

# CPX 360 Webinar

## 27. Juni 2019



### CYBER SECURITY 2020 AND BEYOND

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WELCOME TO THE FUTURE OF  
**CYBER SECURITY**



CLOUD • MOBILE • THREAT PREVENTION

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### ....Cyber Security faces some real challenges



**11% more** was spent compared to the year before for a worse result

Sleeping Positions



**46%** of all companies were affected  
**36%** of all consumers globally lost data

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Source: TrustArc 2018 Cyber Threat Report; Business Insider Data Science

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**#1 Detection mentality**

**#3 Too much complexity**

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Too many different solutions

	2007	2018
Threat Actors	<50	>1,000
Threat Types	<50	>1,000,000
Alerts / Day (Average Per Firm)	<1,000	>1,000,000
Security Vendors	<100	>2,600

Source: Former CIA director Gen (Ret) David H. Petraeus

Solutions do not cooperate –  
no shared intelligence or architecture

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1990 2000 2010 2015 2017

# HOW CAN WE ADDRESS THIS TREND?

**Consolidation: We've done it before**  
Tightly coupled but monolithic Security Services and Security Delivery

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Antivirus

Email Security

VPN

App. Control

Firewall

Sandboxing

IPS

URL Filtering

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BUT WE NEED TO  
CONSOLIDATE  
BEYOND THE NETWORK

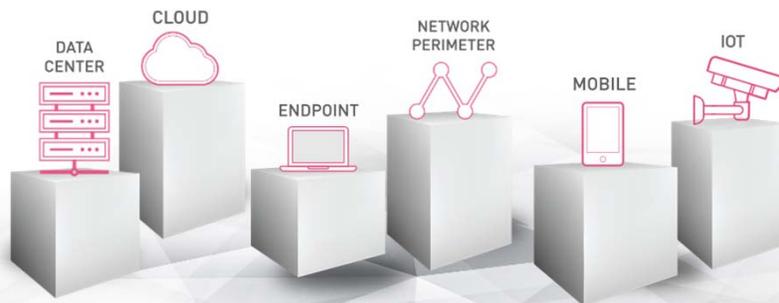
### Everywhere is under attack



#### 16 ATTACK VECTORS



- 26 SECURITY TECHNOLOGIES**
- Firewall
  - Identity Access Management
  - Remote Access
  - DDOS
  - Site to Site IPSec
  - URLF
  - App Control
  - IPS
  - WAP
  - Anti Virus
  - Anti Bot
  - File Emulation & Anti-Exploit
  - File Extraction
  - Anti Ransomware
  - DLP
  - Doc Security
  - Phishing
  - Account Take Over
  - Man in the Middle
  - Password Leak
  - Micro Segmentation
  - SSL & TLS Inspection
  - Compliance
  - Application Scan
  - Disk & Media Encryption
  - Forensics

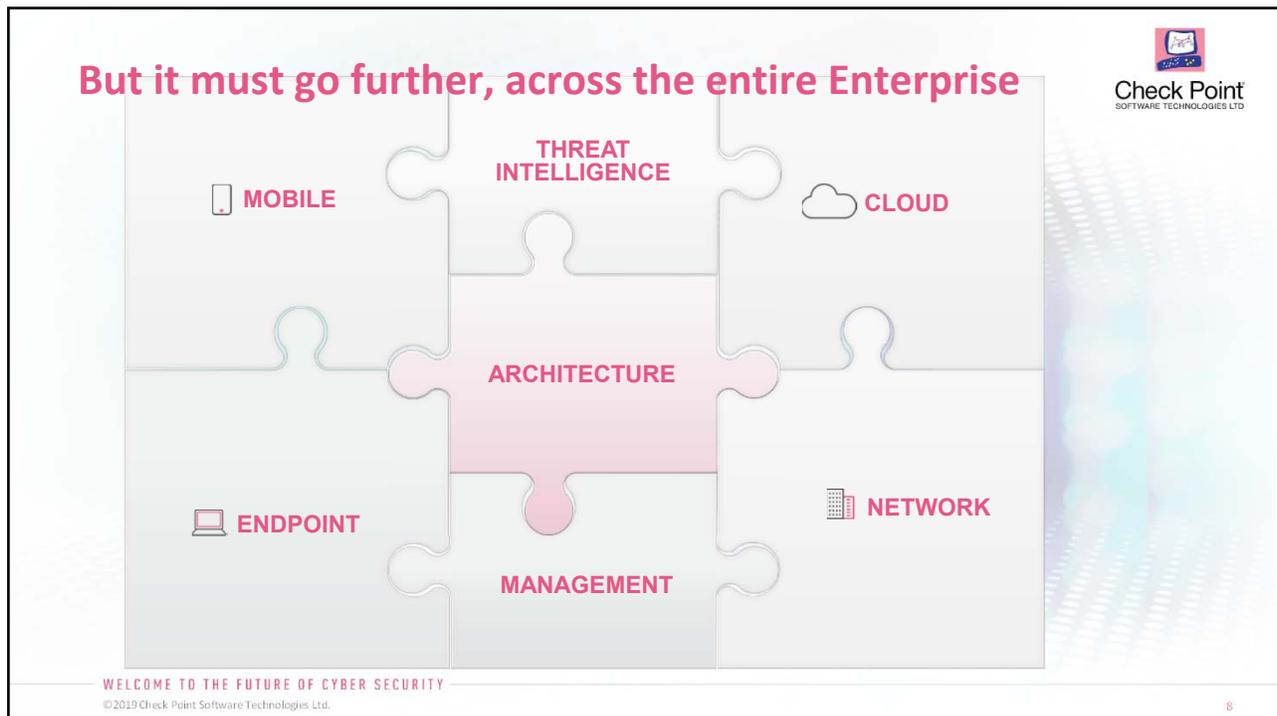


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**Business Email** **Perimeter** **End Point** **Mobile** **Web Browsing** **Data Center** **Cloud IaaS** **Cloud SaaS** **Messaging Apps** **Branch Office** **Web Server** **IoT** **USB Storage** **Database** **FTP/File Share** **Private Email**

**MOBILE**

- SandBlast Mobile
- App Protection
- Network Protection
- Device Protection
- Capsule Workspace/ Docs
- Remote Access
- Secure Business data
- Protect docs everywhere

**THREAT INTELLIGENCE**

THREATCLOUD

**CLOUD**

**Applications**

- CloudGuard SaaS
- Zero-Day Threat Protection
- Sensitive Data Protection
- End-to-end SaaS Security
- Identity Protection

**Infrastructure**

- Advanced Threat Prevention
- Adaptive Security
- Automation and Orchestration
- Cross Environment Policies, Remediation

**ENDPOINT**

- SandBlast Endpoint
- Access/Data Security
- Threat Prevention
- Anti-Ransomware
- Forensics
- Access Control
- Secure Media
- Secure Documents

**MANAGEMENT**

R30 Consolidated Security Management

**NETWORK**

**Headquarters**

- Access Control
- Multi Layered Security
- Advanced Threat Prevention
- Data Protection

**Branch**

- Access Control
- Multi Layered Security
- Advanced Threat Prevention
- Wi-Fi, DSL, PoE Ready

**CHECK POINT INFINITY**

"Multivector Controls, Unified Architecture"

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### Threat Intelligence

**Industry Feeds**

- URLs, Hashes, Domains
- Virus Total indicators

**Collaboration**

- Cyber Threat Alliance

**Data Mining**

- Campaign Hunting

**THREATCLOUD** Threat Intelligence

**Community**

- CERTS
- Sensors
- Malware Research
- Event Analysis

**AI**

**Analysts**

**200** researchers & Analysts

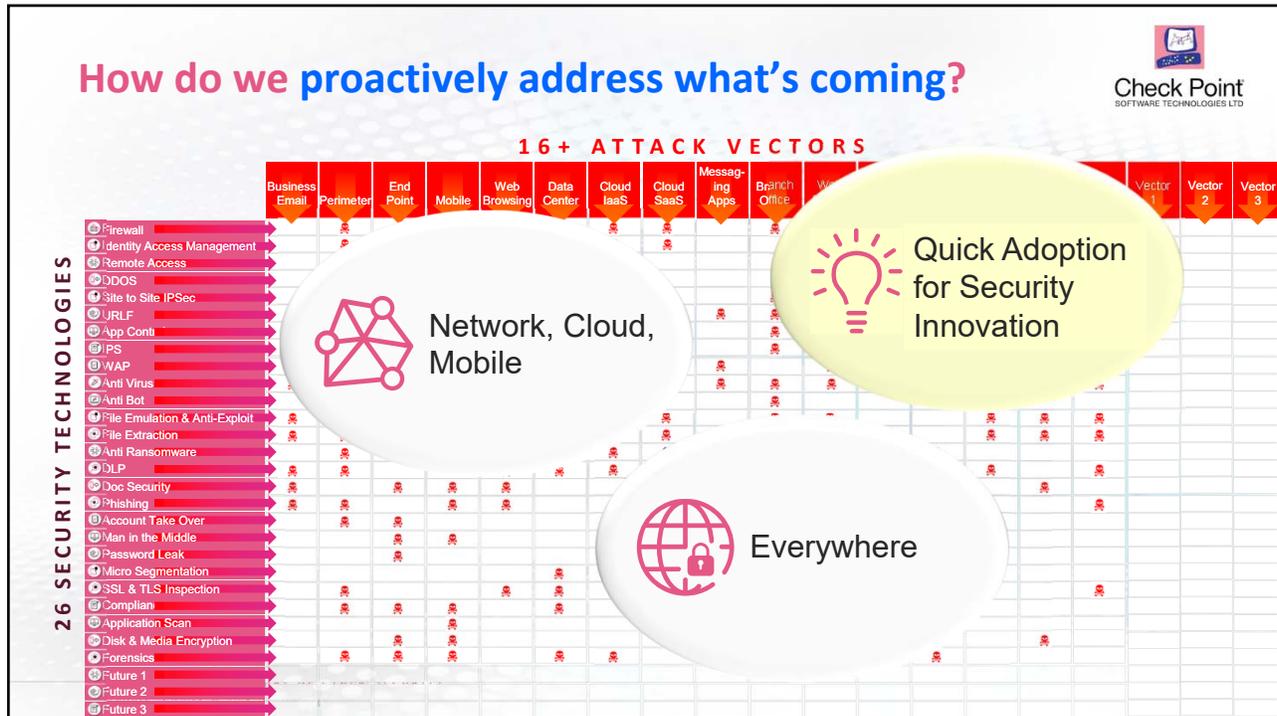
**cp|r>** CHECK POINT RESEARCH

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How do we proactively address what's coming?

**October, 24th 2018** – Aquisition of **Dome9** to Transform CloudSecurity

**January, 14th 2019** – Aquisition of **ForceNock**, WebApplication and API Protection

**January, 22nd 2019** – Launch of **Maestro**, the **Industry's First Hyperscale Network Security Solution**, and New Ultra-Scalable Gateways

Quick Adoption for **Security Innovation**

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### How do we proactively address what's coming?



June, 06th 2018 – Introduction of 16000 and 26000 Series Security Gateways

More to come this year

Much more 😊



Quick Adoption for Security Innovation

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## CloudGuard Suite



Preventing attacks on SaaS applications and cloud-based email



Public Cloud - Access control and advanced threat prevention



Controller - Adaptive security for all major cloud providers



Private Cloud - Advanced threat prevention for East-West and North-South traffic

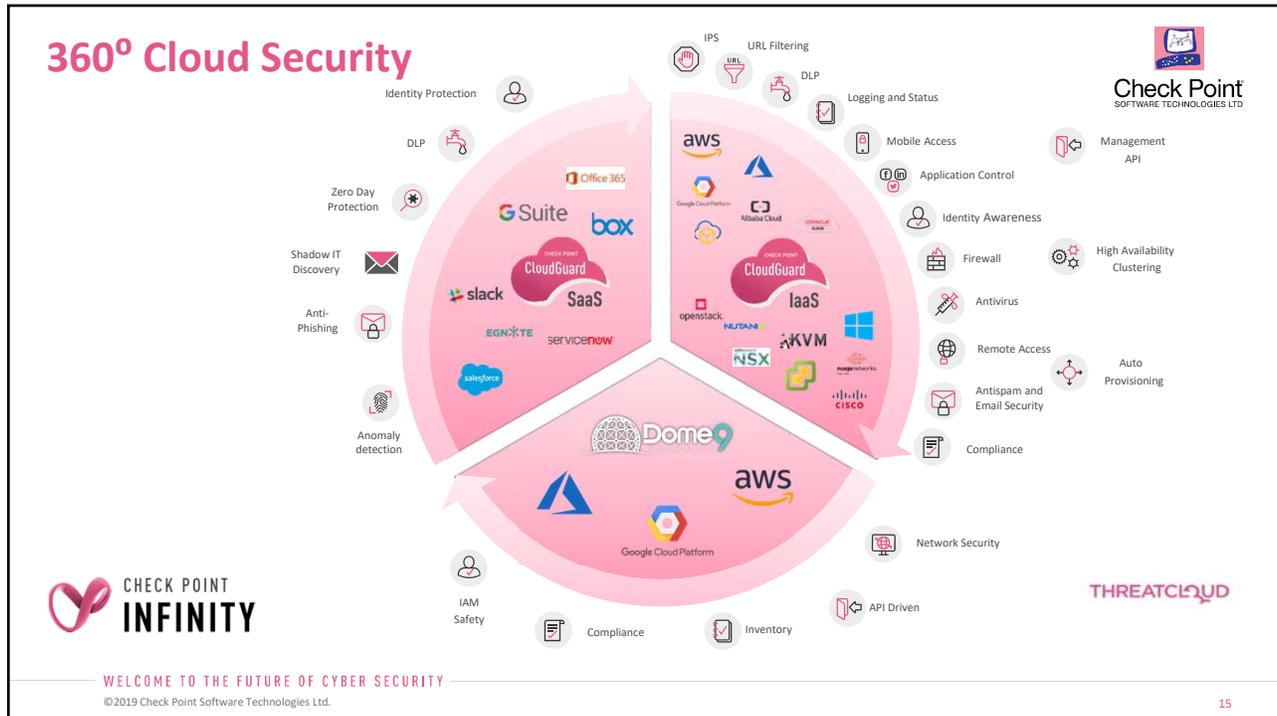


Quick Adoption for Security Innovation

...ance  
...ence,  
network security

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### The Check Point CloudGuard Family Now Includes Dome9

Quick Adoption for Security Innovation

Security for the Public Cloud Control Plane,  
Delivered as a Service for

aws Microsoft Azure Google Cloud

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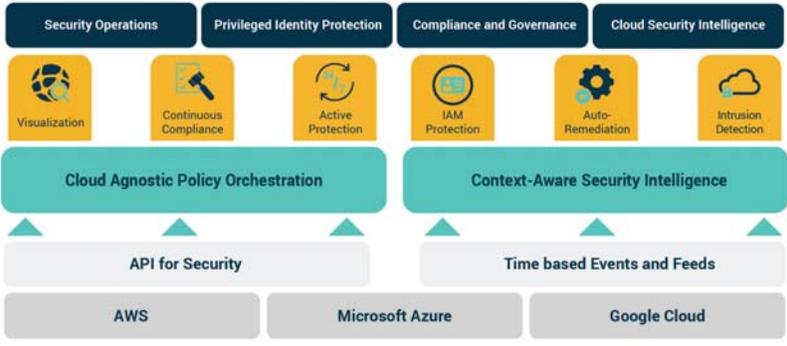


### Full Security Visibility & Control



Protecting your Cloud workloads and services is no longer complex  
Get full security visibility & control with continuous compliance

-  Network Security
-  Continuous Compliance
-  Privileged Identity Protection
-  Cloud Threat Intelligence



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Quick Adoption for  
Security Innovation

# MAESTRO

## A Hyperscale Network Security Solution



**Security of Hyperscale**

On-demand expansion available to gateways of all sizes



**Operational Supremacy**

Opening up new, simple ways to architect and manage cyber security



**Cloud-Level Resiliency**

Delivering the highest standard of resiliency with Telco-Grade technology

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Scalability has never been so easy!



**MAESTRO  
HYPERSCALE ORCHESTRATOR**



**6800 Security Gateway**

450 Gbps

↑

**Up to 52 appliances**

26.7 Gbps  
17.8 Gbps  
8.9 Gbps

Threat Prevention

Fully Operational within 6 minutes

### Security Gateway Features

	16000 Turbo	26000 Base	26000 Plus
<b>Gen V Security</b> <small>Performance with Full Threat Prevention including SandBlitz</small>	16.4 Gbps	24 Gbps	24 Gbps
<b>Network Interfaces</b>	4 Expansion Slots Up to 100 GbE interfaces	8 Expansion Slots Up to 100 GbE interfaces	8 Expansion Slots Up to 100 GbE Interfaces
<b>RAM</b>	Up to 128GB 64GB Default	Up to 128GB 48GB Default	Up to 128GB 96GB Default
<b>LOM</b>	Included	Optional	Included
<b>Storage</b>	Dual SSD	Single HDD	Dual SSD
<b>Virtual Systems</b>	5 included Up to 250 supported	Up to 250 supported	
<b>Power Supply Unit</b>	Redundant Dual		Redundant T



Quick Adoption for  
Security Innovation

## 26000

16000 and 26000 Position in Product Lineup



THREAT PREVENTION THROUGHPUT



STEP UP TO  
GEN V

Large Enterprise Networks

Data Centers

Hyperscale Networks & Data Centers

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# ARCHITECTURE EVOLUTION: 2020 AND BEYOND

## The Emerging Threat: Gen VI Attacks

Protection OF IoT / Protection FROM IoT



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**Emerging Scalability Challenge** For typical 10,000 user Enterprise



**TODAY**

**Data Center Centric**

10X  
30 years

11,000 Secured Objects

5 Devices/User

Scale to 100k+

**2020+**

**Cloud Centric**

100,000 Secured Assets

10X  
2 years

50 Devices/User

Scale to 1B+

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The slide illustrates the scalability challenge for a typical 10,000 user enterprise. It compares the current state (Today) with the projected state (2020+). Today's environment is data center centric, with 11,000 secured objects, 5 devices per user, and a scale to 100k+. It is noted that this state is 10X more secure than 30 years ago. The 2020+ environment is cloud centric, with 100,000 secured assets, 50 devices per user, and a scale to 1B+. This state is 10X more secure than 2 years ago. The slide includes icons for various devices like cameras, phones, and laptops, and a background image of a server room.

**IP Connected Industrial Systems**



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The slide shows an industrial facility with various tanks and structures. It features several circular callouts: one showing a valve with an IP icon, another showing a person using a tablet with a Wi-Fi icon, and another showing a gear with a Wi-Fi icon. The background is a large industrial plant with many towers and pipes.

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### IP Connected Medical Devices



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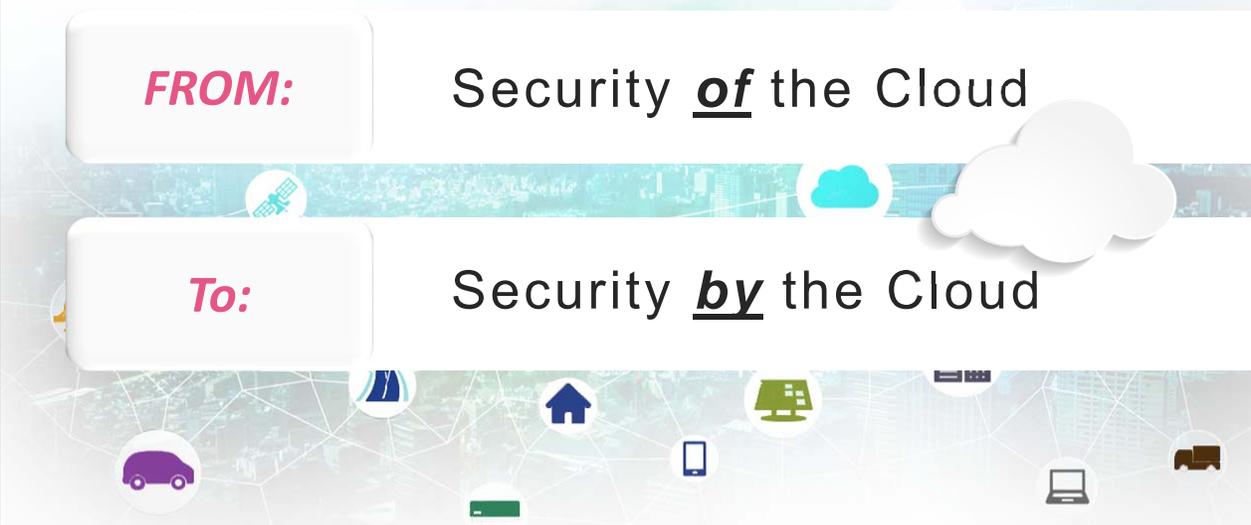
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### We need to shift our thinking...

**FROM:** Security of the Cloud

**To:** Security by the Cloud



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### 2020+: Security Architecture



## SECURITY DELIVERY

## SECURITY SERVICES

**Hybrid/Cloud Delivered Security Services and Security Delivery**

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### 2020+: Security Architecture

#### Hybrid/Cloud Delivered Security Services and Security Delivery



#### SECURITY DELIVERY

#### SECURITY SERVICES



**SECURITY DELIVERY** components:

- Embedded Security for IoT
- Secure Endpoints
- Nano Gateways for IoT / small networks
- Secure Mobile Devices
- Secure Infrastructure AAS (Google Cloud, Azure, AWS)
- Secure Software AAS

**SECURITY SERVICES** components:

- A.I.
- Access Policy
- DLP
- Anti Phishing
- File Emulation
- Threat Extraction
- IP Reputation
- URL Reputation
- App. Control

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### The Cloud Security Services

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**ATTACK VECTORS**

Business Email	Perimeter	End Point	Mobile	Web Browsing	Data Center	Cloud IaaS	Cloud SaaS	Messaging Apps	Branch Office	Web Server	IoT	USB Storage	Database	FTP/ File Share	Private Email
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- Unified Security
  - Business-wide control
  - Security decoupled from Application
- Reduced Complexity; Lower TCO
- Must be an Open Architecture

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### Gen VI Attacks **A.I.**

AI Enabled Cloud Security Services

#### GEN VI Protection

- IoT hyperscale
- Open interoperability
- Ubiquitous
- Instantly **adaptable**

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# CHECK POINT INFINITY

ARCHITECTURE TO MAXIMIZE PREVENTION



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## 25 years of cyber security excellence



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### NETWORK

Gartner: Customers' Choice for Unified Threat Management

NSS: Highest cyber prevention score in NGFW

Gartner: Magic Quadrant leader 19 times



### ENDPOINT

AV Test:  
Top scoring Product, 17.5 out of 18 points

Forrester: A leader in endpoint security



### CLOUD

Dome9, a cool vendor in Cloud Security



### MOBILE

Miercom: Highest catch rate & security value

IDC: Leader in Mobile Threat Management



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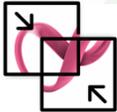
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THE GUIDING PRINCIPLES ARE  
ALL THE SAME.....



 Prevention, Prevention!

 **CHECK POINT INFINITY** Consolidate to Simplify Your Cyber Security

 **A.I.** Look to the Future – Cloud-Centric Cyber Security

**INNOVATION!**

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