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Hybrid Mesh Firewall

The Next Era of Firewalling

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Agenda

- Introduction
- Cisco Secure Firewall
- Hybrid Mesh Firewall Strategy and Innovations
- Conclusion

Securing modern applications is... "challenging"

Highly distributed

- Spanning data center, cloud
- Containers
- Automated deployments

Nothing can be trusted

- Need deep threat inspection and major trust boundaries AND
- Analyze every flow to limit lateral movement

Al increasing attack surface and attacker sophistication

Patching is hard

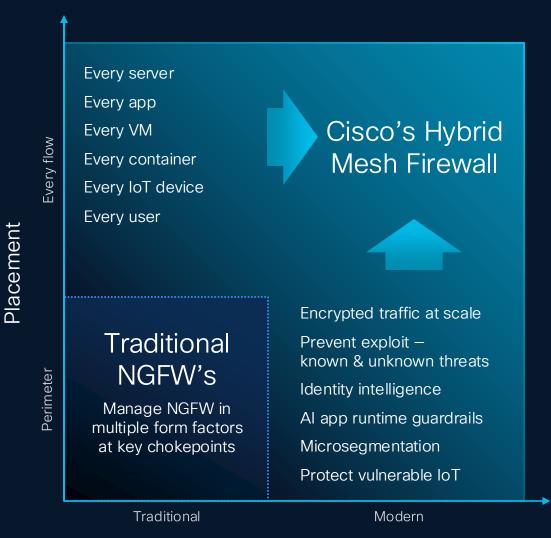
- High vulnerability rate
- Mitigation is too slow
- New exploits of Al models



Firewalling needs to evolve to meet today's challenges

Our North Star

Make it easy for organizations to reduce attack surface, prevent compromise, and stop lateral movement in the modern data center, cloud, campus, and factory



Threat Protection

Cloud Protection Suite -Hybrid Mesh Firewall Cloud Management (Security Cloud Control) Major trust boundaries Everywhere Distributed Exploit L7 Threat Protection Al Model Protection* Segmentation Protection Multicloud Secure Access 3rd Party Hypershield Hypershield Secure Secure Firewall** Workload Firewall Defense (FWaaS)* (Smart Switch) (agent)

Flexibility to swap components



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^{*}Al Defense and Secure Access are add-ons to Cloud Protection Suite **Future

Cisco Secure Firewall





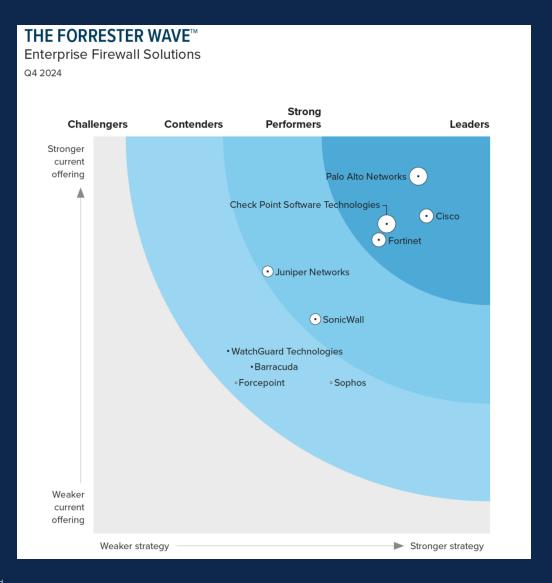


Who took 3rd place in the last World Cup in 2022?

Who is the 3rd largest cell phone maker in the world?

Who is the 3rd firewall vendor?

Market Analysts





Firewalls for every use case

ISA **3000** Series



≦0.4 Gbps NGFW

1010 Series



≤0.9 Gbps NGFW

1200 Series



≦18 Gbps NGFW

3100 Series



≤45 Gbps NGFW 16x Clustering

4200 Series



≦145 Gbps NGFW 16x Clustering

9300 Series



≦68 Gbps NGFW 16x Clustering

IOT / Branch / SASE

Campus / Data Center / Service Providers

Private Cloud

NUTANIX



openstack.







Public Cloud















alkira

Gov/IC Cloud









Cisco's Security Competitive Differentiation

0-day protection

Machine Learning from Talos

24x7 threat hunting with flexible engines that enable on-box real-time traffic inspection without relying on static signatures

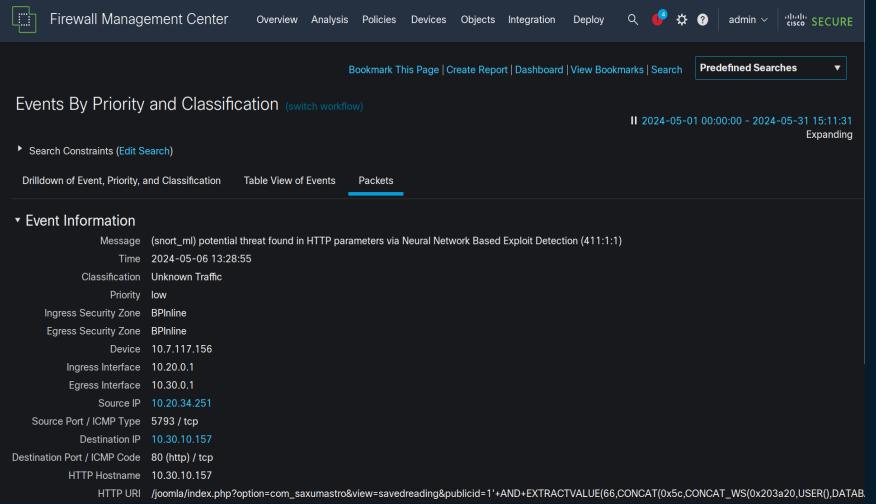
Simplify Operations Boost via cloud

Efficiency with real tasks

Decide how to deal with encrypted traffic – decrypt, bypass what's considered safe and inspect what's suspicious or can't be identified Cloud Platformization

Cloud Assist for AlOps, Zero Touch Provisioning and Al Assistant

SnortML: Zero-day protection

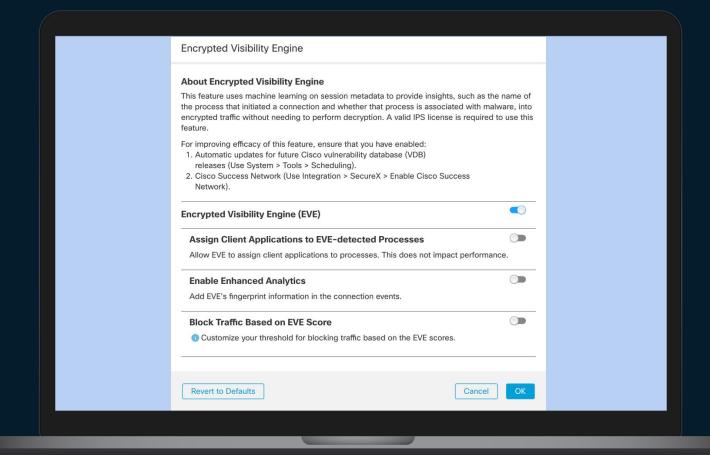


- A machine learning detection engine detecting known vulnerability types
- Proactive blocking of 0-day exploits
- Identifies variations of attacks

Gain control over encrypted threats

Without decryption, encrypted visibility engine 2.0 uses AI/ML to block encrypted threats for thorough security, simplicity, privacy and performance

- · Simplify encrypted traffic inspection
- Preserved privacy and compliance
- Accelerate firewall performance
- Application visibility and control in encrypted streams
- TLS 1.3 and QUIC protocol support





Hybrid Mesh Firewall Innovations



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Flexibility to swap components



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Security Cloud Control

Secure Firewall Threat Defense Multicloud Defense

Hypershield

Secure Access

Secure Workload

Αl Defense



Integrations

Dynamic Objects

Licensing

Provisioning

Tenancy

User Management

RBAC

API Gateway

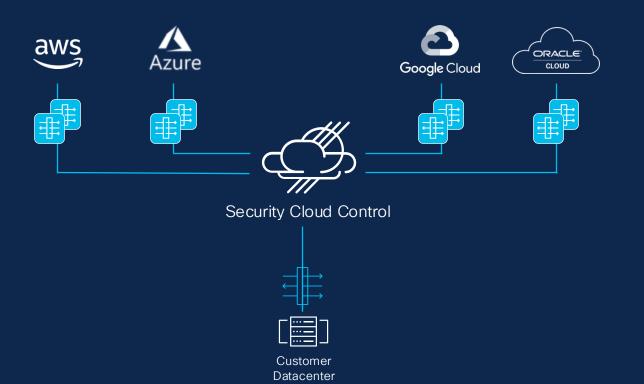
Unified Al Assistant

Common UI Experience



Extending Firewalling to the cloud, natively





- Cloud-agnostic automation and orchestration
- Comprehensive visibility of clouds, assets, and their risks
- Automatically deploy, scale, and heal, from Security Cloud Control
- Hourly price; unlike other offers based on size and bandwidth

EARLY

Al Security Journey

Safely enable generative Al across your organization



Discovery

Uncover shadow Al workloads, apps, models, and data.



Detection

Test for Al risk, vulnerabilities, and adversarial attacks



Protection

Place guardrails and access policies to secure data and defend against runtime threats.



Al Defense



Visibility of underlying models and data

Model Validation and guardrail recommendations

Recommended Actions

Protect applications (67) Secures sensitive data, prevents unauthorized access, and protects proprietary algorithms from theft or misuse Review increased app usage 3 days ago Review sudden spikes in blocked events to avoid security risks. **ExternalChatBot Application** Review third party apps (67) 3 days ago Safeguards user privacy, prevents data breaches, and ensures compliance with security and regulatory standards.

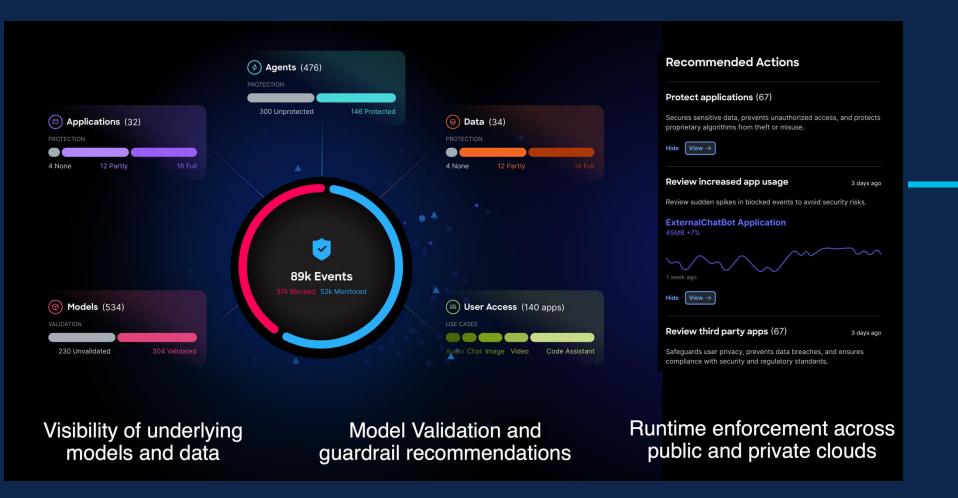
Runtime enforcement across public and private clouds



EARLY ACCESS

Delivered via the Hybrid Mesh Firewall





Cisco Security Cloud Enforcement Points

Secure Firewall

Secure Firewall
Cloud

Hypershield

Secure Access





Isovalent
Enterprise Platform is the industry-leading solution for Kubernetes Networking and Security



Isovalent is the eBPFpowered foundation for
Cisco Hypershield
on Kubernetes,
public/private cloud VMs,
and bare-metal servers



Isovalent delivers a consistent layer of connectivity and security that runs everywhere across both public & private clouds.

When Security meets the Network Cisco Nexus 9000 Services Accelerated Switch (SAS) + Hypershield



Security

Hypershield

Cisco Security Cloud Control Autonomous Distributed Segmentation **Exploit Protection** Platform Workload and network enforcement points

- Intelligent Security Policy placement
- Self-qualifying updates (Dual Dataplane)
- Unified architecture across workload and network enforcement - Public and private clouds

Compelling innovation

Network

Nexus

Nexus 9000 SAS



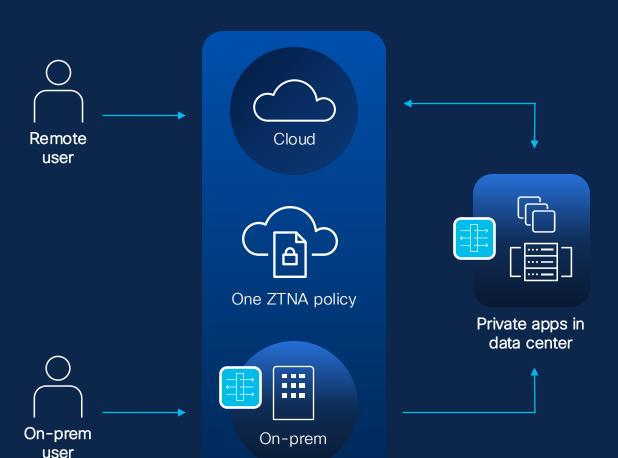


- Converge stateful services and network
- · Built-in DPU hardware accelerator to scale, extend, or add stateful services
- Use Cases: Cloud Edge, Zone-based segmentation, DCI, and Top of Rack



Hybrid Private Access (UZTNA)





- Single ZTNA policy created and automatically applied from Security Cloud Control
- Cloud and on-prem firewall enforcement, including on-prem inspection for sensitive apps
- Reduced cost and latency when on-prem users access on-prem apps
- No additional infrastructure or purchase to implement

Hybrid Mesh Firewall - Summary

A security fabric for tomorrow

L7 Threat Protection

Segmentation

Al Model Protection

Distributed **Exploit Protection**

Only from Cisco



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