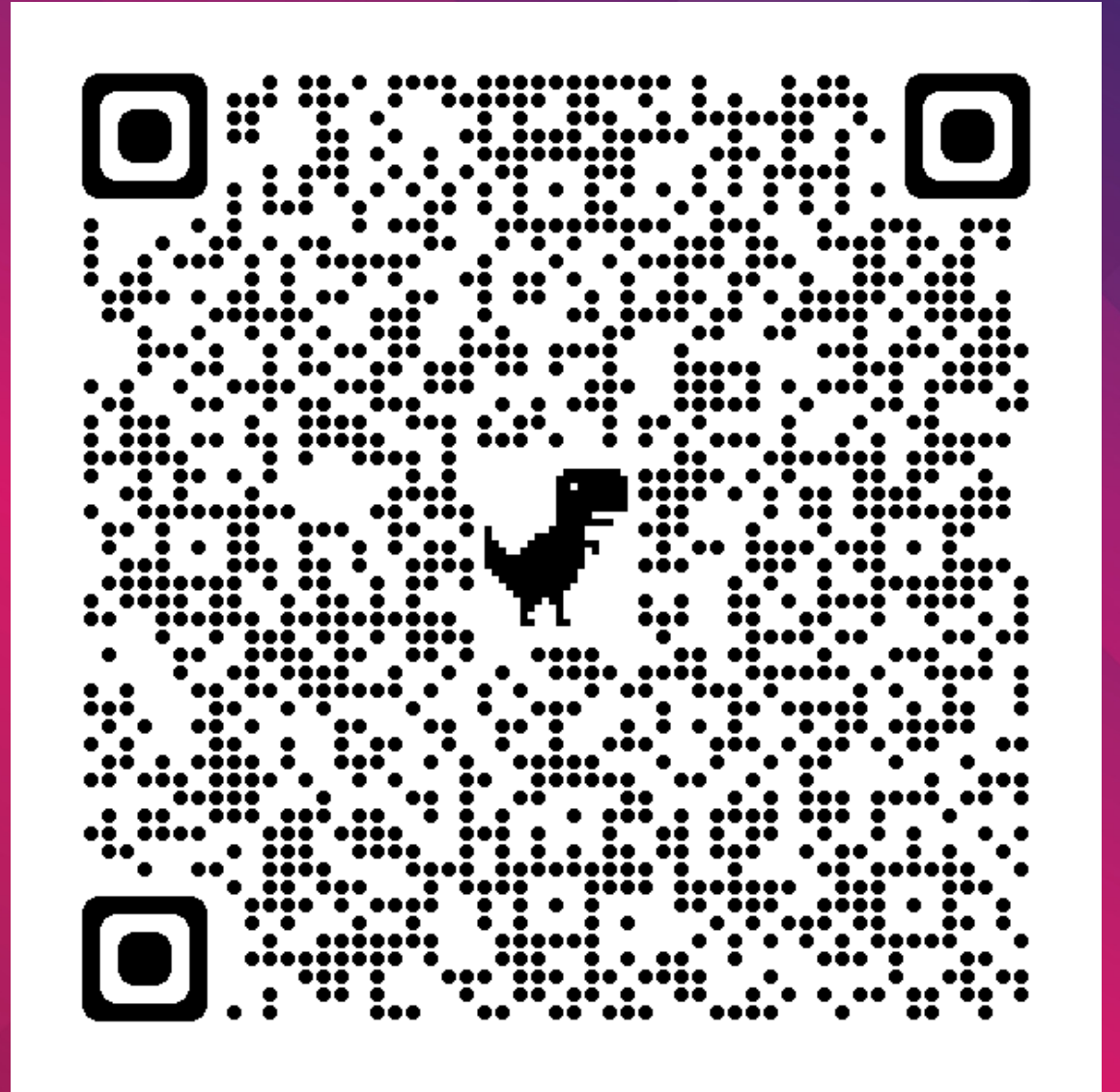
The Check Point Harmony Email & Collaboration Security Architecture

Avanan's Architecture

- Embedded Embedded within O365 as a layer
- Last line of defense before inbox
- Built on cloud APIs



DEEP DIVE INTO THE FUTURE OF EMAIL SECURITY



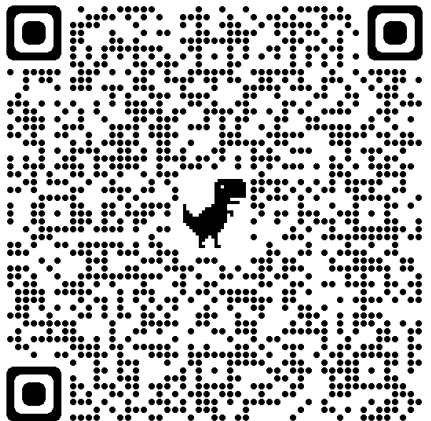
Threat Prevention Log Suppression Display

- It is extremely easy to miss the Suppressed Logs field if you are not looking for it!
- Note that the Suppressed Logs field value *is* shown in the Results Pane when looking at the list of logs, but it is smashed horizontally by default and difficult to spot, be on the lookout for a non-empty value here which is an important clue!

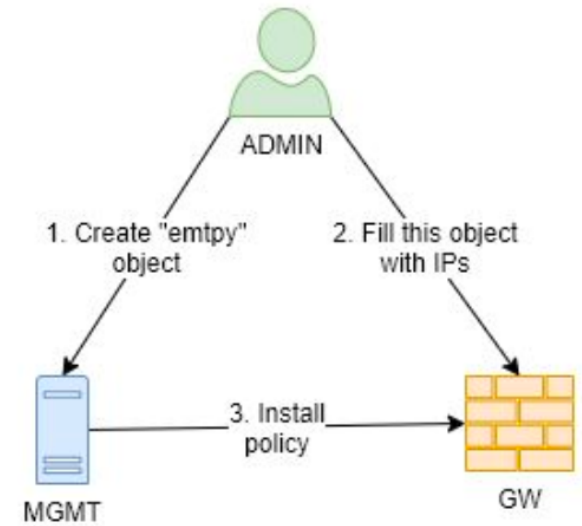
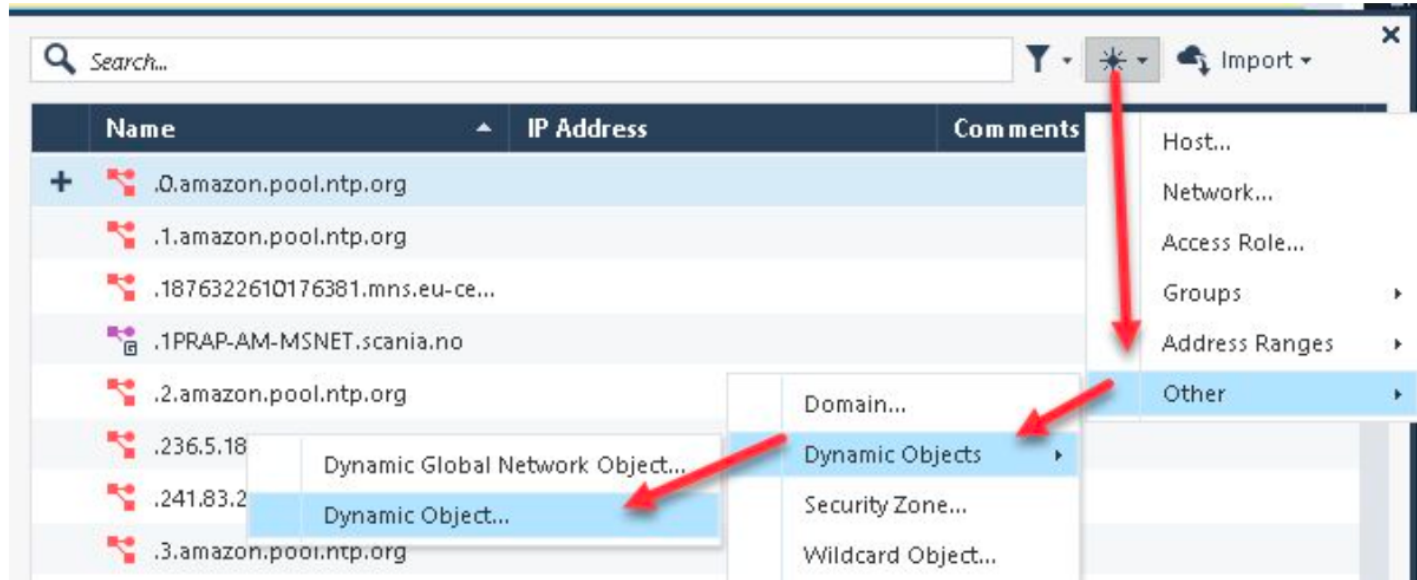
★ Queries | < > | ↺ | 🌐 | 🔍 All Time ▾ blade:ips or blade:Anti-Bot or blade:Anti-Virus

Showing first 150 results (109 ms) out of at least 1,950 results

Time	B..	A.	T..	Seve...	Con...	Su...	Perf...	Source	Source Machi...	Client
10 Dec 21, 11:41:17 PM						64		ip-10-132-5-...		
10 Dec 21, 11:41:17 PM						64		ip-10-132-5-...		
10 Dec 21, 11:41:17 PM						64		ip-10-132-5-...		
10 Dec 21, 11:41:17 PM						64		ip-10-132-5-...		
10 Dec 21, 11:41:17 PM						64		ip-10-132-5-...		
10 Dec 21, 11:41:17 PM						64		ip-10-132-5-...		
10 Dec 21, 11:41:17 PM								ip-10-132-5-...		
10 Dec 21, 11:41:17 PM								ip-10-132-5-...		

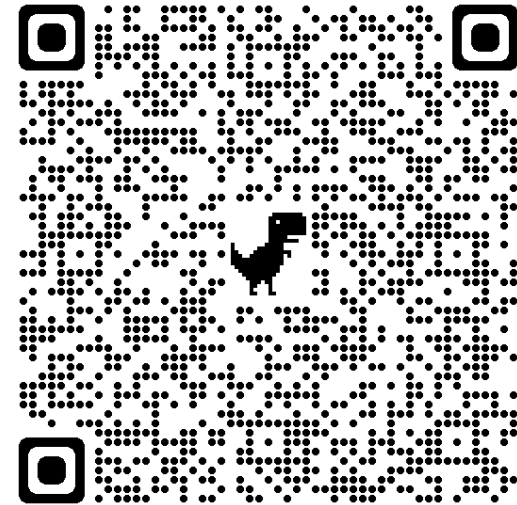


DYNAMIC OBJECTS - IMPLEMENTATION MGMT



Name	Source	Destination
Public blacklist blacklistde	openDBL_blocklistde	* Any
Public blacklist bruteforce	openDBL_bruteforce	
Public blacklist etknown	openDBL_etknown	
Public blacklist malware	openDBL_malware	

A red arrow points from the 'openDBL_blocklistde' source in the table to a pop-up window showing a dynamic object configuration for 'openDBL_blocklistde'.



AGENDA



- **NETWORK SECURITY AS A SERVICE ON AWS**
- **KUBERNETES AI MICROSEGMENTATION**
- **DEVELOPER FIRST SECURITY (SPECTRAL)**
- **AZURE VWAN**

Cloud Network Security as a Service

Network Segmentation Security **Made Easy!**



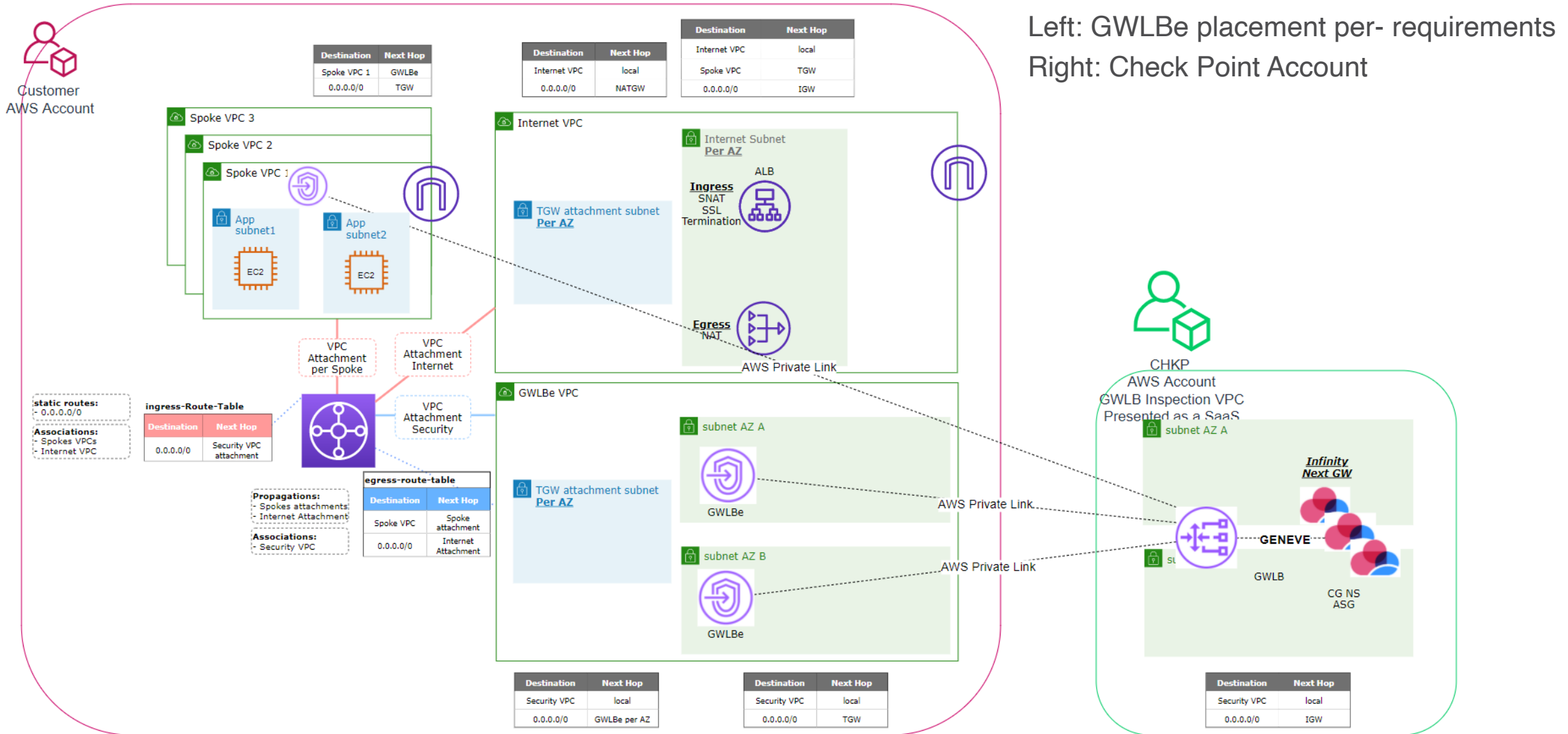
Cloud Network Security as a Service – Automated



- ✓ **10 minutes onboarding**
- ✓ **APIs first design**
- ✓ **Web UI manager**
- ✓ **Fully scalable, Highly available**
- ✓ **Policy automation**

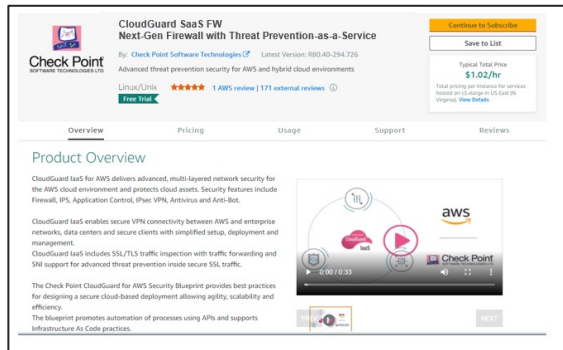


Customer deployment architecture



Customer Onboarding

AWS Marketplace page



Cloud Infra Account Creation



Cloud Infra App Selection



CloudGuard
Firewall-as-a-Service



Cross Account

- AWS <> CP cross account handshake



Service setup

- Cross account role creation
- GWLB / Endpoint association



Security Policy Setup

- Practices selection
- Setting triggers – logs
- Policy rules creation



Situational visibility

- Monitor status
- Logs visibility



Check Point Infinity Management Portal

The screenshot displays the Check Point Infinity Management Portal interface. The top navigation bar includes the user 'policyScriptUser', a search bar, and buttons for 'Feedback', 'Publish', 'Enforce', and 'Under Attack?'. The left sidebar contains navigation options: OVERVIEW, USERS & ACCESS, NETWORK, CLOUD, IOT, MONITOR, SUPPORT, GLOBAL SETTINGS, and APPROVERS. The main content area shows a table of active rules under the 'PRIORITY 2' tab. The table has columns for #, Source, Destination, Service, Action, Trigger, Enforcement, and Comment. The rules are organized into sections: VPC Data Store (Incoming and Outgoing), VPC Backend (Incoming and Outgoing), and VPC Frontend. The rule for VPC Frontend Incoming is highlighted in blue.

#	Source	Destination	Service	Action	Trigger	Enforcement	Comment
VPC Data Store							
Incoming							
1	VPC Backend	VPC Data Store	http	Allow	Log Trigger	AWS	
Outgoing							
1	VPC Data Store	AWS S3	https	Allow	Log Trigger	AWS	
2	VPC Data Store	AWS DocumentDB	https	Allow	Log Trigger	AWS	
3	VPC Data Store	VPC Monitoring	http	Allow	Log Trigger	AWS	
VPC Backend							
Incoming							
1	VPC Frontend	VPC Backend	http	Allow	Log Trigger	AWS	
Outgoing							
1	VPC Backend	VPC Data Store	http	Allow	Log Trigger	AWS	
2	VPC Backend	VPC Monitoring	http	Allow	Log Trigger	AWS	
VPC Frontend							
VPC Monitoring							

Registration for
EA is now open



www.checkpoint.com/nsaas





CLOUDGUARD K8S MICROSEGMENTATION

Add container-level access control to your K8s clusters
in a modern, automated & easy way

A large, colorful graphic on the right side of the slide. It consists of several overlapping, rounded rectangular bars in various colors (blue, green, yellow, purple, red) that radiate from a central point. In the center of this graphic is a large white circle with a thick red border. Inside the white circle, the text "CPX 360" is written in a bold, red, sans-serif font.

CPX
360

Why Microsegmentation in K8s?

K8s Microsegmentation is a **critical security layer**:

- Background: In K8s different Pods need to communicate with:
 - other pods/services (complex microservice architectures)
 - Internet (in- or outbound)
- Challenge: No default restrictions for pod-2-pod communication
- Risk: **If pod is breached -> high risk of lateral movement!**
- Solution: **Microsegmentation on pod/container-level for Zero Trust Network Security in K8s clusters**

CloudGuard K8s Microsegmentation Components

- **Nano Attachment:** lightweight library, added automatically to running containers. Monitors and enforces in- & outbound traffic to container. Asks the Nano Agent for policy decisions and caches results.
- **Nano Agent:** Holds the policy, receives 5-tuples from Nano Attachments for policy decisions, communicates with „Infinity Policy“ Mgmt, 1 agent/worker node
- **Attachment Deployment Agent:** Deploys Nano Attachments to each pod when started.
- **Discovery Agent:** Collects detailed info about the assets in the K8s cluster (pods, services, labels, ...) and provides it to the Mgmt

How is K8s Microsegmentation managed?

- **Infinity Policy:** SaaS Mgmt, integrated in „Infinity Portal“, manages
Manages Access Control policies, Zones, Agent Deployment Profiles, Learning
Provides Logs, Reporting, Learning, Visualization
- **Infinity Portal:** SaaS Mgmt for all Check Point products
- **API support** (GraphQL)
- **Infinity Policy provides unified next-gen mgmt** also for other solutions:
CloudGuard AppSec, NSaaS for AWS as well as Quantum IOT Protect

Get started here: <https://portal.checkpoint.com>

Deployment

- **Create new K8s cluster asset** in Infinity Policy, this will generate also an agent deployment profile:
- **Download and install the helm chart** as shown in the agent deployment profile:
- Restart all pods eventually running during deployment once so they also get the Nano attachment added.

Download & Deployment



1. Enforce Policy if not done already.

2. Download helm chart using the following command:

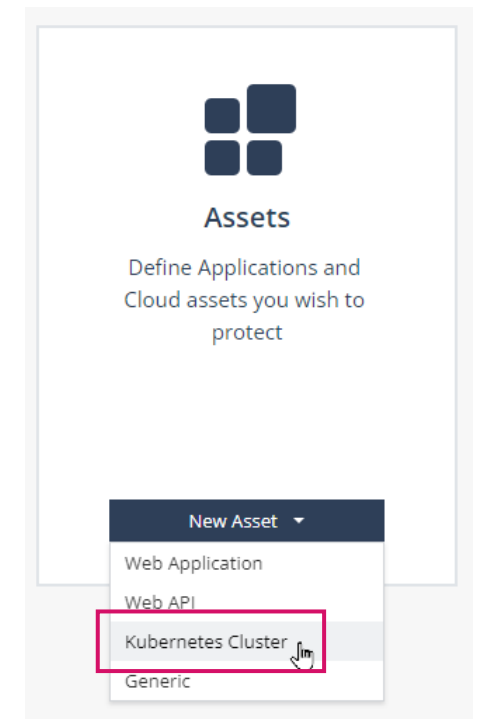
```
wget https://github.com/CheckPointSW/Infinity-Next/raw/main/deployments/cp-k8s-access-control.tgz -O cp-k8s-access-control.tgz
```

3. Choose your cluster name:

eks-cluster-log4j

4. Run this to deploy the helm chart on your cluster:

```
helm install cp-k8s-access-control.tgz --name-template "cp-k8s-access-control" \--set "token=*****" \--set "clusterName=eks-cluster-log4j" \--set "activeNamespace=specific"
```



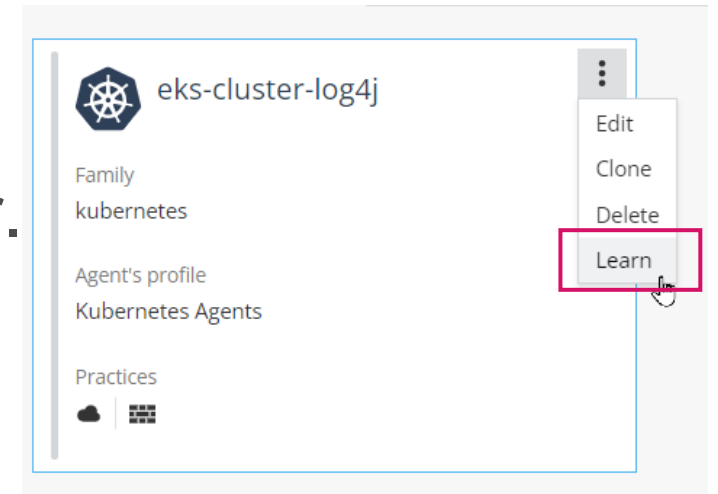
ML-based Learning

- Once deployed agents connect back to the mgmt:

✓ 3 agents successfully connected. [See agent details](#) [Monitor security events](#)

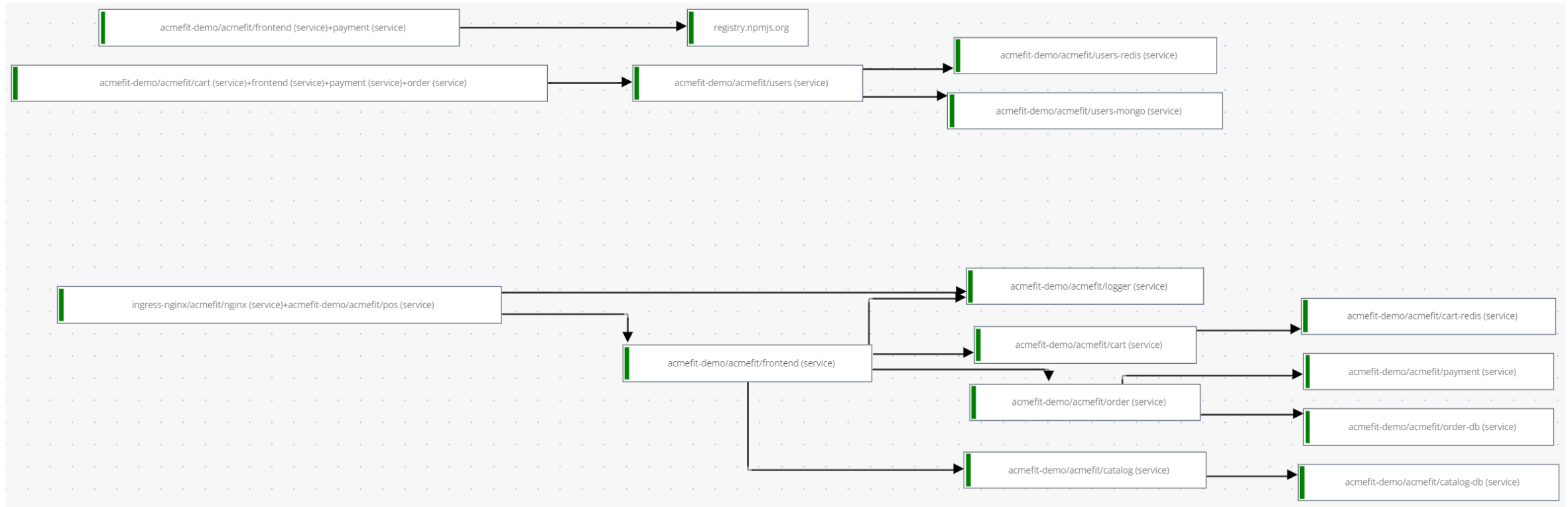
- Now system starts logging traffic in K8s cluster. Once typical traffic patterns have been observed, activate the „Learning“:
- ML-engine then performs automatic learning on traffic observed so far. Sends notification when done:

✓ Learning engine has created 16 new suggested zones and 20 new suggested rules for cluster: Acme-Fitness-Cluster



Automatic Visualization

- Learning Engine automatically suggest „Zones“ (dyn. objects for K8s asset grouping), „Rules“ (based on Zones) and visualizes them:



Suggested Zones

- Suggested Zones can be reviewed, adjusted if needed and turned active.
- They are based on dyn. queries matching e.g.:
 - *namespace*,
 - *labels*,
 - *clusterName*, ...

Zone	Family	Group	Profile	Protection
acmefit-demo/acmefit/cart (service)	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/cart (service)+frontend	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/cart-redis (service)	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/catalog (service)	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/catalog-db (service)	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/frontend (service)	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/frontend (service)+pa	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/order (service)	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/order-db (service)	Generic		Kubernetes Agents	🛡️
acmefit-demo/acmefit/payment (service)	Generic		Kubernetes Agents	🛡️

Basic

Name: acmefit-demo/acmefit/cart (service)

Tags: No tags

Profiles: Kubernetes Agents

Query

- group: service
- containerLabels.app: acmefit
- containerLabels.service: cart
- namespace: acmefit-demo
- clusterName: Acme-Fitness-Cluster

Suggested Access Control Policy Rules

- Suggested Rules can be reviewed, adjusted if needed and activated.
- SRC and DST fields use the dynamic Zones.

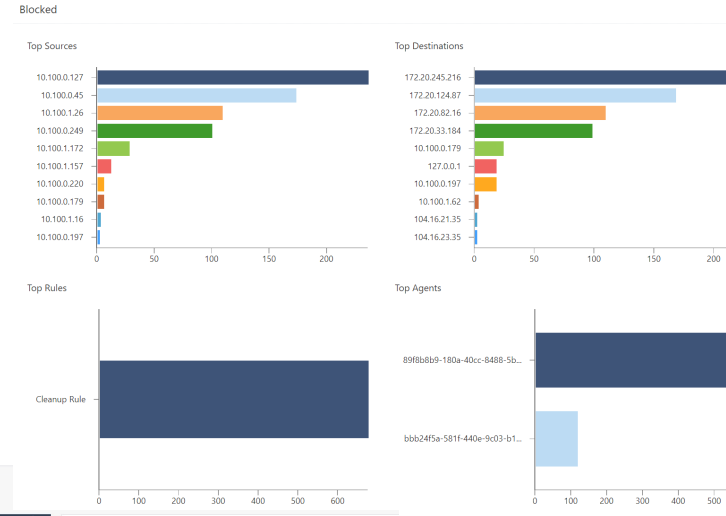
#	Source	Destination	Service	Action	Trigger	Enforcement	Comments
6	acmeft-demo/acmeft/order (service)	acmeft-demo/acmeft/payment (service)	serv	Allow	Log Trigger	Kubernetes Agents	Auto-generated rule
7	acmeft-demo/acmeft/frontend (service)	acmeft-demo/acmeft/cart (service)	serv	Allow	Log Trigger	Kubernetes Agents	Auto-generated rule
8	acmeft-demo/acmeft/order (service)	acmeft-demo/acmeft/order-db (service)	serv	Allow	Log Trigger	Kubernetes Agents	Auto-generated rule
9	ingress-nginx/acmeft/nginx (service)+acm	acmeft-demo/acmeft/frontend (service)	serv	Allow	Log Trigger	Kubernetes Agents	Auto-generated rule

Logging and Reporting

- There's detailed Logs/Reports:

Infinity Next Access Control > Cleanup Rule

Time	Agent UUID	Event Prio...	Event Seve...	Rule Name	Security Act...	Event Name
Jan 14, 2022 11:56:13 AM	bbb24f5a-581f-440e-9c03-b1453be41f33	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:20:49 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:45 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:21 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:21 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:21 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:20 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:20 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:20 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:19 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:19 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:19 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:19 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:17 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 11:19:17 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:51:35 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:51:35 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:39:16 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:39:16 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:39:16 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:25:30 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:25:23 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:25:20 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:25:18 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...
Jan 14, 2022 10:25:17 AM	89f8b8b9-180a-40cc-8488-5b4cd3e2c7...	High	Medium	Cleanup R...	Drop	Connection was dropped on rulebase mat...



Card

Event Info

Event Time: 2022-01-14T10:56:13.550

Log Id: 350

Event Name: Connection was dropped on rulebase match

Event Severity: Medium

Event Priority: High

Event Type: Event Driven

Event Level: Log

Event Audience: Security

Event Frequency: 0

Agent UUID: bbb24f5a-581f-440e-9c03-b1453be41f33

Practice Type: Access Control

Policy

Security Action: Drop

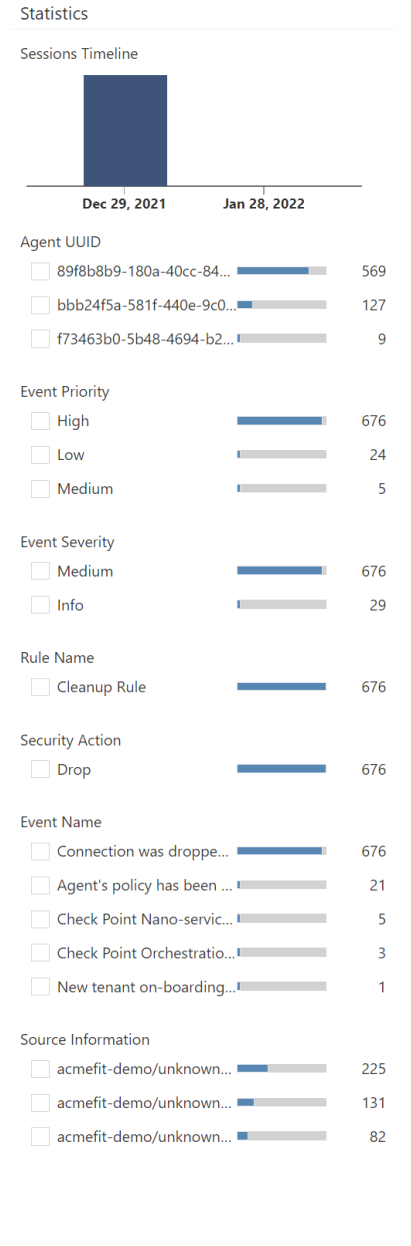
Rule Name: Cleanup Rule

Trigger Name: Cleanup Trigger

Transaction

Source Information: ingress-nginx/unknown/unknown/unknown

Destination Information: acmeft-demo/unknown/pos





DEVELOPER-FIRST CLOUD SECURITY / SPECTRAL



Secrets. Misconfiguration. Data privacy.

Oops! 

Starbucks Devs Leave API Key in GitHub Public Repo

By Ionut Ilaşcu

December 31, 2019 01:05 PM

One misstep from developers at Starbucks left exposed an API key that could be used by an attacker to access internal systems and manipulate the list of authorized users.

The severity rating of the vulnerability was set to critical as the key allowed access to a Starbucks JumpCloud API.

Imperva: Data Breach Caused by Cloud Misconfiguration



Author:
Tara Seals

October 11, 2019

Hackers were able to steal an AWS administrative API key housed in a compute instance left exposed to the public internet.

Imperva, the security vendor, said this week that a misconfiguration of an Amazon Web Services (AWS) cloud instance allowed hackers to exfiltrate information on customers using

INSIDE INTEL —

More than 20GB of Intel source code and proprietary data dumped online

Codecov breach impacted 'hundreds' of customer networks: report

Updated: Reports suggest the initial hack may have led to a more extensive supply chain attack.



By Charlie Osborne for Zero Day | April 21, 2021 -- 09:45 GMT (10:45 BST) | Topic: Security

DevOps tool provider Codecov's security breach has impacted "hundreds" of clients according to new information surrounding the incident.

MORE FROM CHARLIE OSBORNE



Security
Bizarro banking Trojan
surges across Europe

HOME ABOUT THE AUTHOR ADVERTISING/SPEAKING

Retailer Orvis.com Leaked Hundreds of Internal Passwords

November 11, 2019

28 Comments

Orvis, a Vermont-based retailer that specializes in high-end fly fishing equipment and other sporting goods, leaked hundreds of internal passwords on Pastebin.com for several weeks last month, exposing credentials the company used to manage everything from firewalls and routers to administrator accounts and database servers, KrebsOnSecurity has learned. Orvis says the exposure was inadvertent, and that many of the credentials were already expired.

Spectral Value:

Prevent Costly Mistakes in Build Time

What we are solving: Ensure a secure development process for a dev team enforced by CI. Harden CI/CD processes by eliminating common mistakes.



Benefits:

Integrate with your CI

- SpectralOps integrates with all leading CI systems with built-in support for Jenkins, Azure and others.

Detect as early as a pre-commit

- When working with Git, employ our pre-commit, Husky and custom hooks to automate early issue detection.

Install your build systems plugin

- Scan during your static builds with native plugins for JAMStack, Webpack, Gatsby, Netlify and more.

Spectral Value:

Developer First

What we are solving: Developer friendly security which can be driven from your command line, is extendable, and customizable.



Benefits:

Scan at record time

- Average sized repo only takes seconds to scan.

Leverage zero-config

- Runs securely by default with no special configuration needed.

Secure by design

- Scan your GitHub, GitLab, Bitbucket, Npm, and more without granting any permissions of any kind.

Spectral use cases: Shift-Left done right



Shift-left Infra & Code Scanning

Scan code, configuration, binaries, or any other material in your codebase. Uncover issues that are visible and hidden from plain sight.



Shift-left Source Controls & CI/CD Security

Ensure a secure development process for a dev team enforced by CI. Harden CI/CD processes by eliminating common mistakes.



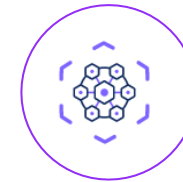
Shift-left Source Code Leakage Detection

Mitigate secret leaks caused by bad credentials hygiene and human error



Shift-left Code Tampering Prevention

Easy and safe shift-left provenance, verifying runnable scripts and binaries. Plug your own malware/threat detection



Shift-left Hard Coded Secret Detection

Map and monitor hidden sensitive assets such as codebases, logs, and other sensitive intellectual property that belong to your organization, but were left exposed in public facing repositories.

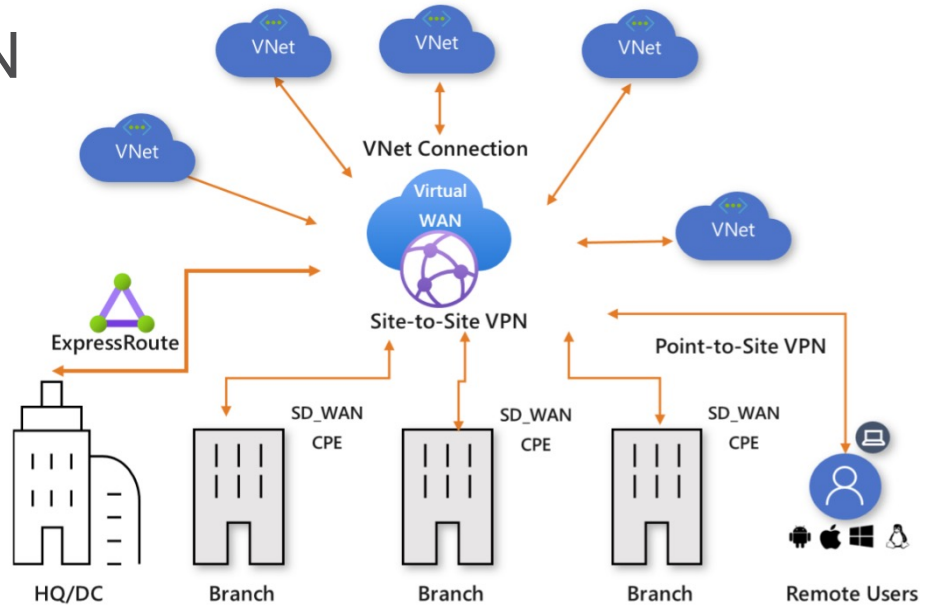


SECURING AZURE VWAN HUB

CPX
360

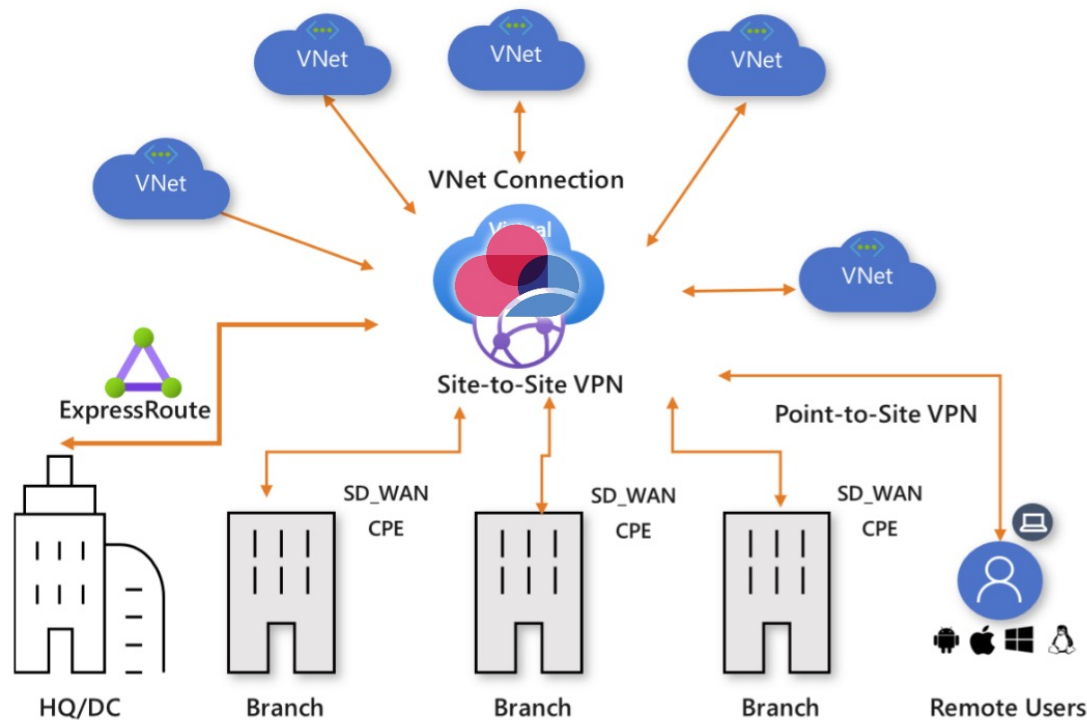
Azure vWAN Overview

- Hub and Spoke architecture
The Hub managed and hosted by Azure as a service.
- Connectivity to workloads distributed globally in virtual networks:
 - Working at home and mobile users using point-to-site VPN
 - Main campuses and data centers using ExpressRoute
 - Branch offices using site-to-site VPN



Azure vWAN integration

- CloudGuard Gateway integrates into vWAN hub to inspect any-to-any traffic
- The CloudGuard Gateway is deployed into an Azure managed subscription in a high availability mode



Benefits

- Ability to inspect traffic inside Azure vWAN
- Simplified and managed deployment
- No lifecycle management
- Built-in HA
- No routing configuration
- Streamlined joint support

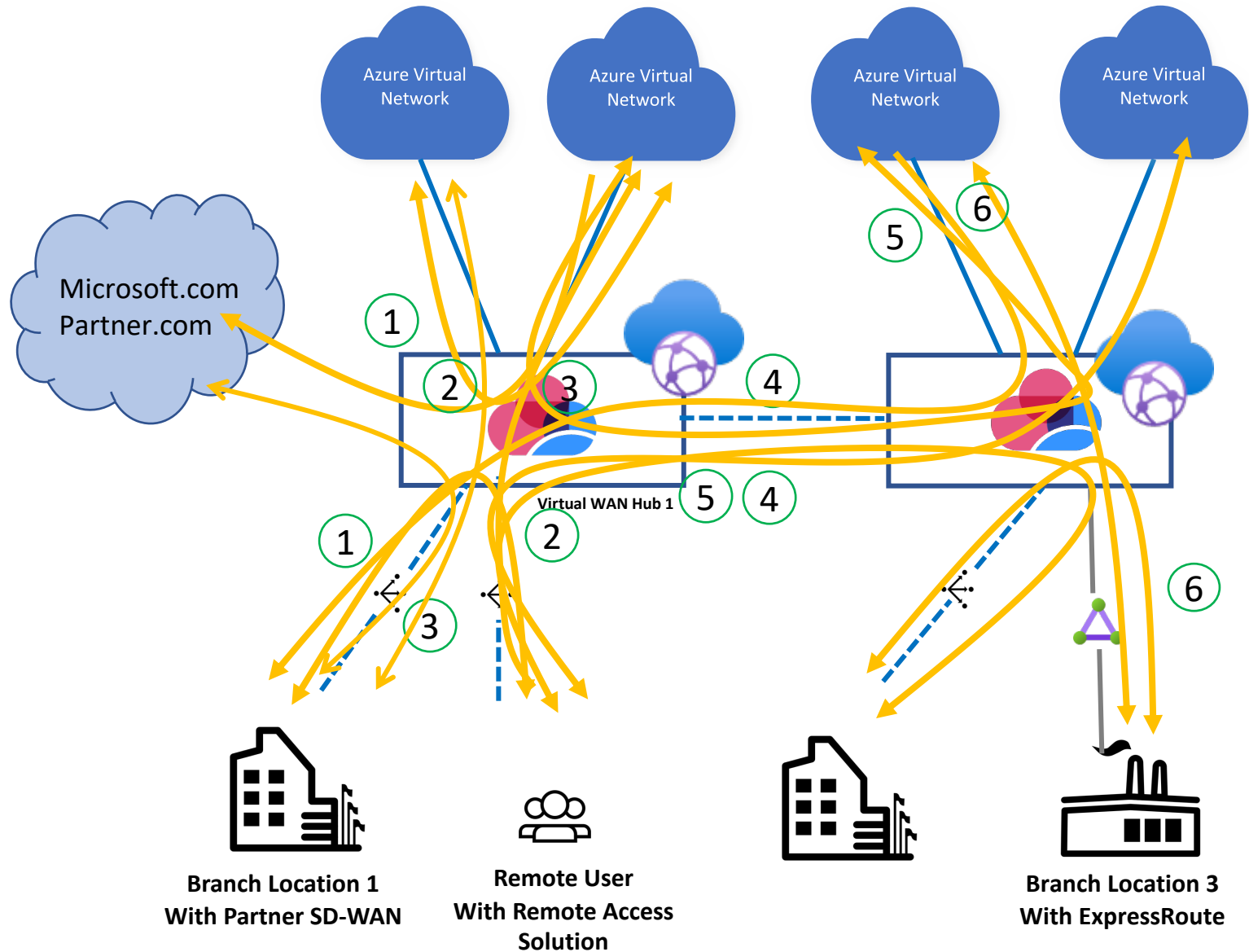
Use Cases

Single Virtual Hub

- ① East-West Branch to Branch
East-West VNet to VNet
- ② North-South Branch to VNET
North-South VNET to Branch
- ③ North-South Branch to Internet
North-South VNet to Internet

Inter-hub and Hybrid Scenarios

- ④ East-West Branch to Branch
East-West VNet to VNet
- ⑤ North-South Branch to VNET
North-South VNET to Branch
- ⑥ Azure ExpressRoute to VNET
Azure ExpressRoute to SD-WAN



QUESTIONS?

THANK YOU

Valeri (VAL) Loukine

Cyber Security Evangelist | Community Lead

CheckMates Live Virtual Series 2022