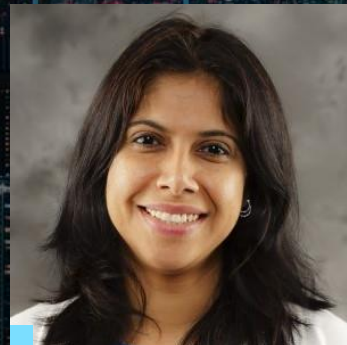


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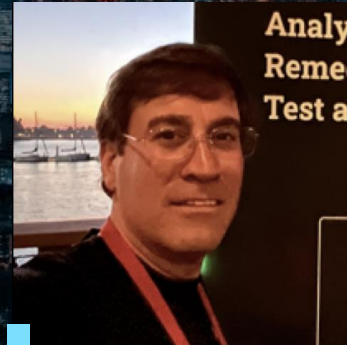
Network Security at the Edge with Intel® NetSec Accelerator Reference Design

October 24, 2023



Jyoti Kolhe

Cloud/Edge Segment
Manager – Intel



Ryan B

Technical Director of Strategic
Alliances – Noname Security



Adam Bennett

CEO – Red Piranha



Dogu Narin

VP of Product Management –
Versa Networks

The Intel logo, consisting of the word "intel" in a lowercase, sans-serif font with a registered trademark symbol, positioned in the bottom left corner of the slide.

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The Intel logo is positioned in the bottom left corner of the slide. It consists of the word "intel" in a white, lowercase, sans-serif font, with a registered trademark symbol (®) to its upper right. The logo is set against a dark blue background that features a grid of squares in various shades of blue and white, creating a digital or network-like aesthetic. The background of the entire slide is a high-angle, night-time photograph of a city skyline, with numerous illuminated buildings and the prominent Tokyo Tower on the right side.

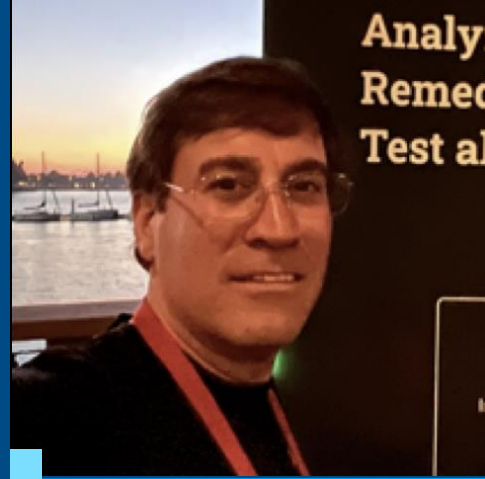
intel®

Today's Host and Presenters



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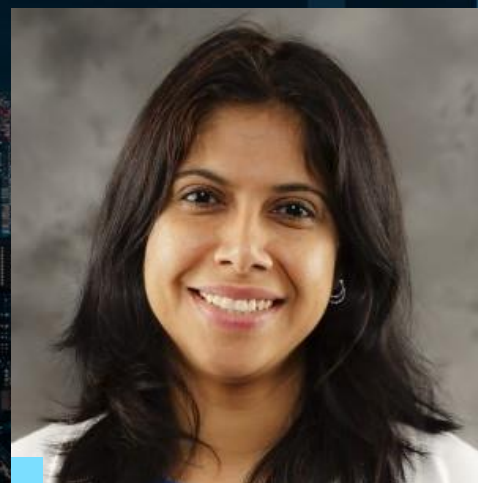
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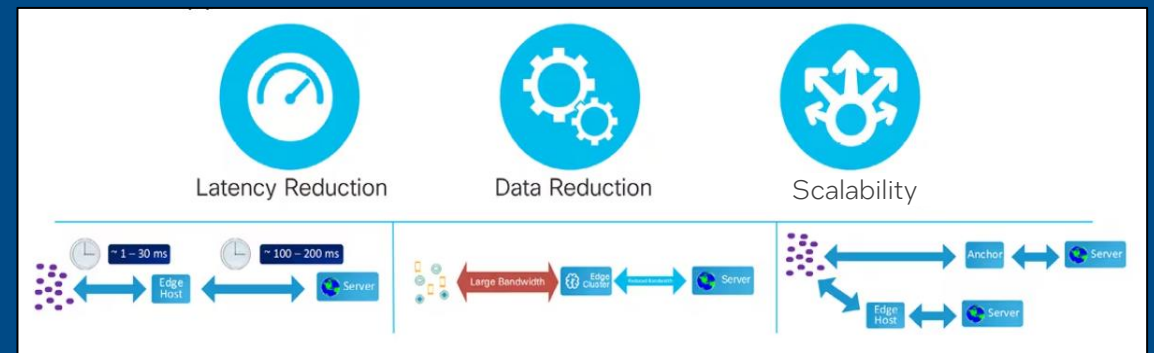
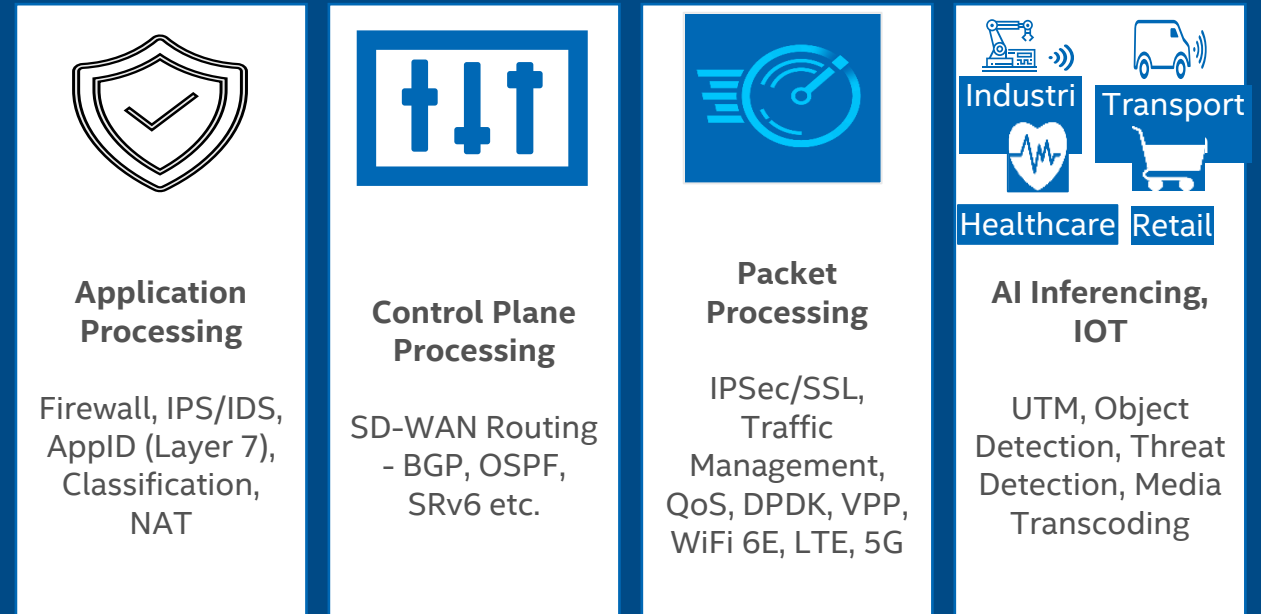
Cloud/Edge Segment
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Transformation of the Network Edge

Enterprise workloads are driving need for scalable infrastructure at the edge to support latency, local data processing and security

- Enable workloads to be deployed where they are needed
- Shift towards micro-segmentation and distributed architectures - > edge cluster nodes
- Anchored on 5G and SDN with SASE/SSE becoming the security fabric



Intel® NetSec Accelerator Reference Design

....an autonomous server on a PCIe add-in card

- Server on a card: orchestration and mgmt. independent of the host
- Intel® Ethernet Network Adapter E810 + Intel SOC
 - Flexible compute augmentation for Host Platform
 - Workload migration from host to free up Cores
- Intel scalable Architecture for common Network Functions
- Maintain Architectural Consistency with Intel Architecture
- Low software lift (if any) to on-board



Intel Atom: 8C, 16C
Production: NOW



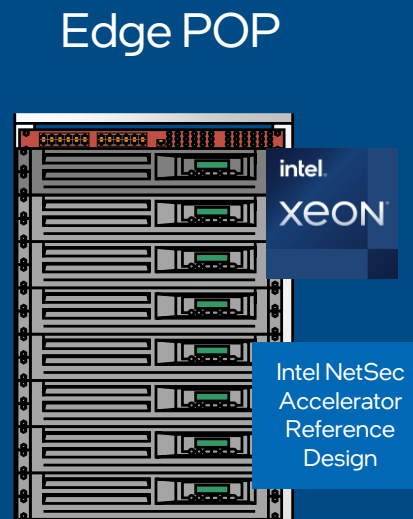
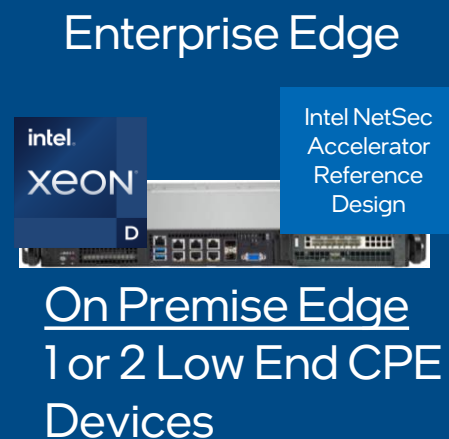
Intel Xeon-D: 4C, 8C, 10C
Coming Soon

Deployment Models	Use Cases and Workloads
Network Accelerator Aka Partial Application Offload	Network and Security Appliances Ipsec, SSL, IDS/IPS, NGFW
Full Application Offload Aka Distributed Appliance	SASE and Network Edge Connectivity SD-WAN, Head End and Far Edge

Intel® NetSec Accelerator Reference Design

Product Positioning

- Acceleration of Networking and security workloads
- Customers looking for Intel coherency
 - Same NIC/SOC as used on appliances
 - Ease of consumption; low software effort, if any
- Anchors on driving scale and TCO
 - Workload accel. -> platform scaling
 - Deployment of fully packaged apps/appliances in 3rd party hosts
 - ❑ Edge: enable scalable cluster nodes
 - ❑ 'Appliance on a card' that works autonomously in a host

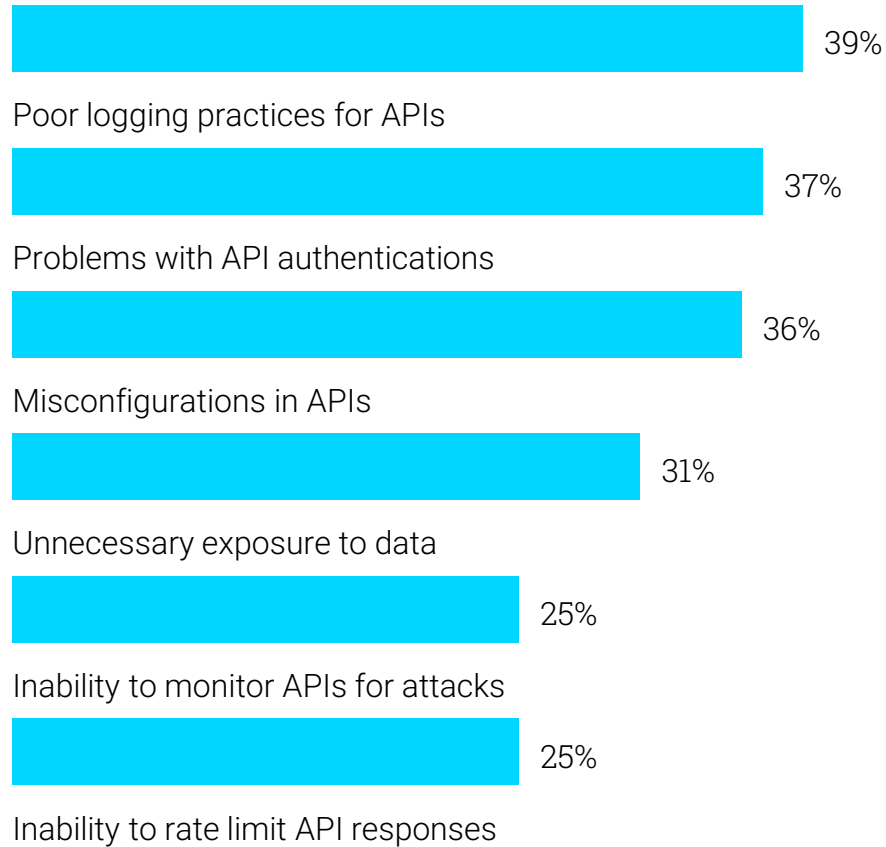


Polling Question

How much of your organization's resources - applications and data - run at the edge?

- A. More than 70%
- B. 40-70%
- C. Less than 40%
- D. None

API Security requires Machine Learning, because it is a superhuman problem to solve



15,564

Average number of Production Enterprise APIs

76%

of organizations experienced a security breach in the past year

37 days

27 days for discovery

10 days for remediation

per incident



Whitepaper

The 2022 API Security Trends Report

[Learn more](#) →

Security First SASE, for Partners



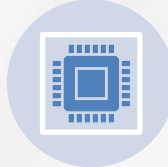
Dedicated Hardware Control plane, eliminates virtualisation based attack risk



Implement CTEM through Vulnerability Management all the way down to the SBOM



High Assurance , with 11 times increased visibility across cloud, network and end point



Up to 2.4 Gbps Security Scanning Throughput*



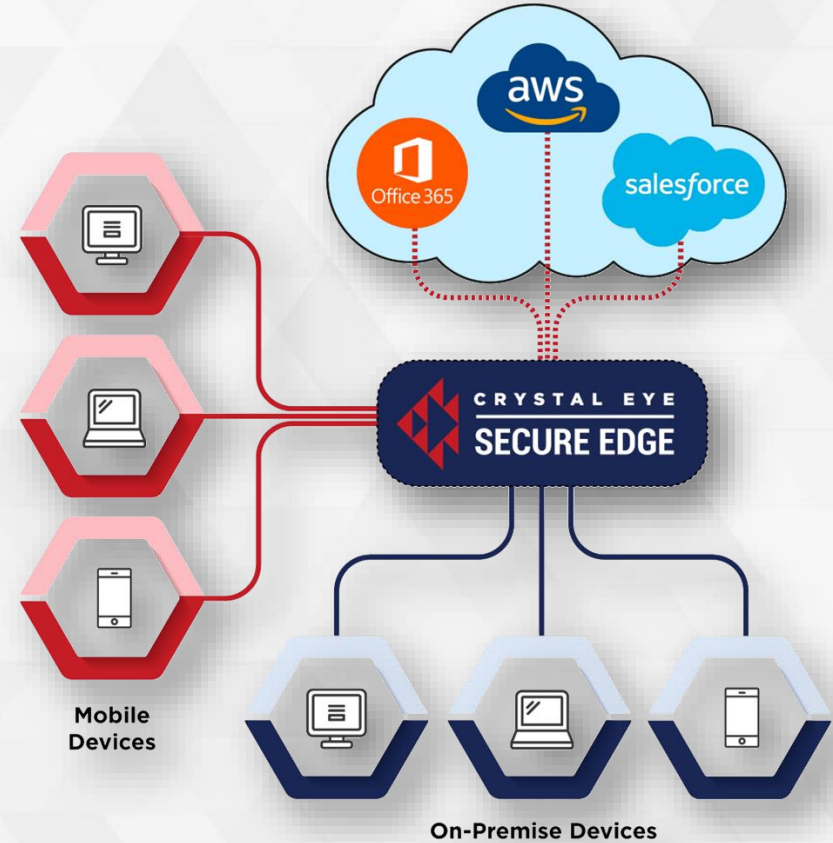
Implement a Declarative Authorisation Service - DAS



Compact hardware footprint, 5 times Energy Saving, Improved data center profit



Best of class TDIR to meet the challenge of the ever-evolving threat landscape



Crystal Eye Cloud Access Security Broker

Securing Data Center Infra and Tenants

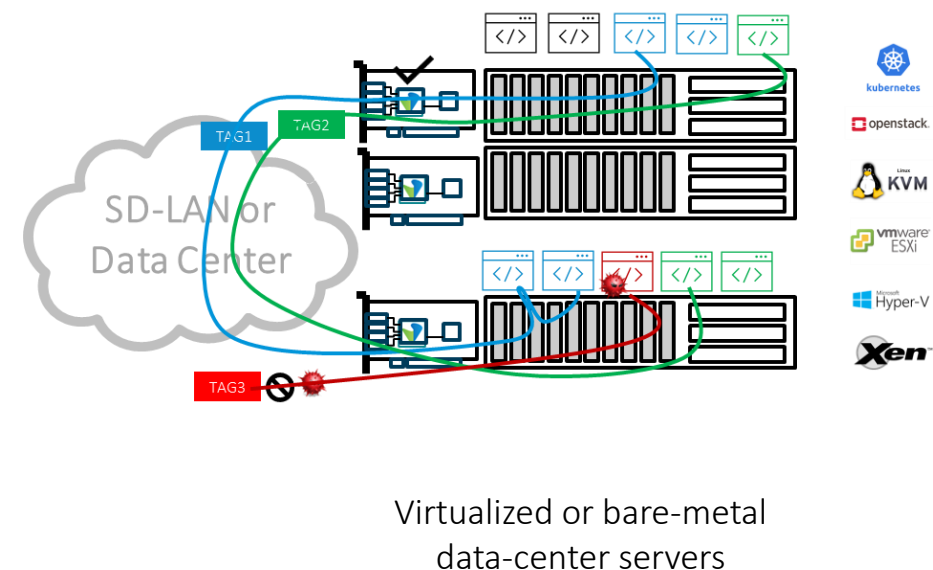
ZTNA and Full Stack Security Inline within Data Center Servers

The Need

- Multi-tenant or compliance certified deployments need policy controlled, secured access for tenants and workloads
- Seamless inline security stack does not exist today

The Solution

- VOS running on Smart-NIC – with full functionality
- Extending ZTNA, Micro-segmentation, Secure SD-LAN into Data Center servers
- Security, policy-based traffic control and traffic management natively provided inline
- Seamless insertion – fully transparent to workloads and OS

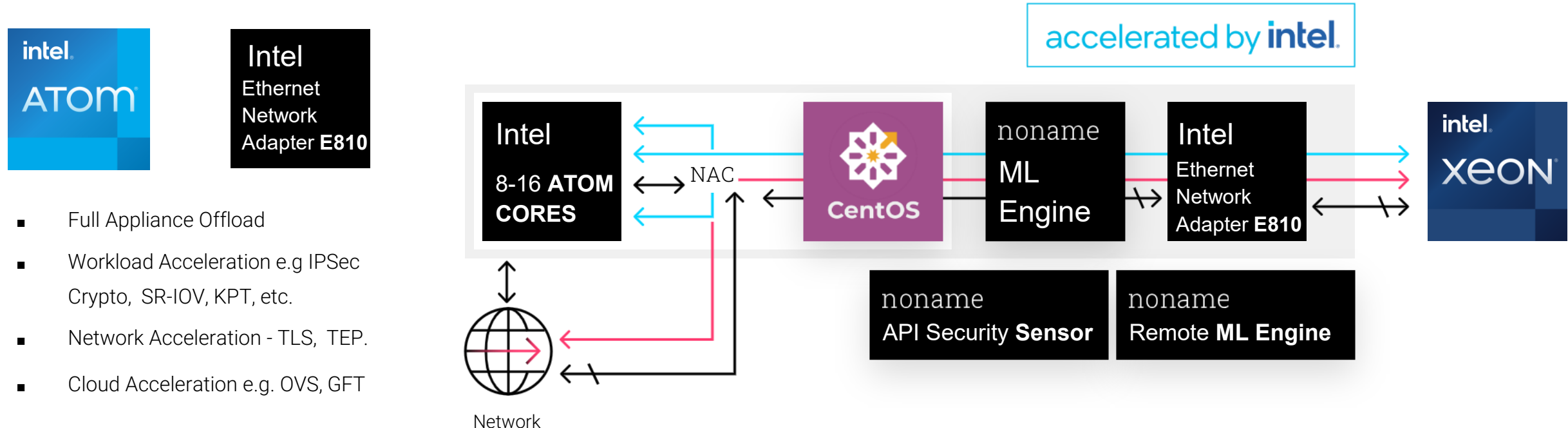


Intel® NetSec Accelerator Reference Design

with 100GbE Intel® Ethernet Network Adapter E810 Edge Telco Grade network interface & low latency API Security powered by Noname Security Machine Learning

Family of Intel SoC-based Reference designs intended to accelerate networking and security workload

Use cases: IPSec/SSL/Http offload, SASE, FW | AI Machine Learning integration with:



A complete autonomous server with full Orchestration and Management on a PCIe add-in card

Security without Compromise, for Integrators



Ready to scale, module design, build and deploy past 100GB, for large scale traffic monitoring



Customizable adapter and node controllers, manage traffic across node or port-to-port



Configurable for DOS protection profiling



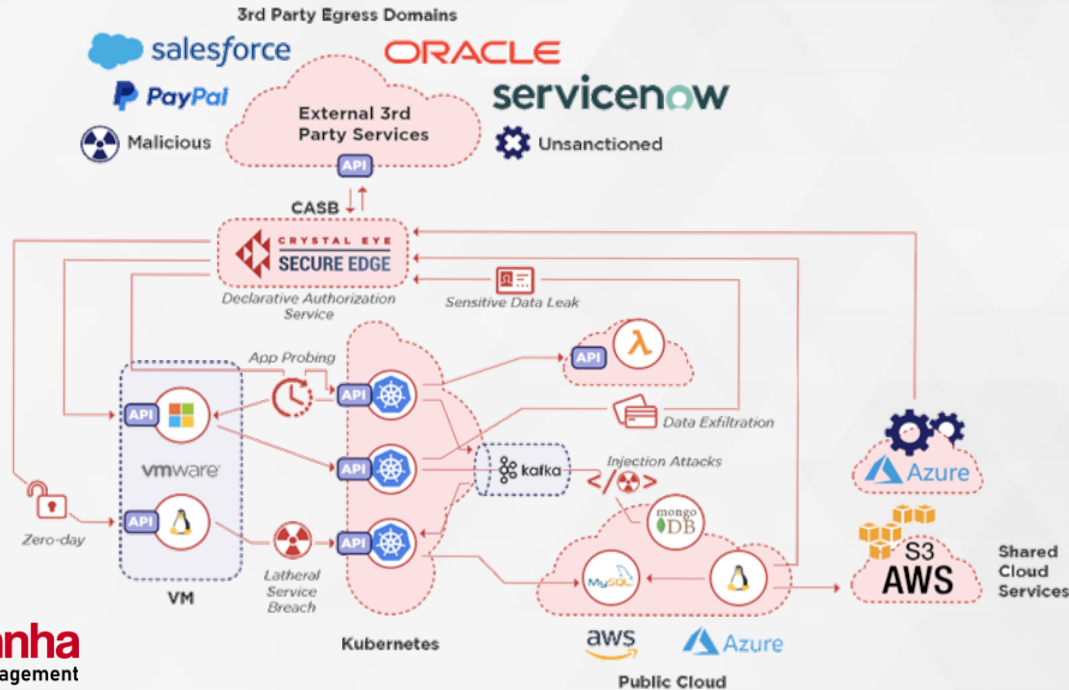
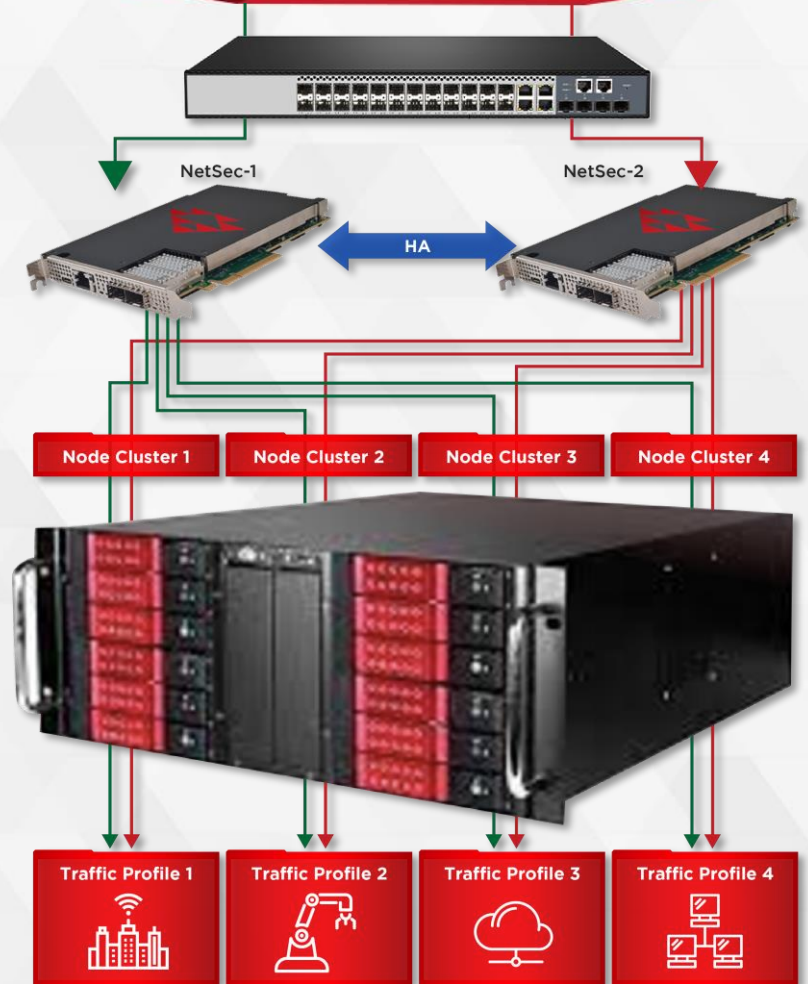
Custom proxy profiles for increased TLS interception and inspection capabilities



Redundant cluster node failover



Instant SOC capability across custom traffic types



Securing Compute Platforms in Remote Deployments

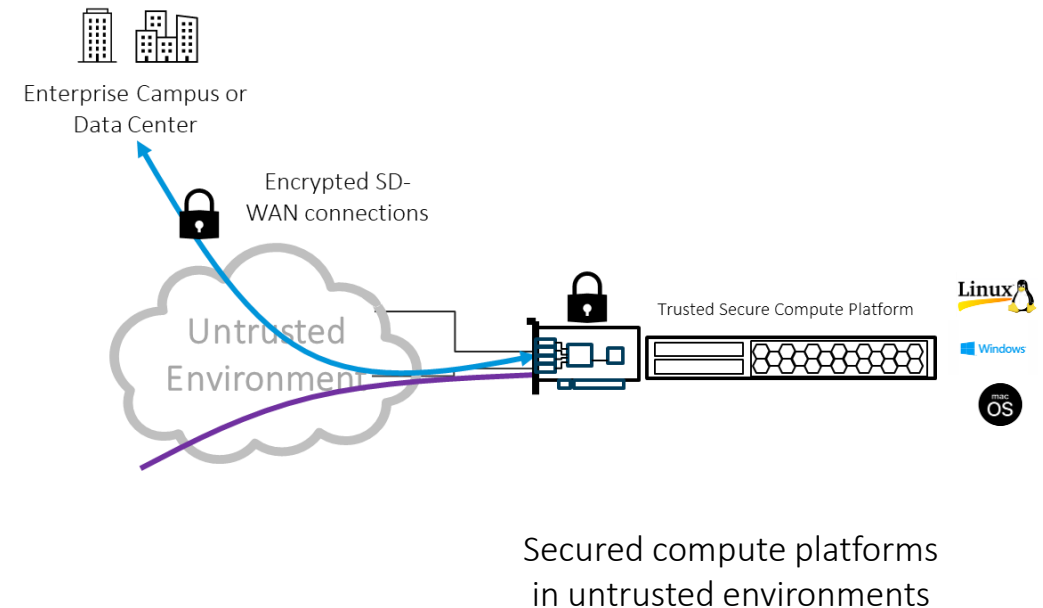
SD-WAN style Encrypted Connections with full WAN Edge Security for Compute Platforms

The Need

- Enterprises may need to deploy compute solutions in untrusted or 3rd party environments
- Enterprises need to seal the compute and have a trusted and encrypted way of connecting to it

The Solution

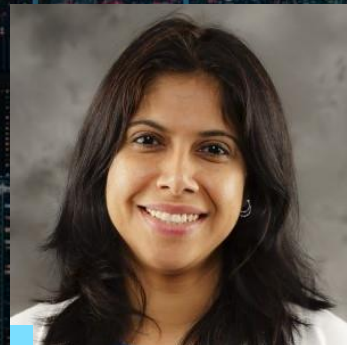
- VOS running on Smart-NIC – with full functionality
- Extending SD-WAN, NGFW and UTM based edge security to compute platforms deployed in untrusted environments
- Security, encryption, policy-based traffic control and traffic management natively provided inline
- Eliminating need for external appliances



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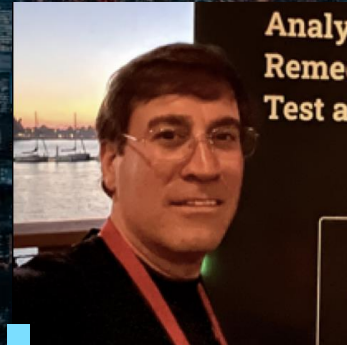
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