CHECK POINT™

Available now!

Quantum Firewall Software R82

The Best Security, Simplicity and Scale *Just Got Better*

Nov 2024

YOU DESERVE THE BEST SECURITY

Agenda

Executive Summary

R82: New Innovations Overview

Additional Resources

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Executive Summary

- Check Point Quantum Firewall Software R82 is now generally available!
- Powerful new innovations level-up the industry-leading security solution:
  - Industry's best **Threat Prevention** gets better: Four new AI-powered engines to prevent more zero-day threats
  - New architectural enhancements to drive **agility** and speed of DevOps in the Data center
  - **Simplify** security operations at scale - leveraging Check Point's gold standard security management
  - NIST-certified **VPN encryption** to safeguard against Post Quantum Computing attacks

Upgrade to Quantum Force + Software R82

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The Gold Standard for the Best Security

Best Real-Time Threat Prevention

99.8% Prevention of Unknown-Threats

Miercom Report: NGFW Firewall Security Benchmark 2024

Setting the Bar for Centralized Management,

"Excels in Centralized Management and UX"

The Forrester Wave™: Enterprise Firewalls, Q4 2024 report

The Forrester Wave™: Zero Trust Platform Providers, Q3 2023 report

Most scalable security for the data center

with Maestro Hyperscale Network Security

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Continuous Innovation for the Best Threat Prevention

TODAY

R81

2020

Industry's 1st
Autonomous
Threat Prevention

R81.20

2022

ThreatCloud AI
Autonomous IoT Security
SD-WAN

R82

2024

New AI Engines for Zero Days
Scale & Agility for DevOps
VPN for post-quantum computing

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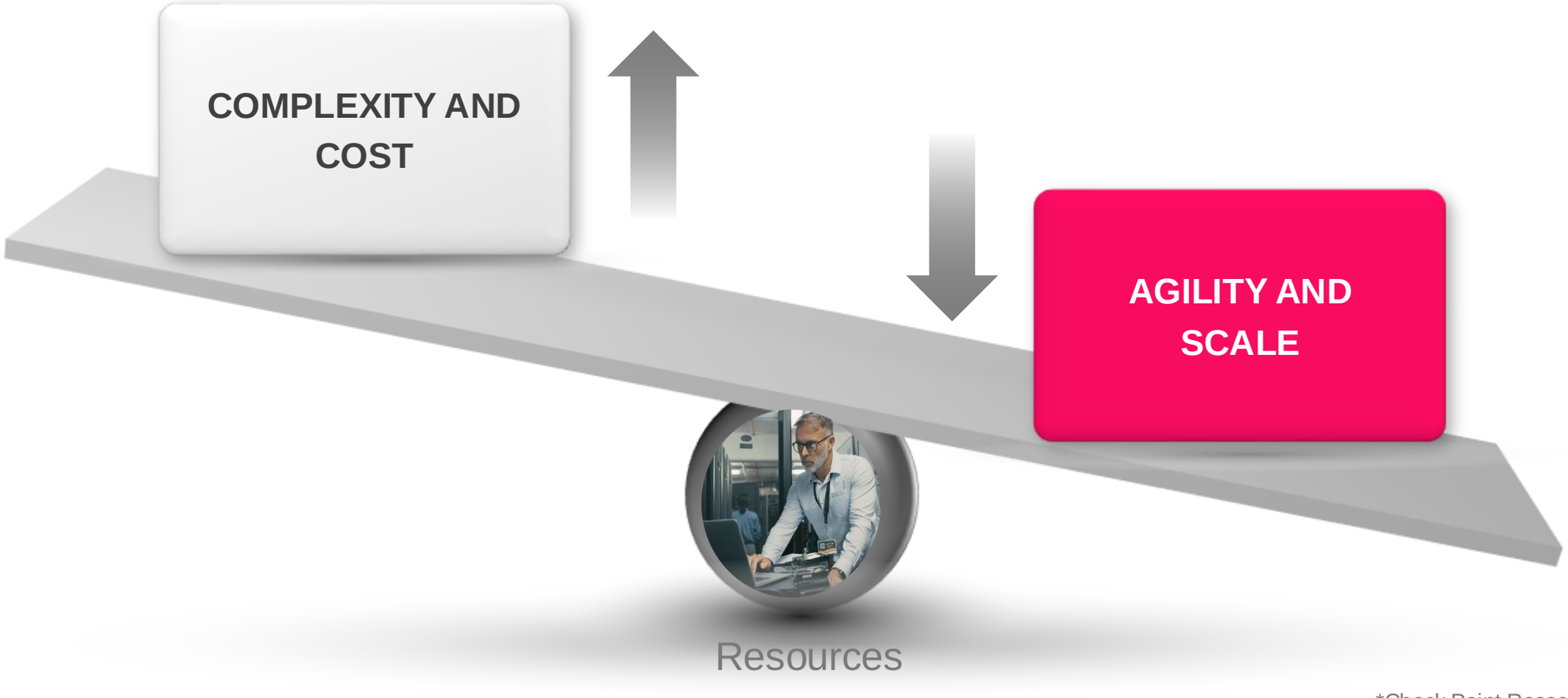
Enterprises Struggle with Sophisticated New Threats

1,876 attacks per organization per week. 75% y/y increase*



*Check Point Research, Sept 2024

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Introducing Quantum Firewall Software R82

The Best Security, Simplicity and Scale *Just Got Better*

1 AI Threat Prevention

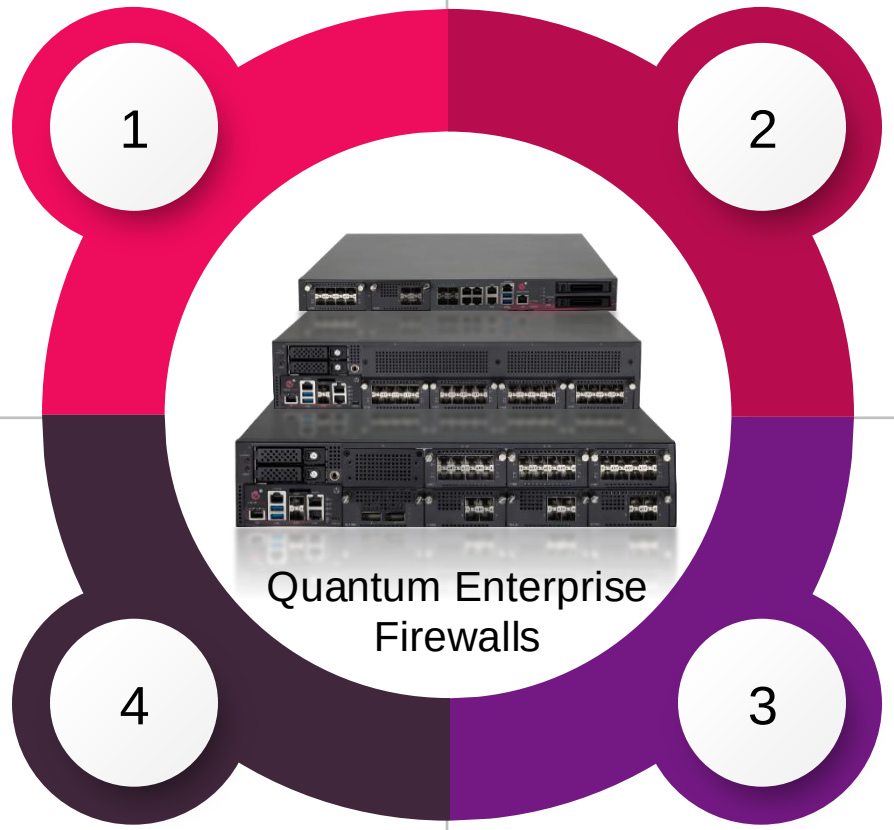
Four new AI-engines (total 55) to prevent more zero-day threats

Block the most evasive and novel attacks

2 Data Center Agility

New virtual system architecture and self-service security for DevOps

Speed up app development
Automate real-time security updates



4 Simplified and Scalable Operations

New firewall cluster architecture
Effortless HTTPS inspection

Faster scaling for unpredictable traffic

Block hidden threats in encrypted connections

3 Quantum-Ready Cryptography

NIST-certified encryption to defend against quantum-computing hacking

Prevent data theft with the strongest VPN encryption

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AI-Powered Threat Prevention

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Using AI to Prevent More Zero-Threats

Prevent sophisticated zero-day DNS, phishing and malware campaigns

Three New AI powered engines find hidden relationships and traffic patterns, preventing zero-day campaigns and brand impersonation

New AI powered URL Categorization Engine
Increases effectiveness of website categorization

Available with Next Generation Threat-Prevention (NGTP) and Sandblast (SNBT) Packages

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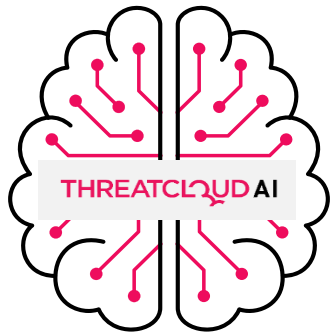
Kronos New AI Threat Prevention Engine

Time-series focused AI and signal processing prevention engine

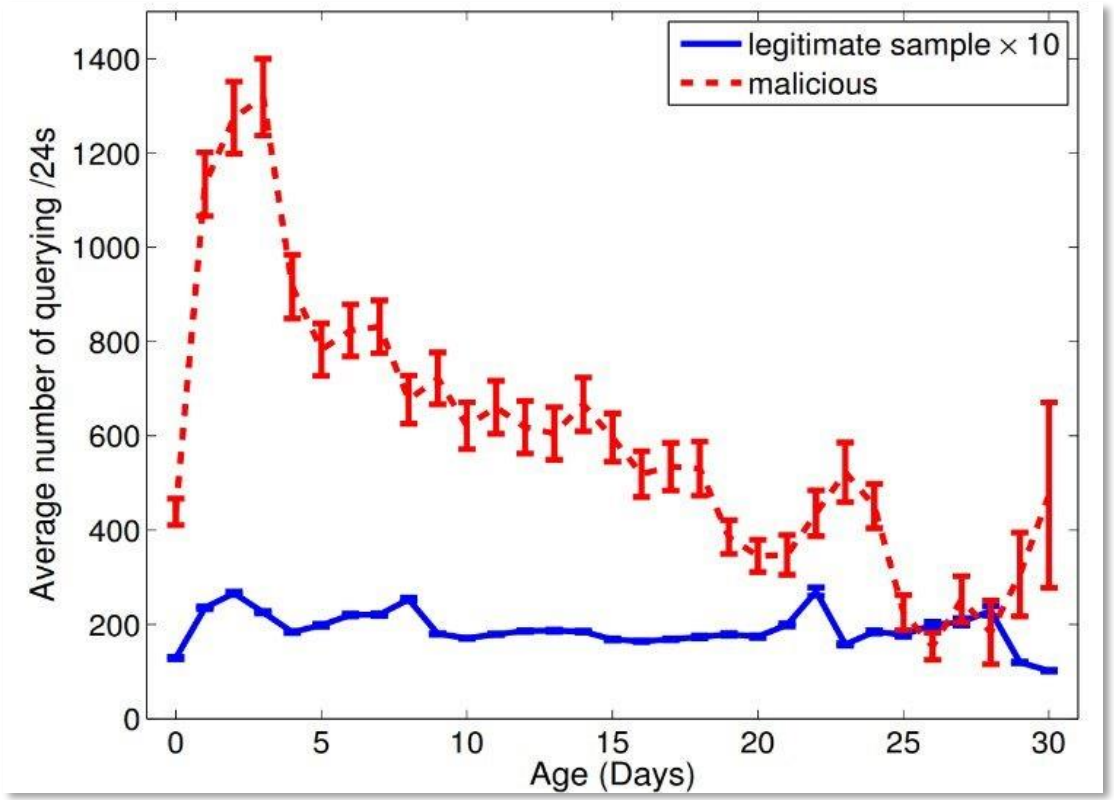
Inspects communication to new domains over time

Detecting zero-day malware patterns

Available in Anti Bot, Anti Virus and URL Filtering Threat Prevention Software Blades (NGTP Package)



+270K
Preventions
on specific month
(September 2024)



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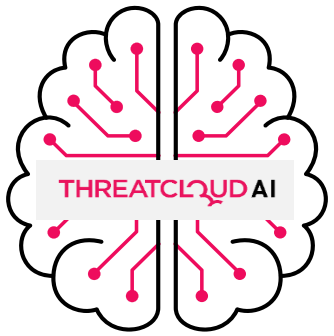
ThreatCloud Graph New AI Threat Prevention Engine

Multi-dimensional relationship analysis of domains, IP addresses, and Domain registrars

AI-powered engine finds relationship between malicious domains

Available in Anti Bot, Anti Virus and URL Filtering Threat Prevention Software Blades (NGTP Package)



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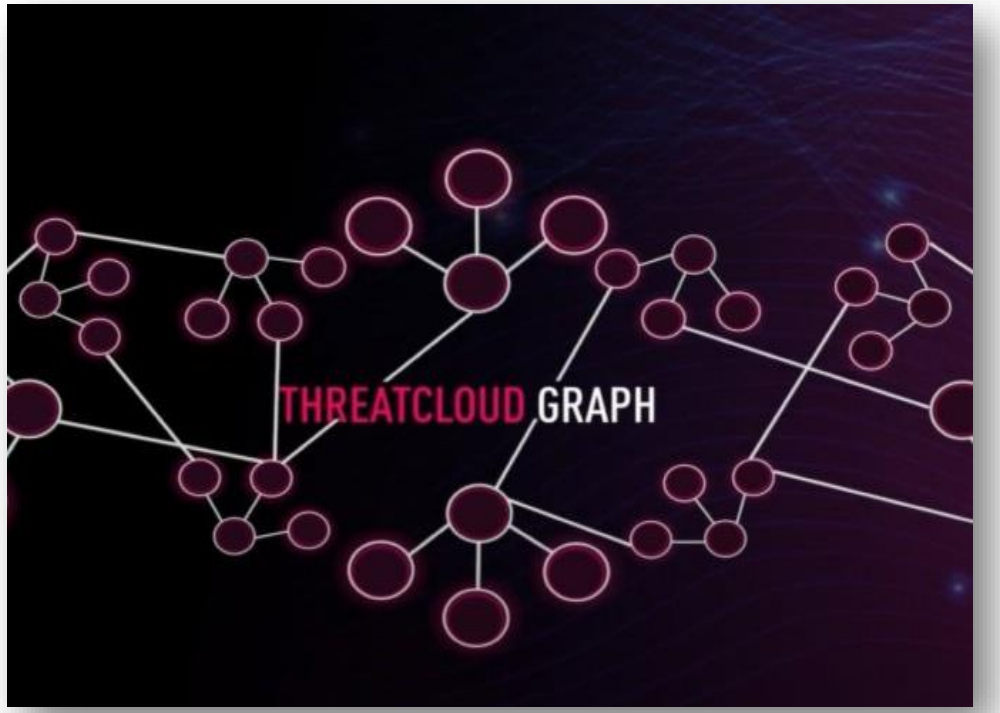

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Deep Brand Clustering New AI Threat Prevention Engine

Detect and prevent brand impersonation phishing attacks in real time

Neural network of web-pages attributes
clustering newly-seen web pages into known brands

Automatic workflow learning new global and local brands
across languages and countries

Available in Zero Phishing Software Blades
(Sandblast package)

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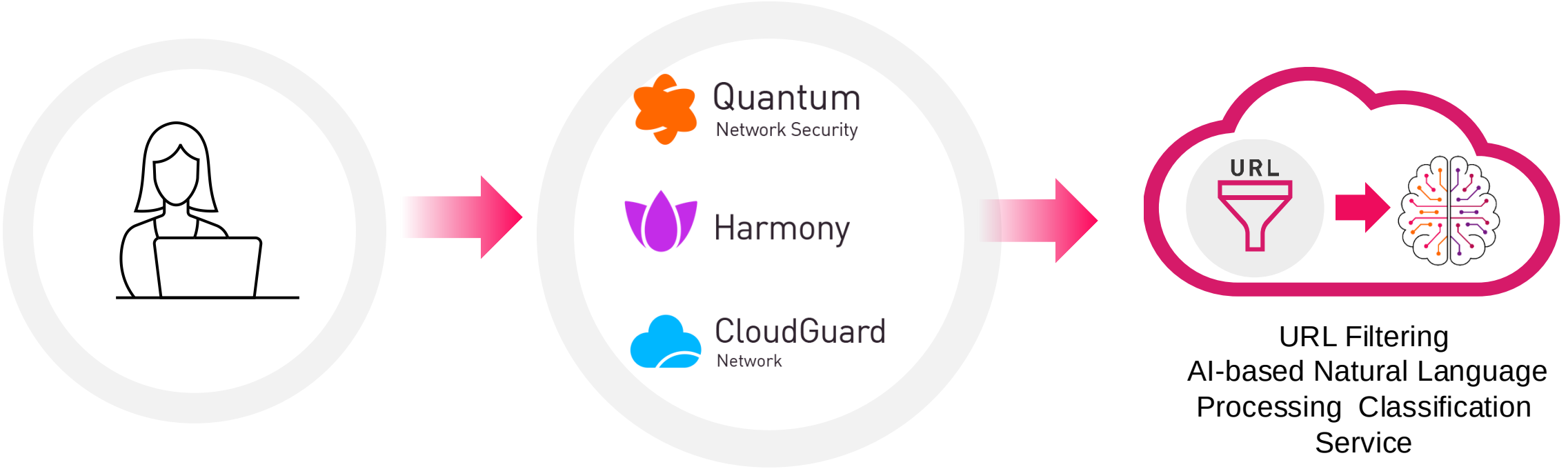
Automatic URL Categorization



URL Filtering
AI-based Natural Language Processing Classification Service

- **78%** reduction of unclassified public URLs
- Avg. of **20,000** URLs classified daily
- Available to **all customers** for all supported versions

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Datacenter Agility

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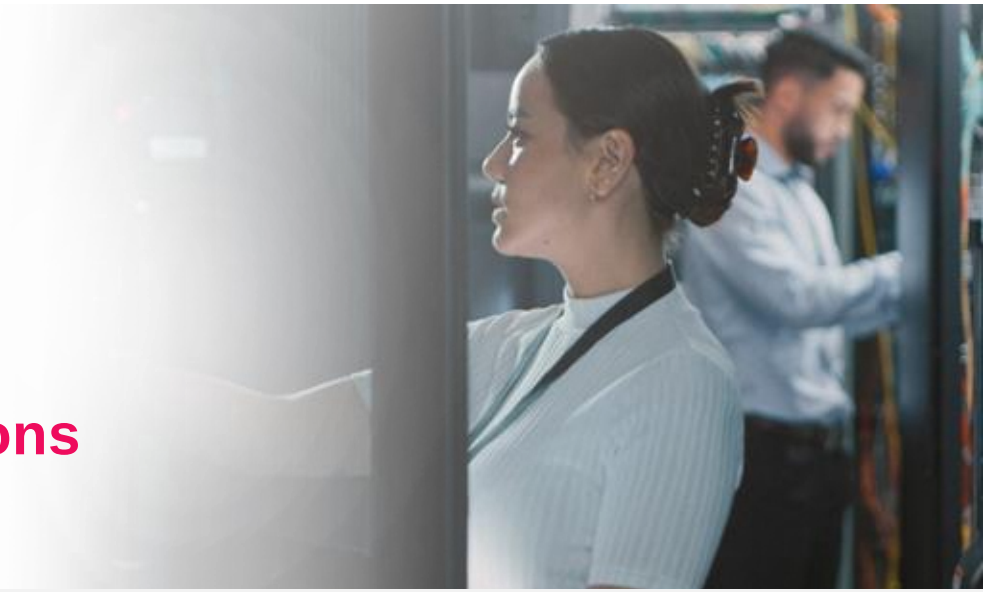
Keeping Up with Rapidly Changing Datacenters

Developers, policy and security infrastructure needs **are constantly changing**

Tickets and slow provisioning **delay business operations**



Best Security for the Hybrid Datacenter with Maestro Hyperscale and CloudGuard Network Security

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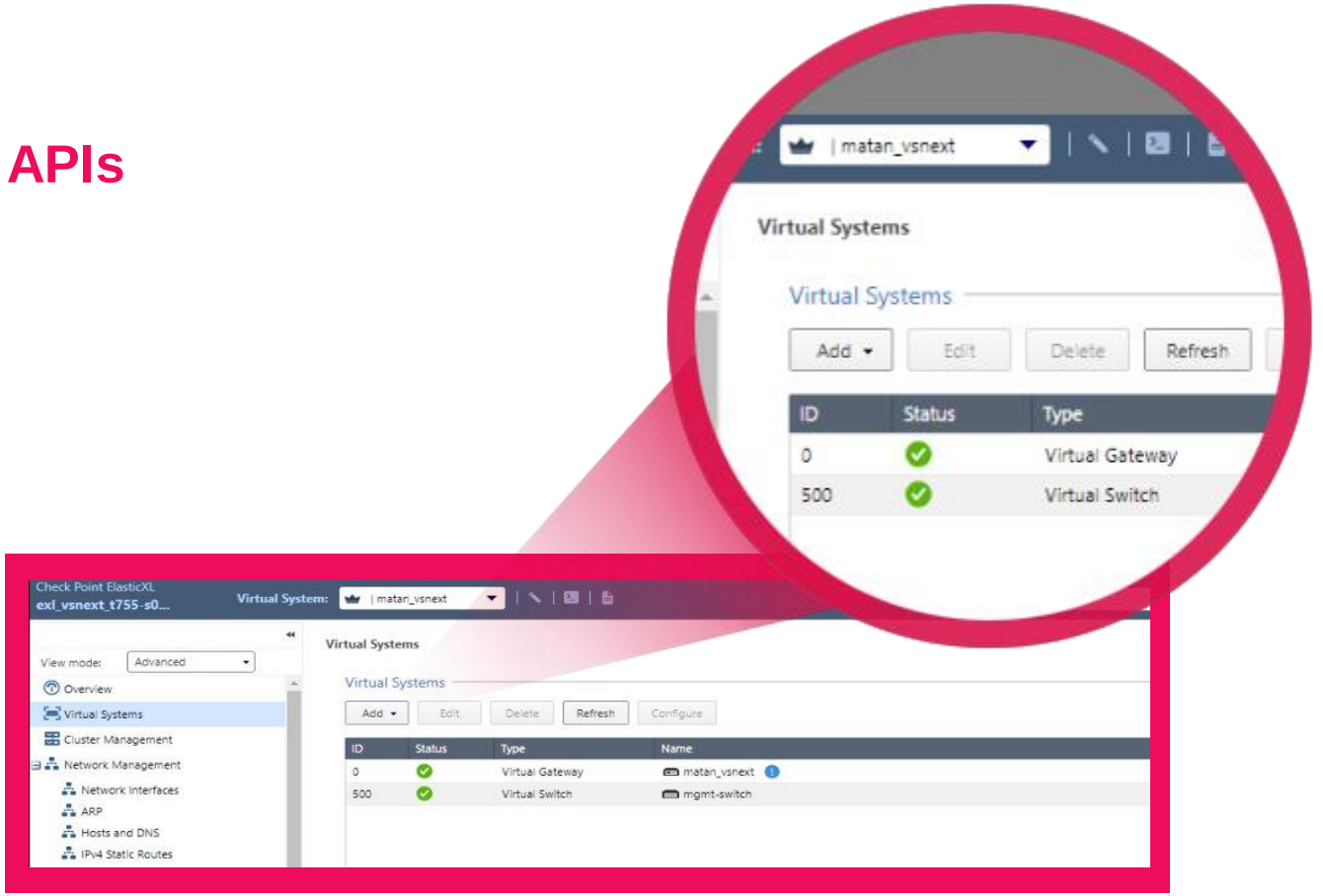
Simplifying Firewall Virtualization with VSNext

Quickly provision and operate virtual firewall systems at the Data Center

Unified management experience and APIs
for both virtual and physical gateways

Spin up virtual firewalls in <1 minute
8X faster than ‘classic VSX”



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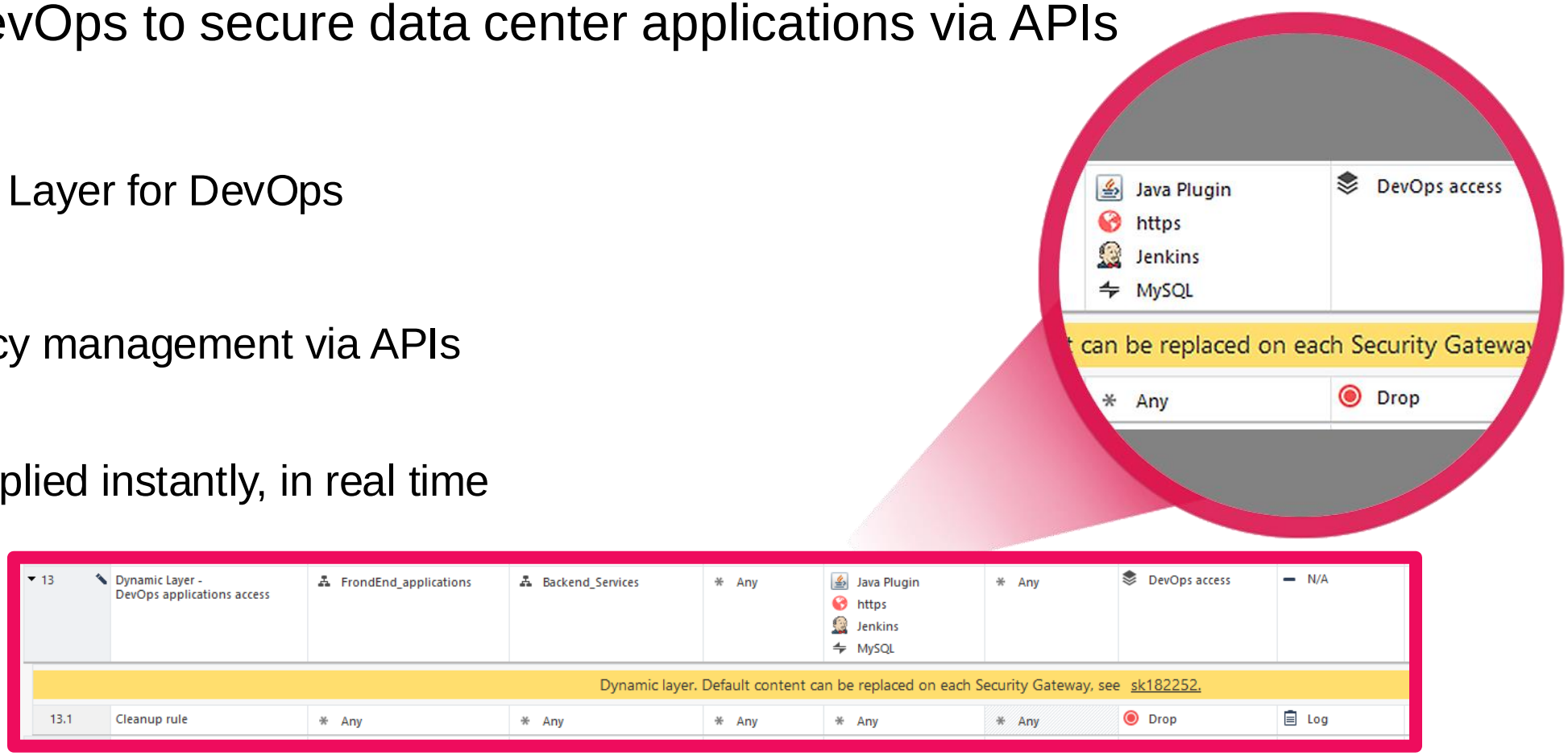
API-Based, Self-Service Security Layer for DevOps

Empower DevOps to secure data center applications via APIs

Dynamic Policy Layer for DevOps

Automated policy management via APIs

Changes are applied instantly, in real time



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Operational Simplicity and Scale

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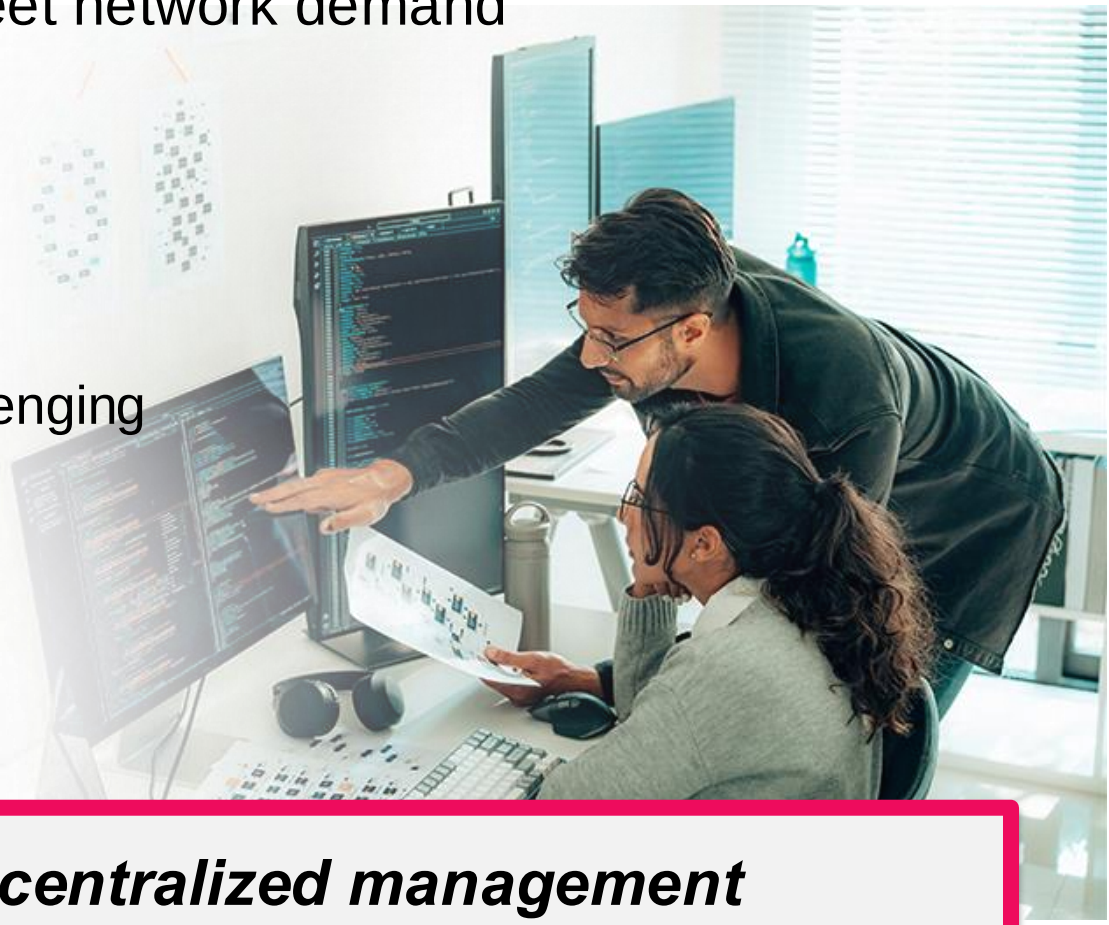
Rapidly Meet Evolving Security Needs

Complex tools make it hard to scale security to meet network demand

Cost and complexity of meeting growth demands

Securing Encrypted Traffic can be operationally challenging



"Check Point sets the bar for centralized management and usability"

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Introducing New Firewall Clustering Architecture

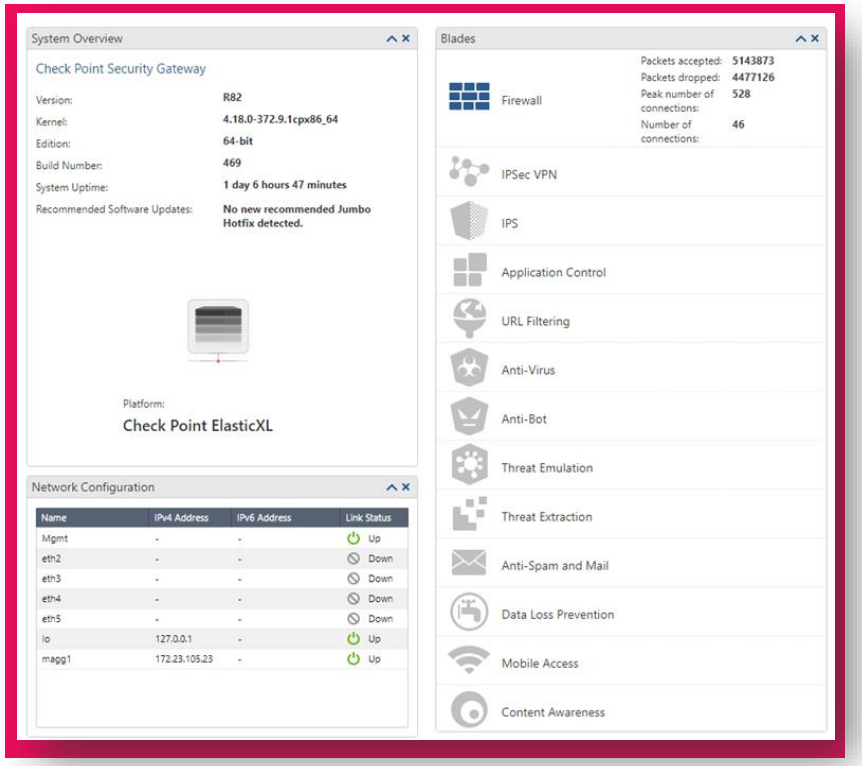
Patented Maestro hyperscale technology is now available for any gateway

New ElasticXL for integrated load sharing and clustering

Simple one-time configuration for **first cluster member -** all other members are automatically cloned

Seamlessly add cluster members **on-the-fly**

Dual site fail-over, and no physical orchestrators required



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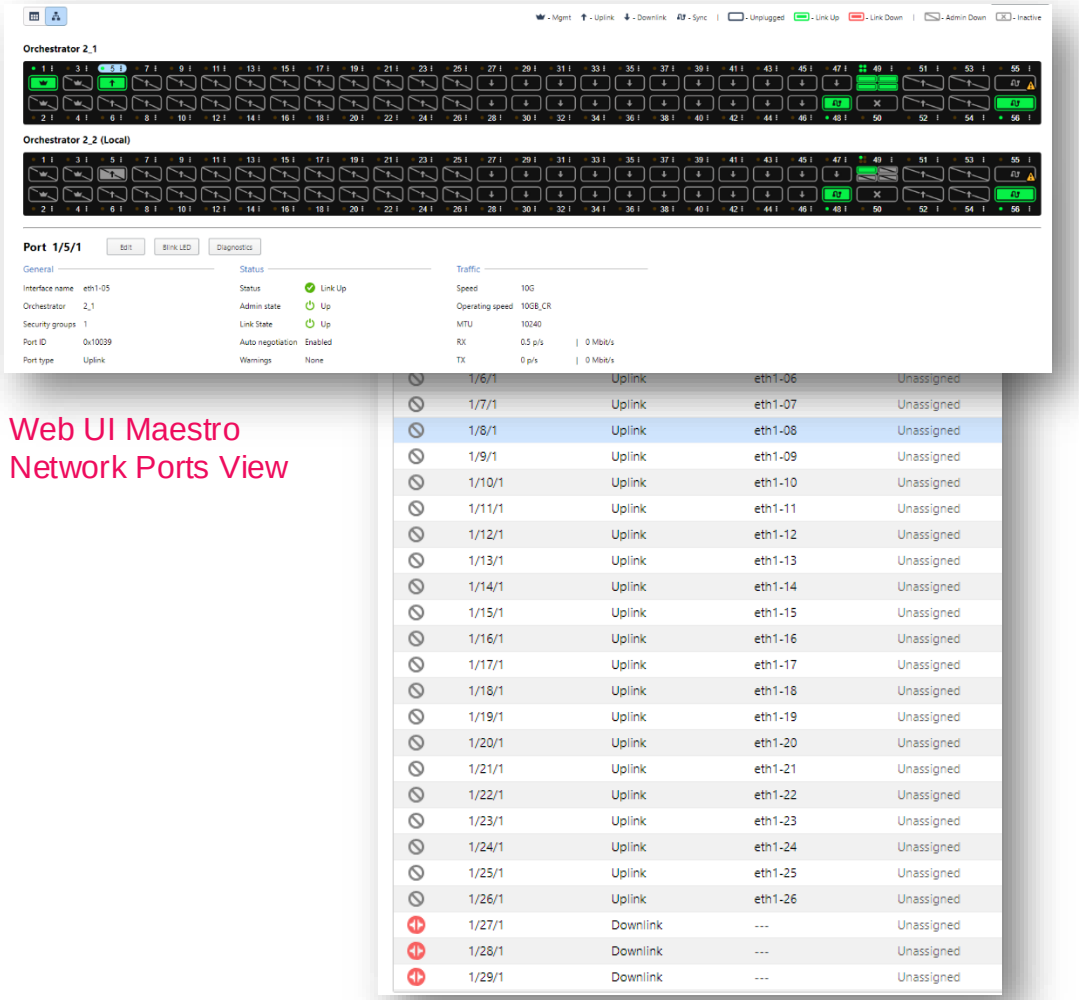
Simplified Management for Maestro Hyperscale Gateway

Streamlined Maestro management and monitoring through **Web UI** and **easy-to-use** first-time wizard

Faster Maestro provisioning with APIs

Simple upgrade experience, eliminates configuration errors with 40% fewer steps



Web UI Maestro
Network Ports View

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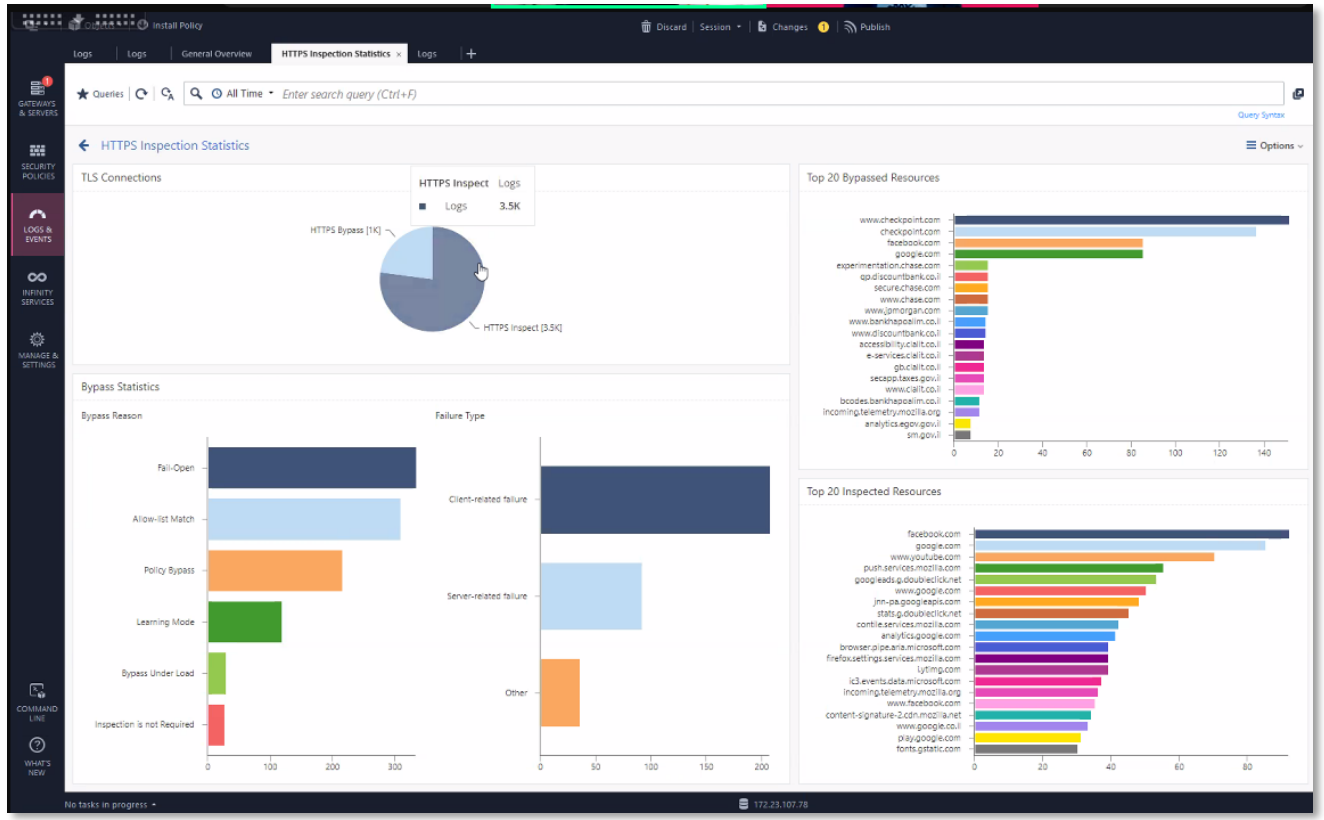
Adaptive and Effortless HTTPS Inspection

Unmatched simplicity for inspecting encrypted traffic - where threats hide

Minimal impact to user-experience
with automatic inspection bypass for unsupported applications

Gradual, smart deployment
with performance impact prediction and progress visibility

Fully managed in **SmartConsole**



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Post Quantum Cryptography

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Defend against quantum-computing hacking

Attackers can steal and store VPN data today to decrypt later

VPN data encrypted with traditional methods may be hacked in the future - “harvest today, decrypt tomorrow”

New quantum-ready VPN encryption with NIST-approved cryptography Kyber (ML-KEM)

[Confidential]
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Plus, over 50 more capabilities including…

AI and Gen AI capabilities

- Infinity Copilot admin assistant
- 3 new Threat Prevention engines:
  Threat Cloud Graph, Kronos, Deep brand clustering
- AI-based URL auto categorization
- AI network learning for HTTPS inspection

Enhanced Security

- 4 new Advanced DNS security features:
  prevent NSNX attack, DNS over HTTPS,
  DNS advanced configuration, DNS security statistics
- Anti Virus and Anti Bot – on by default
- Zero Phishing Simplified configuration
- IPS Load and update SNORT rules
- Support HTTP/3 (QUIC) protocol

Automation and APIs

- API controlled, automatic policy layer
- API parity with Virtual Systems and Physical Gateway
- New Management APIs
- REST APIs for Maestro Hyperscale Orchestrator

Clustering, Routing and Performance

- ElasticXL new clustering architecture
- SNMP queries per Maestro security group member
- HyperFlow acceleration for CIFS and UDP
- IPv4 and IPv6 router discovery on cluster members
- New support for IPv6 configurations
- Support for Link Layer Discovery Protocol in VSX
- New BGP Dynamic routing capabilities

Management and Data Center

- Support new IDPs for Identity Awareness
- New Virtualization architecture: VSNext
- Unified management with VSNext and Gateway
- Improve upgrade time for large Multi Domain setup
- Manage 500 Security Gateways in one domain
- Support for SAML Login in SmartConsole
- Manage Gateways behind NAT device

Operations and Admin Experience

- Enhanced HTTPS inspection policy with 6 new features: performance prediction, bypass under load, Monitoring, Enhanced policy, Fail safe mode, Gradual deployment
- New managed capabilities via Web SmartConsole
- Enhanced Maestro Hyperscale experience with 5 new features: WebUI to manage ports configuration, First time configuration wizard, faster boot time, Improved upgrade simplicity
- Improved virtual systems provisioning
- New tool: ConnView for connection troubleshooting
- 2-Factor authentication for Gaia OS login

Improved VPN capabilities

- ML-KEM (Kyber768) support for PQC
- IKEv2 support for Remote Access VPN
- Advanced VPN monitoring tool
- Enhanced VPN link selection
- Trusted CA package view
- SAML authentication support for Mobile Clients

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Summary

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Quantum Firewall Software R82

The Best Security, Simplicity and Scale - *Just Got Better*

AI-Powered Threat Prevention
with new AI Engines

Datacenter Agility
with new virtual systems architecture
and DevOps API self-service security

Operational Simplicity and Scale
with new cluster architecture
and non-disruptive HTTPS inspection

Schedule Demo

R82 is available for Quantum & CloudGuard Network Security

Thank You!

YOU DESERVE THE BEST SECURITY