

CISCO
SECURE

CISCO The bridge to possible

From Firewall to the Future





John Wallace, CISSP

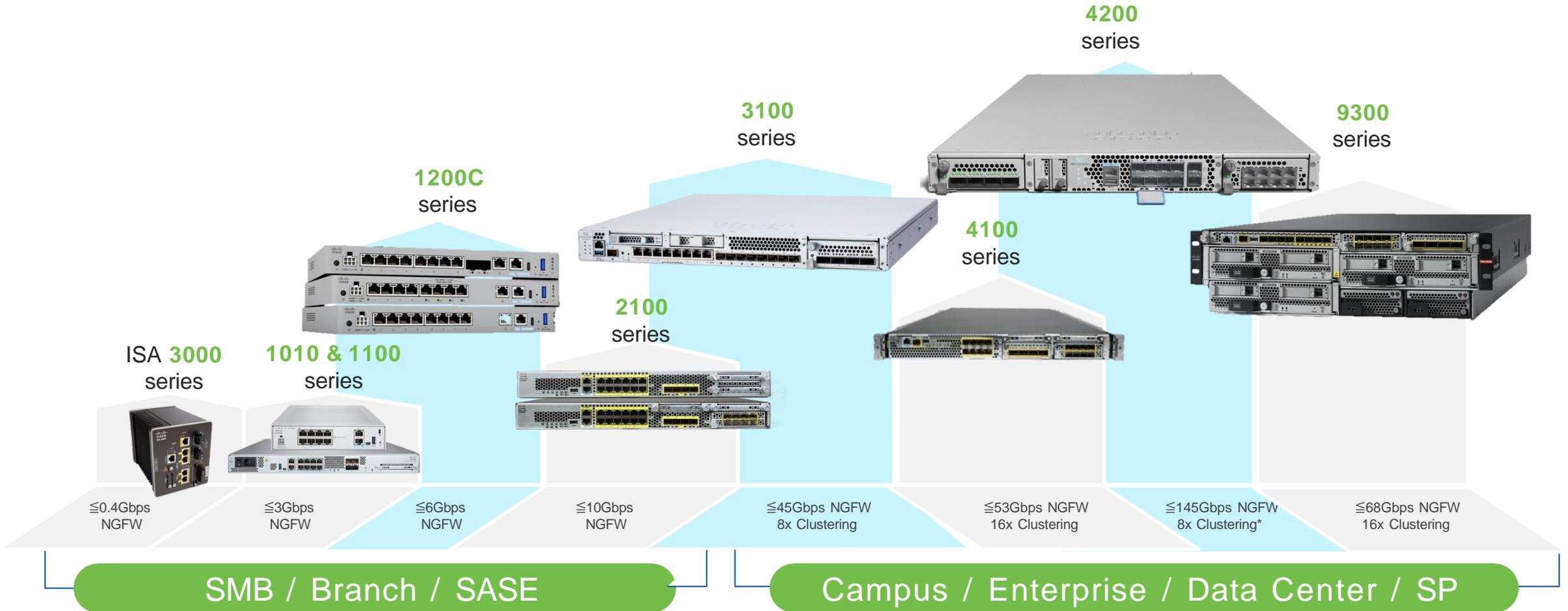
**Security Advisor to Global SMB Partner Security Sales
Americas - Distribution Security Partner Account Manager
Global Mentee Initiative - Mentor**

- Cisco Global Partner Security Sales
- 26+ Years in Enterprise Infrastructure
 - Implementation, Architecture, and Design. Specializations in Security, Application and Desktop delivery & End user experience.
- CISSP as of 10/21/22
- Drummer in a Cover Band
- SecTeam6 Alumni



Cisco Secure Firewall Hardware

Full coverage, from IoT/OT & Branch / SASE to Enterprise/Carrier Class modular chassis



The New Secure Firewall 1200C Series

An SD-WAN enabled, high-performing, compact firewall for distributed enterprise branches

> 3x
Performance
over rivals

> 2x
Price/Performance
over rivals

1210CE - 1210CP - 1220CX



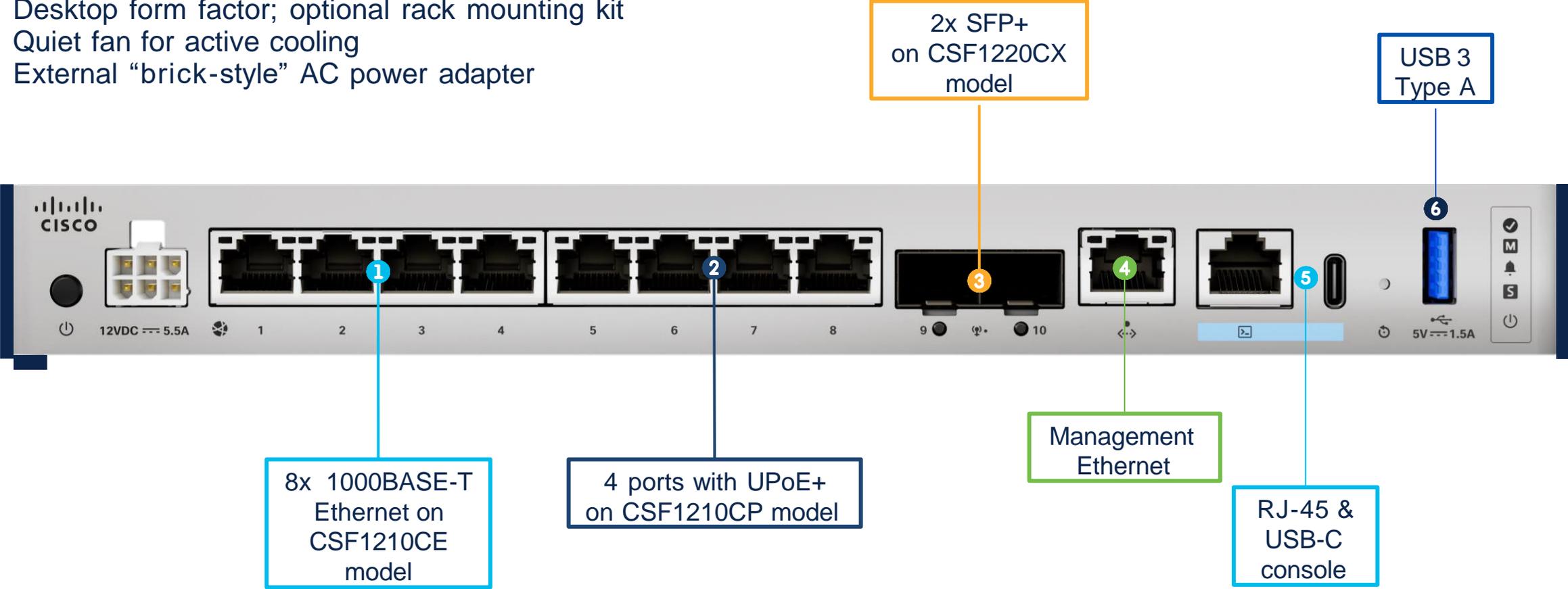
Enterprise-grade security

Increased performance, high efficiency and superior TCO

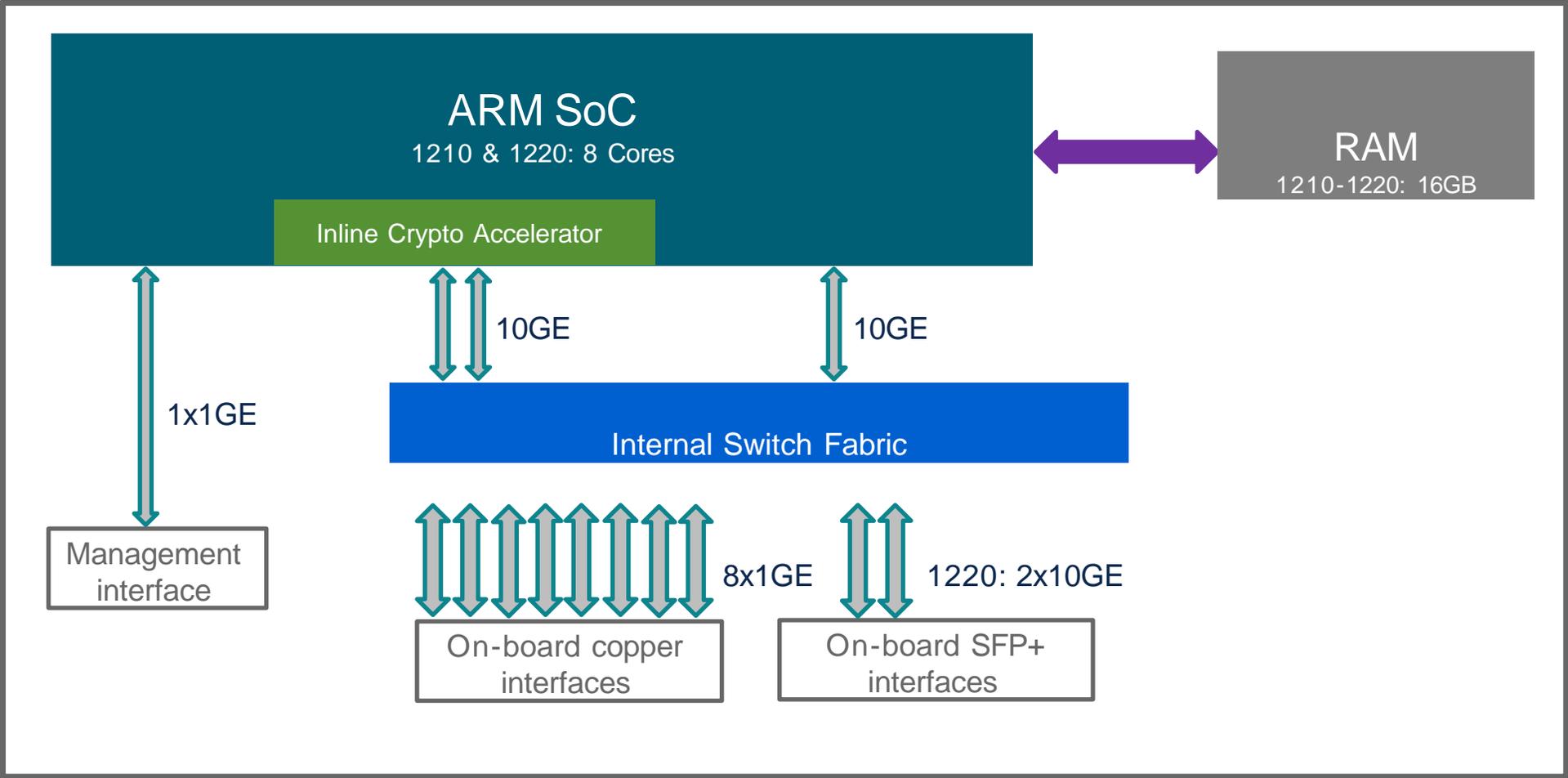
Cisco Secure Integrations

Secure Firewall 1200C Series Overview

Desktop form factor; optional rack mounting kit
Quiet fan for active cooling
External “brick-style” AC power adapter



Secure Firewall 1200C Series Architecture



Secure Firewall 1200C Performance

Model	Interfaces	PoE	FTD (FW+AVC+IPS) 1024B	FTD IPSec VPN 1024B FastPath	FTD TLS Decrypt/inspect
CSF1210CE	8x 1000BASE-T	-	6 Gbps	5 Gbps	1.0 Gbps
CSF1210CP	8x 1000BASE-T	4x UPoE+ (120W)	6 Gbps	5 Gbps	1.0 Gbps
CSF1220CX	8x 1000BASE-T, 2x SFP+	-	9 Gbps	9 Gbps	1.5 Gbps

Performance estimates are subject to change in final release.

Secure Firewall 4200 Series Appliance Multi-Instance & New Network Module



Secure Firewall 4200 Series Multi-Instance

4200 series Multi-Instance feature functionality is identical to the Secure Firewall 3100 series, but it differs in the number of instances supported:

Secure Firewall Platform		Maximum Instance Count
4215		10
4225		14
4245		34

Also,

- New in this release is the ability to Convert the device from Native to Multi-Instance mode in FMC

2-Port 400 Gigabit Network Module

- Support for higher bandwidth requirements with a new 2-Port 400Gbps Network Module
- Hot pluggable – 2 x 40/100/200/400G
- Max. Bandwidth – 800Gbps (Full-duplex)



Orderable PID	Description	Minimum FMC Version	Minimum FTD Version	Minimum ASA Version	Supported Platform
FPR4K-XNM-2X400G	2-port 40/100/200/400G QSFP/QSFP28/QSFP56/QSFP-DD	7.6.0	7.6.0	9.22.1	Secure Firewall 4200 Series

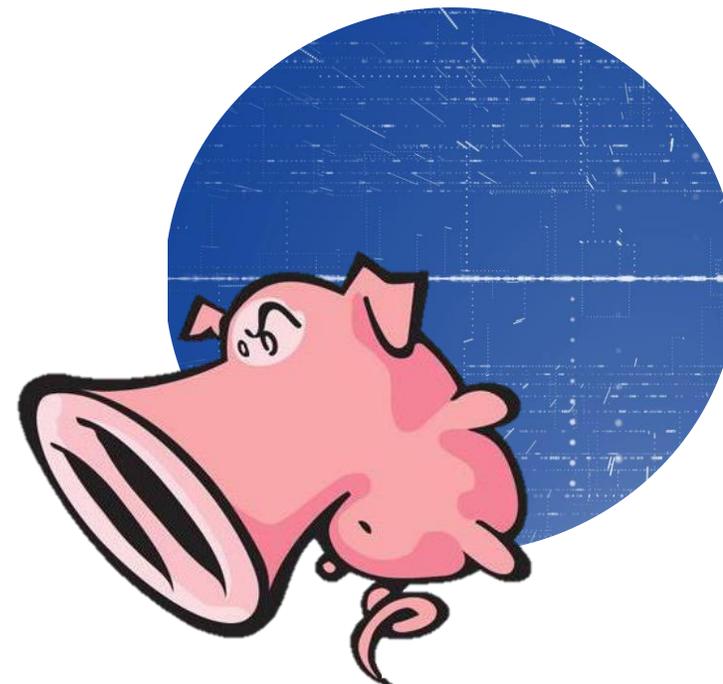
Secure Firewall Threat Defense v7.6



Machine Learning **Exploit** Detection

SnortML

- Traditional IPS rules are based on known and fixed patterns
 - Slight changes to payload patterns can evade static signatures
 - Undisclosed or new vulnerabilities take time to become signatures
- Neural detector uses **machine learning** to expand IPS capabilities
 - Detects known vulnerabilities and possible 0-days
 - Variants of known attack types without an individual Snort rule
 - Snort module looking at HTTP requests
- Machine learning algorithm trained continuously by Talos and delivered as a model file via LSP updates



Security Event Contextual Enrichment

Firewall Management Center
Analysis / Unified Events

Overview Analysis Policies Devices Objects Integration Deploy

Search... Refresh

116 350 353 350 350 1,626 events 2024-01-30 15:33:41 EST 2024-01-30 15:35:48 EST 2m 7s Live

Time	Event Type	Action	MITRE ATT&CK	Reason	Source IP	Destination IP	Source Port / ICMP Type	Destination Port / ICMP Code	
2024-01-30 15:35:35	Security-Related Conn	Interactive Block	●●●●●●●●	File Block	52.10.136.3	2001:db8:3333:4444:5...	38799 / ipv6	210 / ipv6	⋮
2024-01-30 15:35:35	Intrusion	Would reject	●	Interface in Passive or Tap ...	52.10.136.3	2001:db8:3333:4444:5...	38799 / ipv6	210 / ipv6	⋮
2024-01-30 15:35:35	File	Malware Cloud Looku	MITRE ATT&CK for Enterprise <ul style="list-style-type: none"> TA0043: Reconnaissance TA0042: Resource Development ● TA0001: Initial Access TA0002: Execution TA0003: Persistence TA0004: Privilege Escalation TA0005: Defense Evasion TA0006: Credential Access TA0007: Discovery TA0008: Lateral Movement TA0009: Collection TA0011: Command and Control TA0010: Exfiltration TA0040: Impact 	Block, File Monitor	1200::ffff:c0a8:80e4	1400::ffff:a0a:0	22583 / ipv6	40011 / ipv6	⋮
2024-01-30 15:35:35	Malware	Malware Cloud Looku		Block, File Monitor	1200::ffff:c0a8:80e4	1400::ffff:a0a:0	22583 / ipv6	40011 / ipv6	⋮
2024-01-30 15:35:35	Security-Related Conn	Sinkhole		Block, File Monitor	34.218.27.2	2001:db8:3333:4444:5...	20038::	349::	⋮
2024-01-30 15:35:35	Intrusion	React		Interface in Passive or Tap ...	34.218.27.2	2001:db8:3333:4444:5...	20038::	349::	⋮
2024-01-30 15:35:35	File	Detect		Block, File Monitor	1200::ffff:c0a8:80e4	1400::ffff:a0a:0	46077 / tcp	12884 / tcp	⋮
2024-01-30 15:35:35	Malware	Detect		Block, File Monitor	1200::ffff:c0a8:80e4	1400::ffff:a0a:0	46077 / tcp	12884 / tcp	⋮
2024-01-30 15:35:35	Connection	Monitor		Block, Intrusion Monitor	192.168.0.21	::1234:5682	41081 / udp	573 (banyan-vi...	⋮
2024-01-30 15:35:35	Connection	Pending		Block	2001:db8:3333:4444:5...	fe80::250:56ff:fe86:1b6b	37518 / tcp	700 / tcp	⋮
2024-01-30 15:35:35	Connection	Fastpath		Intrusion Monitor	34.218.27.2	192.168.128.234	25812 / tcp	30 / tcp	⋮
2024-01-30 15:35:35	Connection	Fastpath		Block, File Monitor	34.218.27.2	fe80:250:aaaf:fe86:1b6...	17188 / ipv6	672 / ipv6	⋮
2024-01-30 15:35:35	Connection	Pending	File Block	File Block	fe80::250:56ff:fe86:1b63	10.10.0.6	31 (Datagram C...	10 / icmp	⋮
2024-01-30 15:35:35	Connection	Trust	●●●●●●●●	Intrusion Monitor	192.168.0.7	fe80::250:56ff:fe86:1b6c	10143 / udp	353 (ndsauth) /...	⋮
2024-01-30 15:35:35	Connection	Interactive Block with Reset	●●●●●●●●	IP Block	52.10.136.3	192.168.0.5	1375 / tcp	859 / tcp	⋮
2024-01-30 15:35:35	Connection	Interactive Block with Reset	●●●●●●●●	File Block	fe80:250:aaaf:fe86:1b63::	fe80::250:56ff:fe86:1b6c	32938::	367::	⋮
2024-01-30 15:35:35	Security-Related Conn	Monitor	●●●●●●●●	IP Block, Intrusion Monitor	192.168.0.21	::1234:5682	41081 / udp	573 (banyan-vi...	⋮
2024-01-30 15:35:35	Security-Related Conn	Pending	●●●●●●●●	IP Block	2001:db8:3333:4444:5...	fe80::250:56ff:fe86:1b6b	37518 / tcp	700 / tcp	⋮

Security Event Contextual Enrichment

The screenshot shows the Firewall Management Center interface. At the top, there are navigation tabs: Overview, Analysis (selected), Policies, Devices, Objects, and Integration. A search bar and a 'Refresh' button are also present. Below the navigation, there's a table of security events. The table has columns for Time, Event Type, Action, MITRE ATT&CK, Reason, and Source IP. A red box highlights a left arrow icon in the first row of the table. A tooltip for 'MITRE ATT&CK for Enterprise' is visible, listing various techniques like TA0043, TA0042, TA0001, etc. On the right, the 'Event Details' panel is open, showing 'Filter columns', 'Event Type', 'Time', 'Action', 'Reason', and 'Source IP'. A red box highlights a 'Details' link in the 'Enrichments' section.

Time	Event Type	Action	MITRE ATT&CK	Reason	Source IP
2024-01-30 14:14:45	Connection	Sinkhole	.....	IP Block, File Monitor	52.10.136.3
2024-01-30 14:14:45	Connection	Sinkhole	.....	IP Block, Intrusion Monitor	::1234:5678
2024-01-30 14:14:45	Connection	Monitor	.....	Block	192.168.128.228
2024-01-30 14:14:45	Connection	Domain Not Found	.....	Block, Intrusion Monitor	::1234:5678
2024-01-30 14:14:45	Connection	Interactive Block	.....	Block, File Monitor	2001:db8:3333:4444:5...
2024-01-30 14:14:45	Connection	Fastpath	.....	Intrusion Monitor	52.10.136.3
2024-01-30 14:14:45	Connection	Monitor	.....	Block	fe80:250:aaaf:fe86:1b63::
2024-01-30 14:14:45	Connection	Interactive Block	.....	Block	::1234:5678
2024-01-30 14:14:45	Connection	Block with reset	.....	Block, Intrusion Monitor	fe80::250:56ff:fe86:1b63
2024-01-30 14:14:45	Connection	Fastpath	.....	Block, File Monitor	fe80::250:56ff:fe86:1b63
2024-01-30 14:14:45	Security-Related Conn	Sinkhole	.....	Block, File Monitor	52.10.136.3
2024-01-30 14:14:45	Security-Related Conn	Sinkhole	.....	Block, Intrusion Monitor	::1234:5678
2024-01-30 14:14:45	Security-Related Conn	Monitor	.....	Block	192.168.128.228
2024-01-30 14:14:45	Security-Related Conn	Domain Not Found	.....	IP Block, Intrusion Monitor	::1234:5678
2024-01-30 14:14:45	Security-Related Conn	Interactive Block	.....	IP Block, File Monitor	2001:db8:3333:4444:5...
2024-01-30 14:14:45	Security-Related Conn	Fastpath	.....	Intrusion Monitor	52.10.136.3
2024-01-30 14:14:45	Security-Related Conn	Monitor	.....	IP Block	fe...
2024-01-30 14:14:45	Security-Related Conn	Interactive Block	.....	File Block	::

The screenshot shows the MITRE ATT&CK website. The top navigation bar includes 'Matrices', 'Tactics', 'Techniques', 'Defenses', 'CTI', 'Resources', 'Benefactors', and 'Blog'. A search bar is on the right. The main content area is titled 'TECHNIQUES' and shows 'Drive-by Compromise' selected. The technique description states: 'Adversaries may gain access to a system through a user visiting a website over the normal course of browsing. With this technique, the user's web browser is typically targeted for exploitation, but adversaries may also use compromised websites for non-exploitation behavior such as acquiring Application Access Token.' It lists multiple ways of delivering exploit code, including Drive-by Target, and provides a list of examples: a legitimate website with malicious code, script files from a public cloud storage bucket, malicious ads, and built-in web application interfaces. On the right, a metadata box shows: ID: T1189, Sub-techniques: No sub-techniques, Tactic: Initial Access, Platforms: Linux, SaaS, Windows, macOS, Contributors: Jeff Sakowicz, Microsoft Identity Developer Platform Services, Saisha Agrawal, Microsoft Threat Intelligent Center (MSTIC), Version: 1.5, Created: 18 April 2018, Last Modified: 14 April 2023.

Decryption Tuning and Simplification

- Enhanced **decryption policy** wizard
 - New Decryption Exclusions section
 - Bypass decryption for sensitive URL categories (not enabled by default)
 - Quickly Add/Remove categories
 - Bypass decryption for undecryptable:
 - Domains
 - Applications

Create Decryption Policy

1 Policy Details
Enter name, description, choose policy type and certificates.

2 Decryption Exclusions
(Optional) Configure exclusions for outbound connections.

Bypass decryption for sensitive URL categories
In many environments, certain categories of websites are not inspected for regulatory, compliance or privacy reasons. Please customize the list below to bypass inspection for designated categories.
Note: **URL License is Required**

URL Categories: Health and Medicine × Finance × + Add

Bypass decryption for undecryptable domains
Bypass decryption based on Cisco's list of known undecryptable domains.
Note: **This option is selected by default to allow traffic which cannot be decrypted to remain encrypted. Disabling this option may cause decryption to break for unsupported domains.**

56 Domains included ▾

Bypass decryption for undecryptable applications
Certain enterprise applications are not supported for decryption due to a variety of reasons (Certificate Pinning, Client Certificate Authentication, etc.). Bypass decryption based on Cisco list of known undecryptable applications.
Note: **This option is selected by default to allow traffic which cannot be decrypted to remain encrypted. Disabling this option may cause decryption to break for unsupported applications.**

50 Applications included ▾

Cancel Back Create Policy

Encrypted Visibility Engine Exceptions

- Encrypted Visibility Engine exclusion list
 - New option to define exceptions
 - Two exception categories:
 - Process Name
 - Network Object
- Exceptions can be added directly from the Unified Event Viewer
 - Right-click “reason” column and select “Add EVE Exception Rule”
 - Option to review/modify before saving

Encrypted Visibility Engine ?

Exception List is supported only from threat defense Version 7.6.0 onwards.

About Encrypted Visibility Engine

This encrypted visibility engine (EVE) uses machine learning to provide insights into the encrypted sessions without decrypting them. To use this feature, you require a valid IPS license and feature support is only for Snort 3 devices. [Learn more](#)

Recommended Settings

- [Enable](#) automatic updates for future Cisco Vulnerability Database (VDB) releases.
- [Enable](#) Cisco Success Network.

Encrypted Visibility Engine (EVE)

Use EVE for Application Detection

Allow EVE to assign client applications to processes.

Block Traffic Based on EVE Score

Customize your threshold for blocking traffic based on the EVE scores.

Advanced Mode Block

Very Low Low Medium High Very High

Exception List Add Exception Rule

Serial Number	Process Name	Network Objects	
1	malware-trojan	10.0.0.1	

SD-WAN Simplification

- New wizard-driven topology creation
 - Options for:
 - SD-WAN
 - Route / Policy-based VPNs
 - SASE (Umbrella)
 - Simplified Hub and Spoke topology definition
 - Auto-generation
 - Enable BGP on VPN overlay
 - Summary view of configuration

Create VPN Topology ?

Topology Name *

VPN Type

SD-WAN Topology New

Simplifies and automates the VPN and routing configuration in a hub and spoke topology, enabling SD-WAN capabilities.

Select VPN Topology

Hub and Spoke

[Prerequisites](#)

Route-Based VPN

Secures traffic dynamically between peers based on routing over Virtual Tunnel Interfaces.

Select VPN Topology

Hub and Spoke

Peer to Peer

Policy-Based VPN

Secures traffic between peers based on a static policy using protected networks.

Select VPN Topology

Hub and Spoke

Peer to Peer

Full Mesh

SASE Topology

You cannot configure a SASE topology without configuring Umbrella connection settings. [More info](#) [Configure Umbrella Connector](#)

[Refresh](#)

Cancel
Create

SD-WAN Wizard Summary

- Users can modify any of the sections by clicking on the Edit icon to the right of each step

SD-WAN-Topology ✎
Hub and Spoke Route-Based (VTI) VPN Topology

1 Hubs i

Device san-jose-primary-hub
san-jose-secondary-hub

DVTI outside-ipv4-dvti-1
outside-dvti-ipv4-1

Gateway IP Address 192.0.5.1
192.0.7.1

Spoke Tunnel IP Address Pool Primary-Hub-Spoke-IPs
Secondary-Hub-Spoke-IPs

[Edit](#)

2 Spokes i

Device bengaluru-branch-spoke
chennai-branch-spoke

VPN Interface outside
outside

Local Tunnel (IKE) Identity Key ID: SD-WAN-Topology_bengaluru-branch-spoke
Key ID: SD-WAN-Topology_chennai-branch-spoke

[Edit](#)

3 Authentication Settings i

Authentication Pre-shared Automatic Key

Pre-shared Key Length 24

[Edit](#)

4 SD-WAN Settings

BGP enabled true

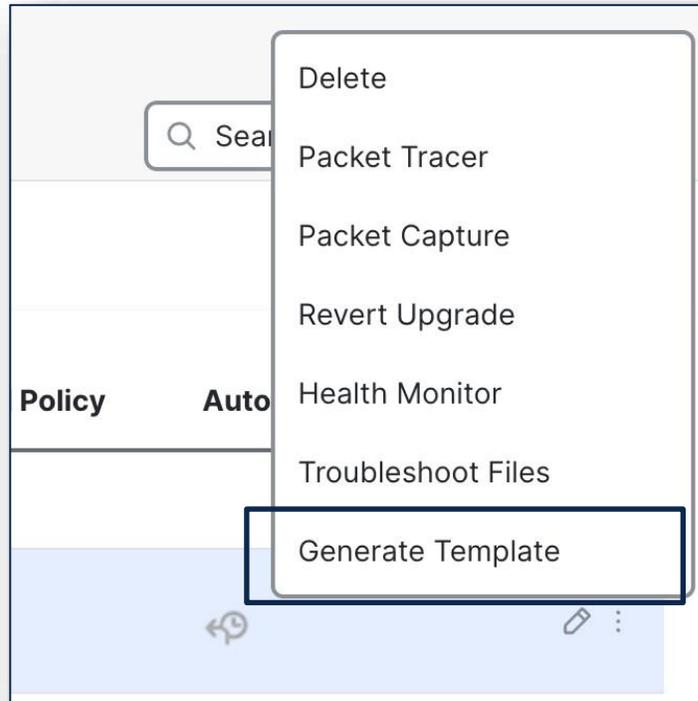
Autonomous System Number 1000

[Edit](#)

Cancel
Finish

Device Templates for Bulk Provisioning

- Simplify SD-WAN/Branch rollouts at scale with Low-touch provisioning and device templates



Create a new template



Generate from an existing device



Clone an existing template from one FMC to another

Device Templates for Bulk Provisioning

- New wizard for **bulk pre-provisioning** of devices using templates

The screenshot displays the Cisco SD-WAN management console interface. On the left is a navigation sidebar with options: Home, Overview, Analysis, Policies, Devices (selected), and Objects. The main content area shows a 'View By: Group' dropdown and a status filter bar with categories: All (3), Error (2), Warning (0), Offline (0), Normal (1), Deployment Pending (2), Upgrade (0), and Snort 3 (2). A search bar and 'Add' button are present. Below the filter bar is a table with columns: Name, Model, Version, Chassis, and Licenses. The table lists two devices under the 'Ungrouped (3)' category, both identified as 'Firewall Threat Defense for VMware' with version 7.6.0. A dropdown menu is open over the 'Add' button, listing options: Device, Device Using Template (highlighted), Cluster, Chassis, High Availability, and Group.

Name	Model	Version	Chassis	Licenses
Ungrouped (3)				
10.10.3.34% Snort 3 10.10.3.34 - Routed	Firewall Threat Defense for VMware	7.6.0	N/A	Essentials, IPS (2 more...)
10.10.3.48 Snort 3 10.10.3.48 - Routed	Firewall Threat Defense for VMware	7.6.0	N/A	Essentials, IPS (2 more...)

Device Templates for Bulk Provisioning

New Add device/devices wizard

The wizard has 4 steps:

1. Device registration method selection
2. Domain Selection
3. Template / Access Policy selection
4. File Upload

The screenshot displays the 'Add Device' wizard interface. On the left, a vertical progress indicator shows four steps: 1. Device Registration Method (highlighted in blue), 2. Domain, 3. Access Control Policy / Template, and 4. Connection Step. The main content area shows two selection options for the registration method: 'Use Registration Key' (with the subtext 'Add a device using the registration key.') and 'Use Serial Number' (with the subtext 'Add devices using the serial number.'). A blue 'Next' button is positioned to the right of the 'Use Serial Number' option. At the bottom right, there are 'Cancel' and 'Add Device' buttons.

Device Templates for Bulk Provisioning

- Domain selection – not applicable if Domains are not in use

The screenshot displays the 'Add Device' wizard interface. It features a progress indicator with two steps: '1 Device Registration Method' and '2 Domain'. The first step is completed, and its details are shown in a green-bordered box: 'Device Registration Method Use Serial Number'. A blue callout box points to this box with the text: 'A summary of previous steps completed is shown as the wizard moves to next'. The second step, 'Domain', is active and highlighted with a blue border. It contains a dropdown menu labeled 'Domain *' with a 'Select...' placeholder and an upward arrow. The dropdown is open, showing a list of domain options: 'Global/AMER', 'Global/APJC/India', 'Global/APJC/Japan', and 'Global/EU/France'. A blue callout box points to the dropdown with the text: 'Select the required domain to register the devices to that domain and click "Next."'. To the right of the dropdown are 'Previous' and 'Next' buttons. At the bottom right of the wizard are 'Cancel' and 'Add Device' buttons.

Device Templates for Bulk Provisioning

- Template selection

Add Device

1 Device Registration Method
Device Registration Method **Use Serial Number**

2 Domain
Domain **Global/APJC/India**

3 Access Control Policy / Template

Choose Onboarding Method

Access Policy

Device Template

Device Template *

Select

Branch Office Template

HQ Template

4 File Upload

Access Control Policy / Template

Choose Onboarding Method

Access Policy

Device Template

Device Template *

Branch Office Template

Access Policy : Branch Access Policy

Supported device models for selected template

Secure Firewall 3105 Threat Defense

Previous Next

Cancel Add Device

Device Templates for Bulk Provisioning

- File Upload – used for provisioning bulk devices

Add Device

- 1 Device Registration Method
Device Registration Method **Use Serial Number**
- 2 Domain
Domain **Global/APJC/India**
- 3 Access Control Policy / Template
Onboarding Method **Device Template** Device Template **Branch Office Template**
- 4 **File Upload**

CSV Sample Template File: [SampleTemplate.csv](#)

Select or drag & drop a CSV file.

Filename:

Processed 2 records.

✔ 2 records passed validation checks

✘ 0 records failed validation checks

✔ No errors are identified in the provided values

DisplayName	SerialNumber	AdminPassword	\$insideIpv4	\$outsideIpv4
FTD1	JADX345410AB	Cl5c05nort	1.1.1.1/25	2.2.2.2/25
FTD2	JADX345670CE	Admin123!	3.3.3.3/25	4.4.4.4/25

Enhanced User Experience

Cisco Cloud Onboarding

Cisco Defense Orchestrator (CDO) has replaced SecureX to allow customers to onboard FMC/FTD to Cisco Security Cloud.

- CDO now authorizes the FMC device to onboard to the cloud.
- SecureX registered FMCs/FTDs will continue to stay connected to Cisco Security Cloud, and for customers that have it enabled prior to 7.6, the integration will be seamlessly migrated over to CDO
- FMC to CDO integration required for advanced cloud features such as Policy Analyzer and AI Assistant

New to Secure Firewall 7.6

- FMC is registered to CDO by enabling Cisco Security Cloud
- CDO authorizes FMC during Cloud Onboarding
- SecureX ribbon is gone

Enhanced User Experience

Policy Analyzer and Optimizer for on-premise and cloud-delivered Firewall Management Center

- Analysis
- Remediation
- Reporting

AC Policy Name	Type	Devices	Total Rules	Observation	Status	Last Modified	Last Analyzed
AC1_724_dec14_demi	ON_PREM_FMC	1	5	0 0% Optimisable	COMPLETED	02/02/2024, 10:28:45	02/02/2024, 16:11:16
register_FTD_7.6.0-13	ON_PREM_FMC	1	6	0 0% Optimisable	COMPLETED	01/02/2024, 23:40:35	02/02/2024, 16:10:34
assigned cdFMC-Poli	ON_PREM_FMC	1	6	9 100% Optimisable	COMPLETED	26/01/2024, 10:31:03	02/02/2024, 16:09:52
register_FTD_7.6.0-13	ON_PREM_FMC	1	2	2 50% Optimisable	COMPLETED	02/02/2024, 15:33:55	02/02/2024, 15:47:35
ACP-rem-report-test	ON_PREM_FMC	0	55	47 64% Optimisable	COMPLETED	02/02/2024, 10:27:27	02/02/2024, 10:30:33
anlokwan-ACP	ON_PREM_FMC	1	2	0 0% Optimisable	COMPLETED	02/02/2024, 10:26:31	02/02/2024, 10:30:33
register_FTD_7.6.0-13	ON_PREM_FMC	1	2	2 50% Optimisable	COMPLETED	29/01/2024, 10:35:42	02/02/2024, 10:10:47
clone_ACP	ON_PREM_FMC	0	4	7 100% Optimisable	COMPLETED	02/02/2024, 00:19:16	02/02/2024, 10:10:43
register_FTD_7.6.0-13	ON_PREM_FMC	1	0	0 0% Optimisable	COMPLETED	31/01/2024, 21:13:06	02/02/2024, 10:10:43
BLR_Scale_policy1	ON_PREM_FMC	1	11	6 45% Optimisable	COMPLETED	24/01/2024, 07:57:54	02/02/2024, 10:10:06
BLR_Scale_policy2	ON_PREM_FMC	1	11	6 45% Optimisable	COMPLETED	24/01/2024, 07:57:54	02/02/2024, 10:10:06

* For On Prem FMC, the FMC should be onboarded/integrated with Cisco Defense Orchestrator.

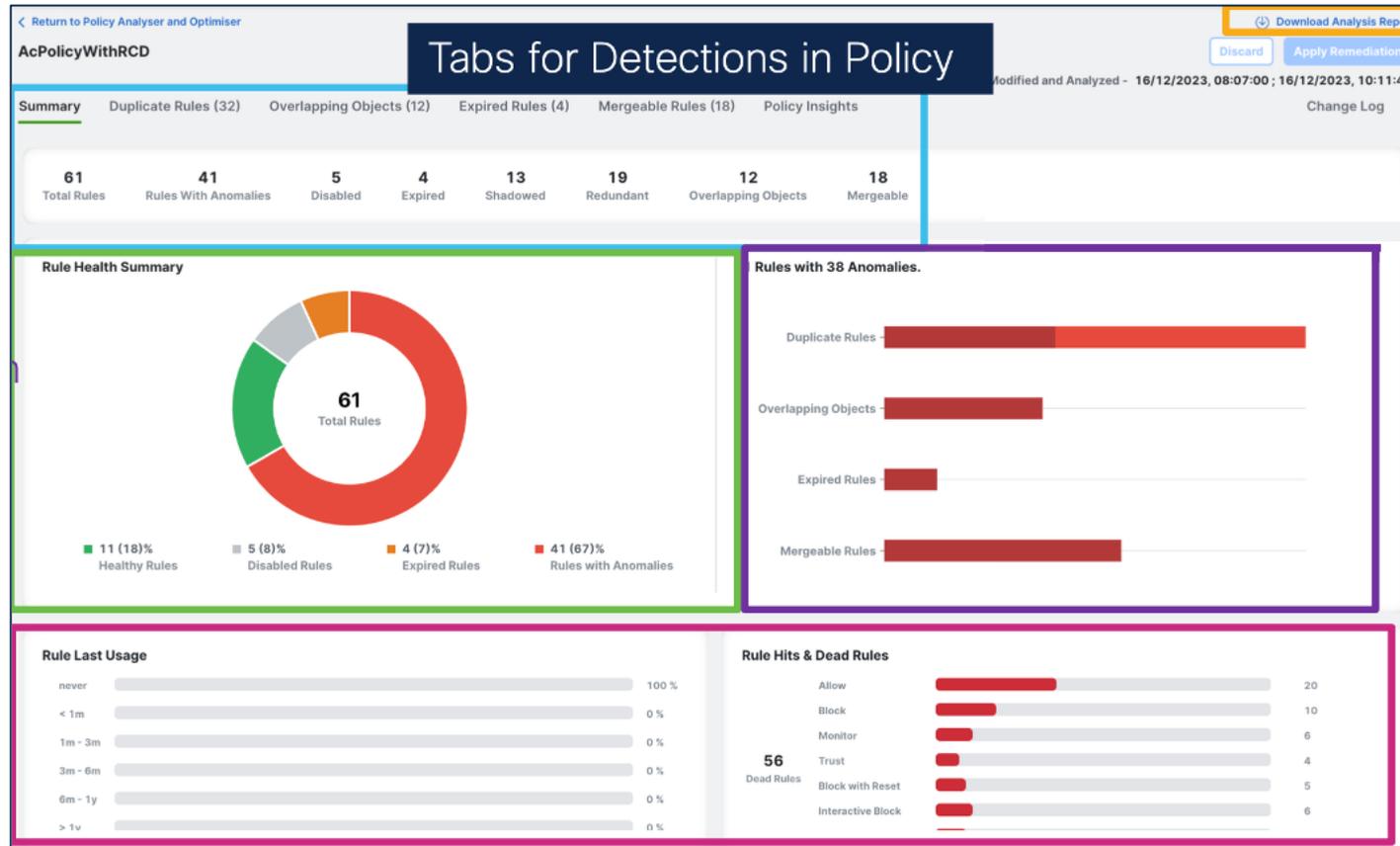
Enhanced User Experience

Policy Analyzer and Optimizer

Rule Health

Graphical Summary

Rule Hit Insights



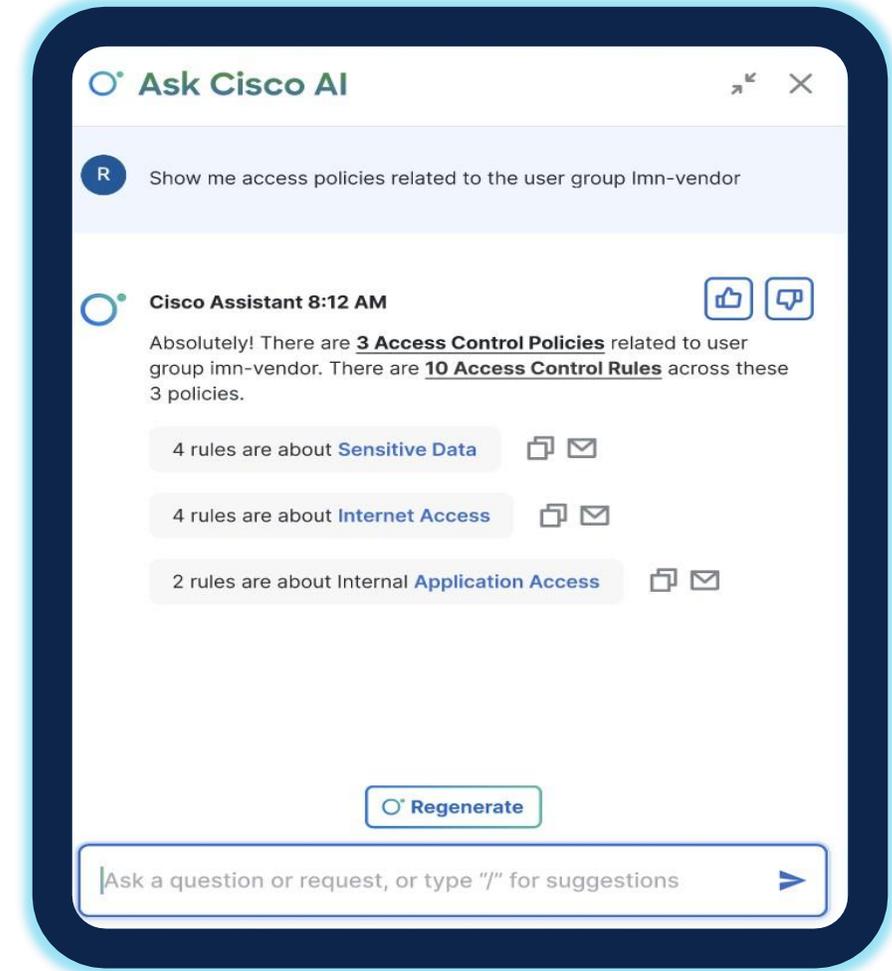
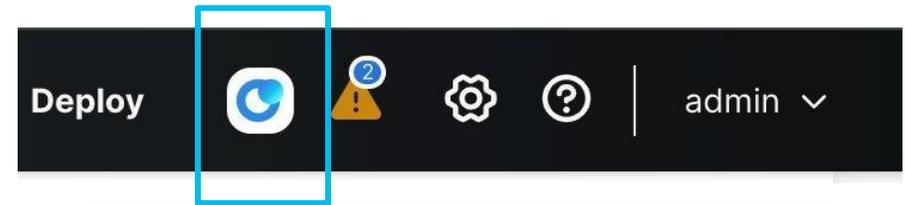
Report Download

Anomalies

Rule Hit Insights

Enhanced User Experience

AI Assistant



Assist

Policy and reporting

Find and report information on policies for faster queries, auditing, and reporting

Augment

Troubleshooting and detection

Amalgamate all user guides for expedited resolution

Automate

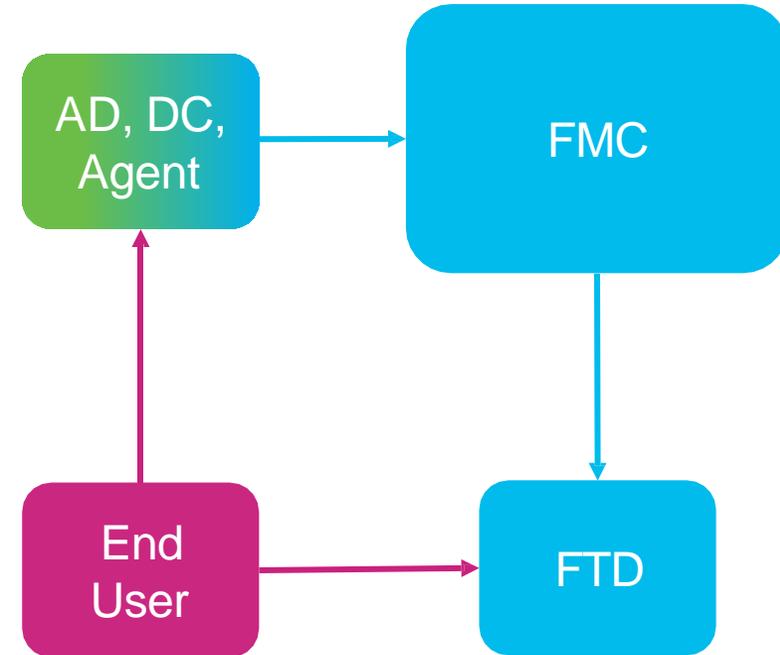
Policy lifecycle management

Find and fix firewall rule misconfigurations for improved security and performance

Identity Enhancements

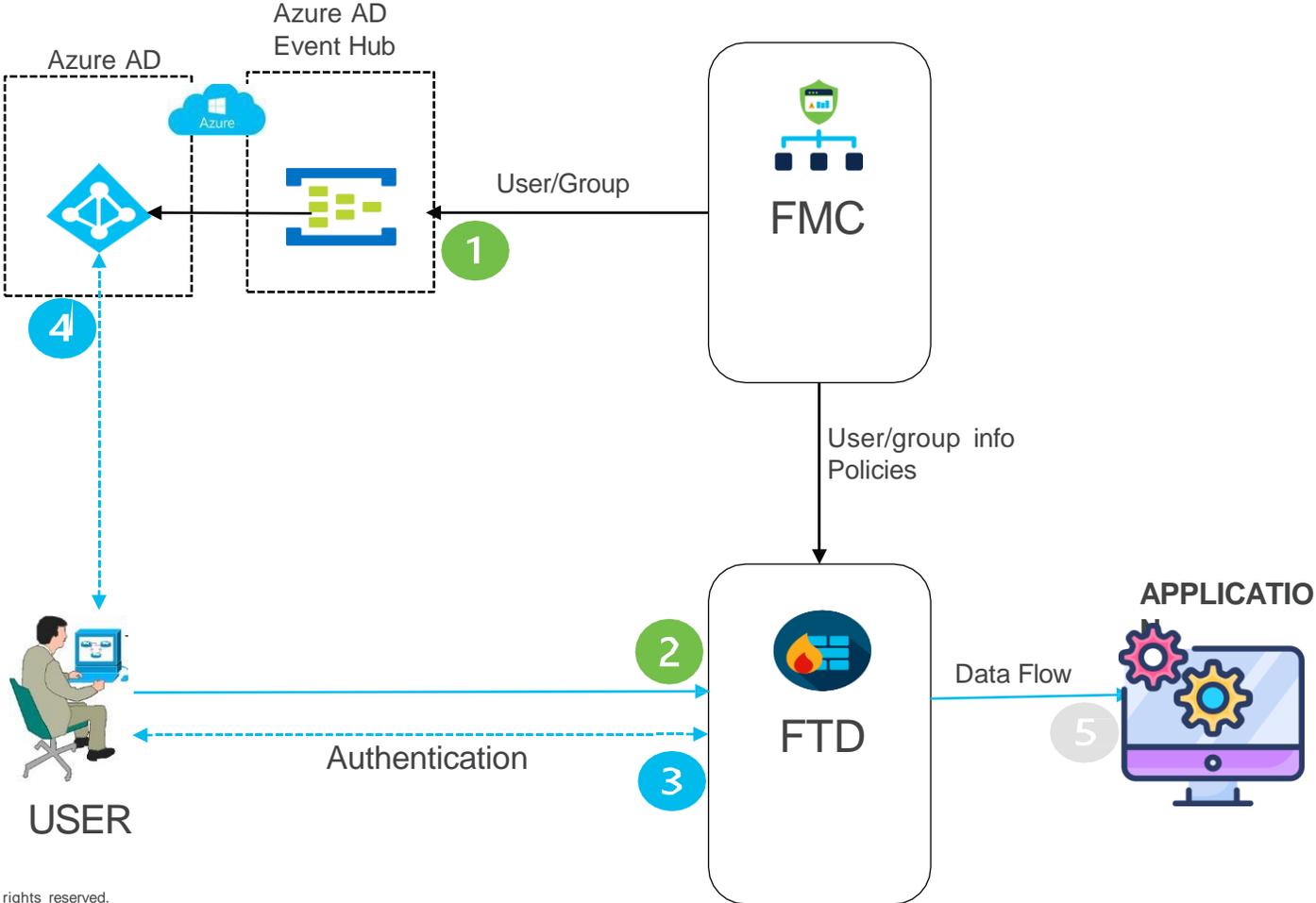
Passive Identity direct from MS Active Directory

- The Passive Identity Agent is an executable which reads end-user log on events from Active Directory (AD) and sends session data to an FMC.
 - The Passive Identity Agent is installed on a Windows machine that is joined to an AD.
- The Agent is configured on FMC and is designed to work with FTDs that are compatible with FMC 7.6.0.



Identity Enhancements

MS Azure Active Directory Active Authorization

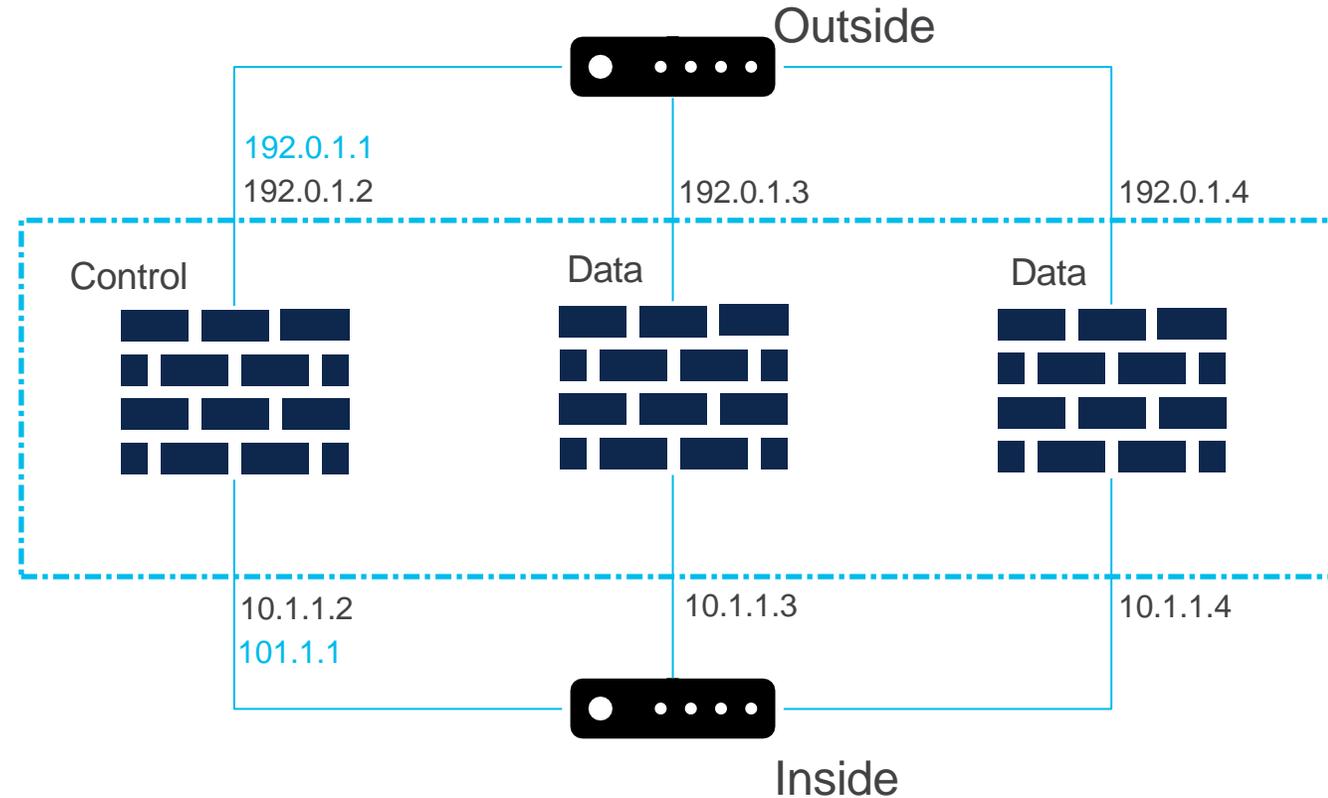


Cluster Enhancements

Layer 3 insertion within hybrid data centers

Individual Interface Mode

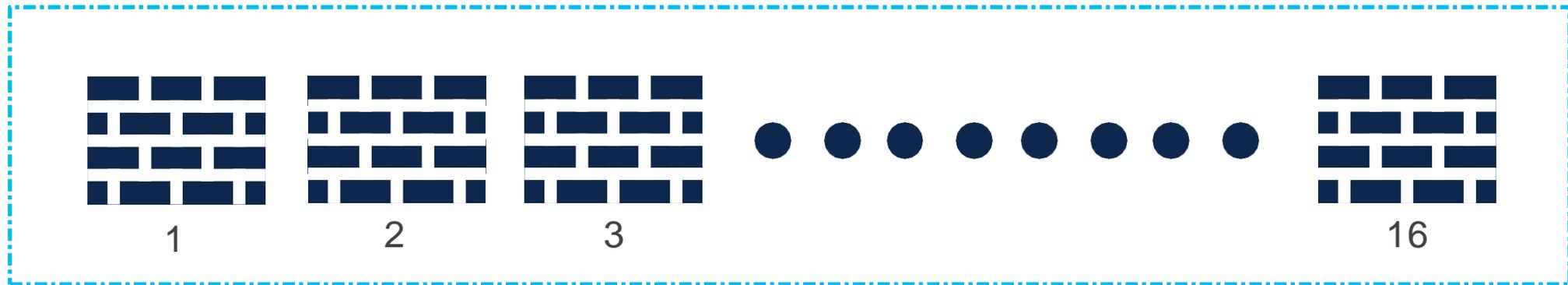
- Layer 3
- Load-balancing via PBR or ECMP
- Routed mode
- 3100/4200/FTDv



Cluster Enhancements

Increased Cluster Scale for 3100 & 4200 series firewalls

- Scale up to 16 nodes (previously 8) in a single cluster
- Superior resilience and performance



Secure Firewall Cluster

Management HA Upgrades

Workflow to Upgrade

Secure Firewall Management Center Upgrade

1 Start — 2 Readiness Checks — 3 Upgrade

1 Upgrade Details Version 7.7.0-1381

Type: Cisco Secure FW Mgmt Center SamplePatch (Patch)
 Release Date: Sat Feb 10 17:49:47 UTC 2024
 Reboot Required: Yes

1 Prechecks

Local

- Disk Space: Passed
- Compatibility: Passed

Remote

- Disk space checks in progress ...
- Compatibility checks in progress ...

HA Synchronization Status

Primary (Remote) Active Healthy Secondary (Local) Standby

IP: 10.10.35.205 (Build 1435) | IP: 10.10.35.199 (Build 1435)

Before You Upgrade

- Read upgrade guidelines and plan for changes.
- Deploy configurations.
- Back up the management center.
- Verify deployment health.
- Check that no tasks are running.

Cancel **Next**

Check the upgrade details

Step 1: Check the local FMCs prechecks result

Step 2: Check the remote FMCs prechecks status

Check FMC HA details & recommendations

Important Points

Step 3: Click 'Next'

Change Management Enhancement

New! Users with both Review and Modify Ticket permissions can take over a ticket and assign it to themselves or to another user (Administrators & Network Admins)

Administrator	Intrusion Admin	Network Admin	Security Approver
Review Ticket Modify Ticket Configuration*	Modify Ticket	Review Ticket Modify Ticket	Review Ticket

Review Ticket >>> User(s) with this permission can assign the ticket to other users. Can also review and approve the tickets of other users

Modify Ticket >>> User(s) with this permission can create and use the ticket to make changes to FMC

New Management User Interface

The screenshot displays the Cisco Firewall Management Center (FMC) Summary Dashboard. The interface includes a navigation sidebar on the left with options like Home, Overview, Analysis, Policies, Devices, Objects, and Integration. The main content area is titled 'Summary Dashboard' and provides a 'Provides a summary of activity on the appliance'.

The dashboard features several widgets:

- Unique Applications over Time:** A line graph showing application activity from 10:20 to 11:10. The y-axis ranges from 0 to 6. The data shows a fluctuating pattern with peaks around 5 and troughs around 2.
- Traffic by Application Risk:** A horizontal bar chart showing total bytes for different risk levels. Medium risk has 8.12 KB, and Low risk has 4.58 KB.
- Traffic by Business Relevance:** A horizontal bar chart showing total bytes for different business relevance levels. Medium relevance has 8.12 KB, and High relevance has 4.58 KB.
- Traffic by Application Category:** A horizontal bar chart showing total bytes for different categories. The 'network protocols/services' category has 8.64 KB.
- Top Web Applications Seen:** A table showing the top web applications. IGMP is the top application with 1.62 KB.
- Top Client Applications Seen:** A table showing the top client applications. NetBIOS-dgm is the top application with 4.58 KB.
- Top Server Applications Seen:** A table showing the top server applications. Apache is the top application with 1 count.
- Top Operating Systems Seen:** A table showing the top operating systems. Linux is the top OS with 3 counts, followed by Android, Chromium, Enterprise Linux, Firepower Management Center Firmware, and FXOS, each with 1 count.

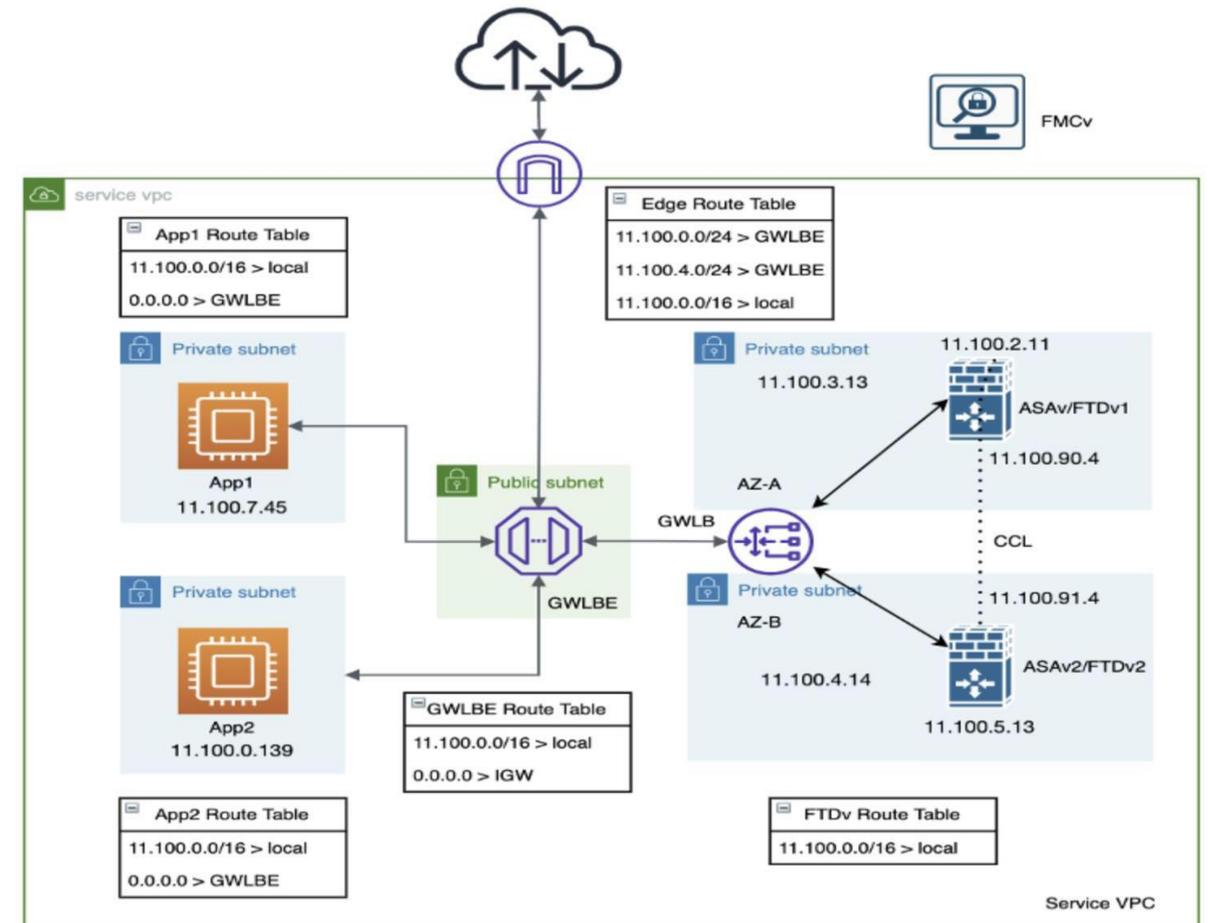
An overlay window titled 'User Preferences' is shown on the right side of the dashboard. It includes a 'Theme' section with three options: 'Light', 'Dusk', and 'New'. The 'New' theme is currently selected. Below the theme options is a 'Log Out' button. At the bottom of the overlay, it displays the last login information: 'Last login from kick-ful-caas4.cisco.com on 2023-12-18 06:39:24'. The user's name 'admin2' is visible in the top right corner of the dashboard.

Public Cloud Updates

Multi-Availability Zone Clustering with Autoscale in Amazon web Services

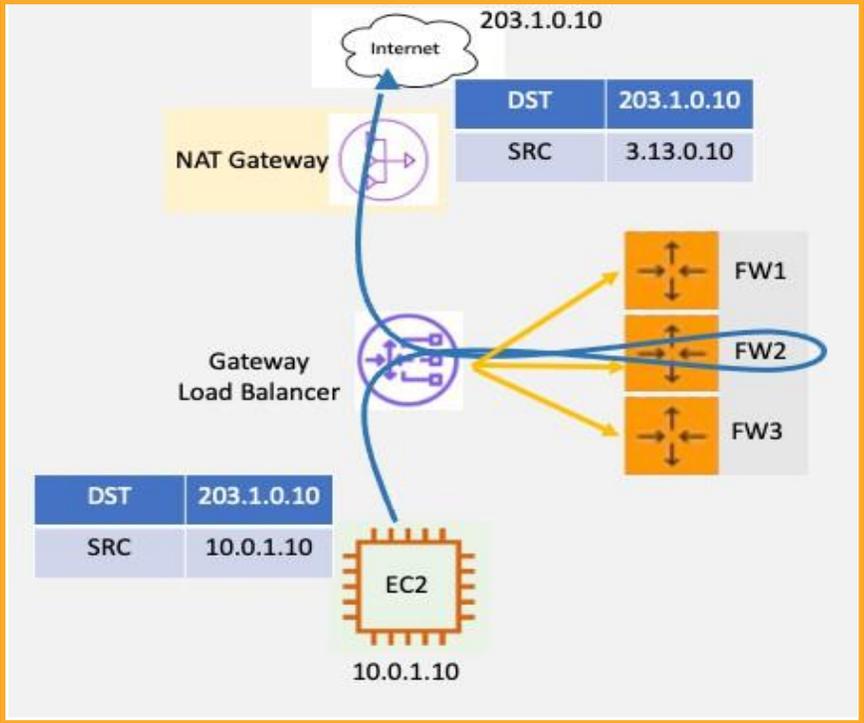
New in FTDv 7.6 / ASAv9.22.1

- ASAv/FTDv Clustering created on different Availability Zones (single or multiple AZ's, based on user requirement, with dynamic scaling enabled)
- Must be in the same Virtual Private Cloud (VPC), and therefore in the same region

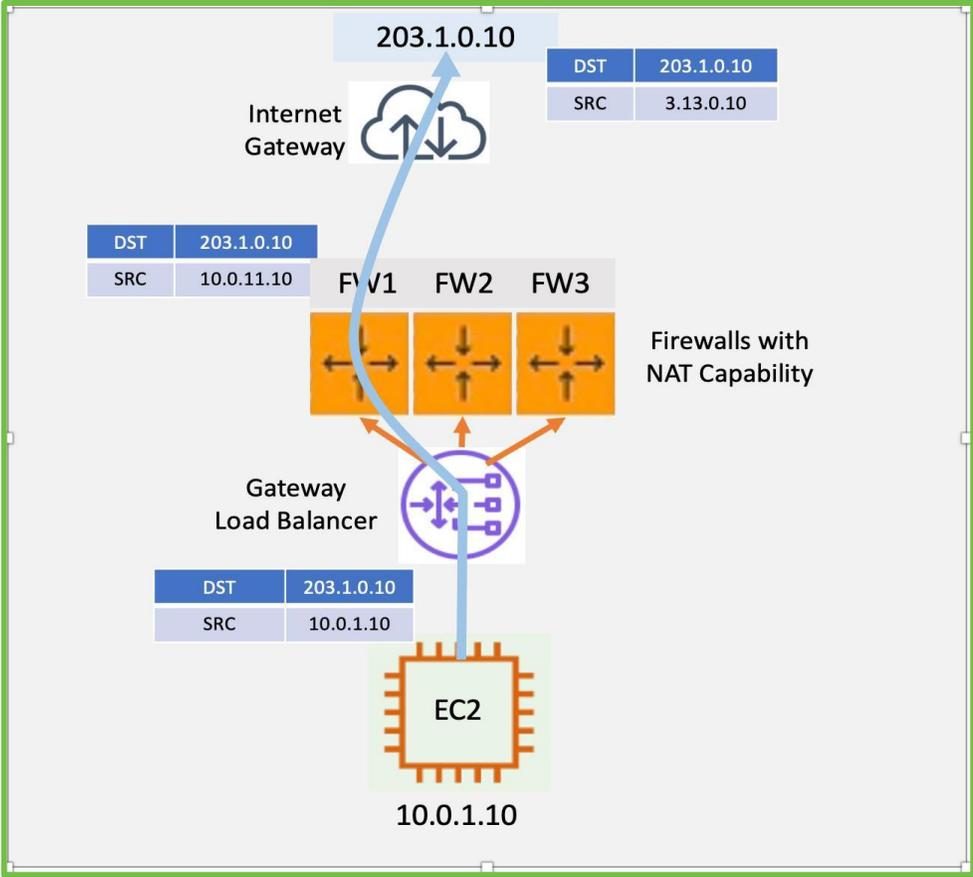


Public Cloud Updates

Dual-Arm Deployment with Gateway Load Balancing in Amazon web Services



AWS GWLB Single-Arm Egress Traffic Flow



NEW: AWS GWLB Dual-Arm Egress Traffic Flow

Additional Resources

Public Information

Accessible & Shareable to Everyone



Cisco Secure Essentials Hub - Is the “Hub” or starting point where users can obtain information on Secure Firewall, Microsegmentation, & by Q4 FY24 – Multicloud Defense



Cisco Secure Firewall & Workload Youtube Channels – These channels provide product deep dives, integrations, release overviews, & highlights



Cisco DevNet Website – Houses various labs where users can learn about Firewall Automation for AWS, Azure, GCP & CDO.



Cisco Developer Website - offers Cloud templates to help users deploy firewalls in their preferred cloud provider environment, & Automation APIs allowing the exchange of security events, data and host information



Internal & Partner Information

Only available to Cisco Employees or Partners



- SalesConnect (Firewall & Workload) – Houses in-depth technical documentation, best-practices, & demonstrations to help stakeholders realize the value of Firewall and Workload.
- Lab licensing



Cisco Security Cloud & Suites



Multiple clouds makes tool sprawl worse

Software as a Service

Applications



Platform as a Service

Services



Infrastructure as a Service



Different platforms, different controls

Introducing Cisco Security Cloud



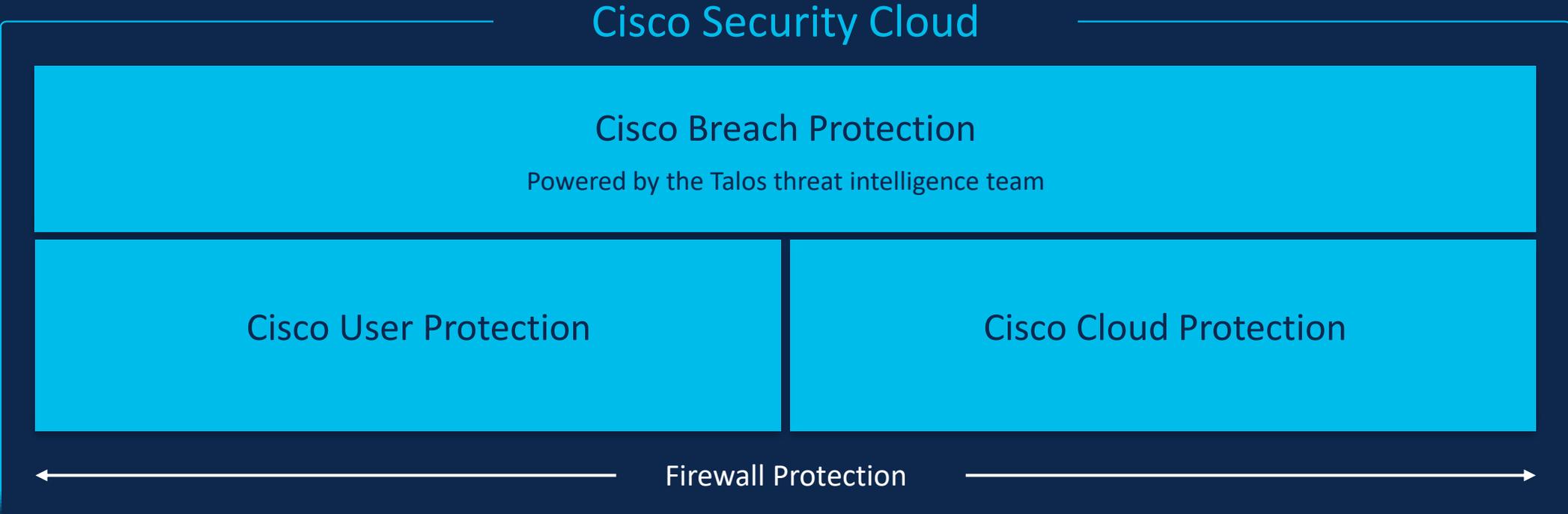
Problem: Product Complexity Across Hybrid Environments

Security Focuses on Siloed Outcomes



In dynamic environments, “misconfigurations” are often deliberate trade-offs

Security that only Cisco can deliver



Cisco Security Cloud

Cisco Breach Protection

Extended Detection & Response

Cisco User Protection

Posture & Auth Management

Endpoint Security

Email Security

Experience Insights

Remote Browser Isolation

Network Access Control

Security Service Edge

Cisco Cloud Protection

Workload Security

Application Security

Vulnerability Management

Full Stack Observability

Multicloud Defense

Firewall Protection



Cisco Security Suites

Better Efficacy | Better Experiences | Better Economics

User Protection

The Cisco User Protection Suite protects against all attack vectors that target users while providing seamless and secure access to any application, on any device, from anywhere to implement zero trust, with zero friction.

Better Efficacy

Defend against all user attack vectors

Better Experiences

One simple experience for secure access to all apps (not just some)

Better Economics

Centralize policy management for traditional and modern apps

Cloud Protection

Cisco Cloud Protection Suite simplifies operations, optimizes resources, and reduces risk with comprehensive security and pervasive visibility for hybrid and multi-cloud networks, workloads, and applications.

Better Efficacy

Stop lateral movement of attacks

Better Experiences

Simplify multicloud security operations

Better Economics

Consolidate management of security policy

Breach Protection

Cisco Breach Protection Suite empowers security teams to simplify operations and accelerate response across the most prominent attack vectors including email, endpoints, network, and cloud.

Better Efficacy

Detect and respond to sophisticated threats like ransomware

Better Experiences

Significantly accelerate incident response

Better Economics

Achieve Tier 2 outcomes from Tier 1 analysts

Introducing security only Cisco can deliver

Cisco User Protection Suite



Email Threat
Defense



Cisco Secure Access



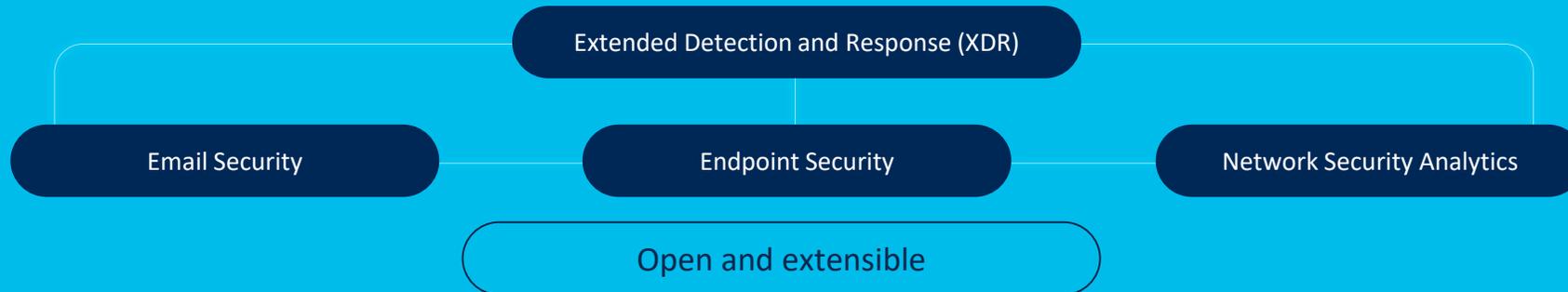
Secure
Endpoint



Duo

Introducing security only Cisco can deliver

Cisco Breach Protection Suite



Cisco XDR



Cisco Email
Threat Defense



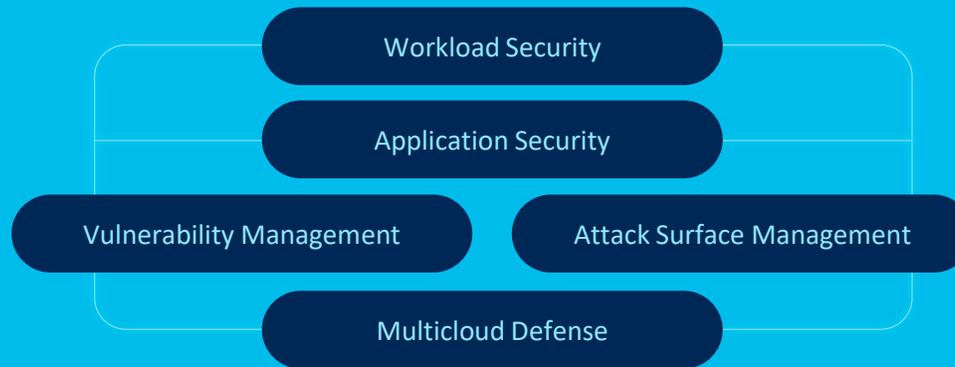
Cisco Secure
Endpoint



Cisco Secure
Network Analytics

Introducing security only Cisco can deliver

Cisco Cloud Protection Suite



Cisco Multicloud
Defense



Cisco
Vulnerability
Management



Cisco Secure
Workload



Cisco Attack
Surface
Management



Cisco Cloud
Application
Security



Talos powers the Cisco portfolio with intelligence

Research and Intelligence

TALOS



500
threat researchers



AI
powered algorithms



550B
security events observed daily

Cisco XDR | 3rd Party Integrations (partial list)



APIVoid



AbuseIPDB
IP Checker



Akamai



AlienVault
Open Threat
Exchange



Amazon
GuardDuty



Bastille
Networks



Censys



Cohesity
Data Cloud



CrowdStrike



CyberCrime
Tracker



Cybereason



Darktrace
Respond
& Detect



Devo



Exabeam



ExtraHop
Reveal(s) 360



Farsight
Security



Google
Chronicle



Generic
Serverless
Relay



Google
Safe
Browsing



Graylog



Have I
Been
Pwned



IBM
X-Force
Exchange



IsItPhishing



Ivanti
Neurons



Jamf Pro



LogRhythm



MISP



Microsoft
Azure AD



Microsoft
Defender
Endpoint



Microsoft
Graph Security



Microsoft
Intune



Palo Alto
Networks
AutoFocus



Palo Alto
Networks
Cortex XDR



PulseDive



Qualys
IOC



Radware
Cloud DDoS
Protection



Radware
Cloud WAF



Recorded
Future



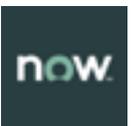
SecureX
CESA Relay



SecurityTrails



SentinelOne
Endpoint



ServiceNow
Threat
Intelligence



Shodan



Signal
Sciences
WAF



Sixgill
Darkfeed



Splunk
Relay module



SpyCloud
Account
Takeover
Prevention



Sumo Logic
Cloud SIEM



Sumo Logic
Log Mgmt



Threatscore
Cyberprotect



Trent Vision
One



VMware
Workspace
ONE UEM



VirusTotal



alphaMountain.ai
Threat Intelligence



urlscan.io

Full Cycle Automated Threat Response and Recovery* Cohesity and Cisco XDR Integration: Extended Detection and Response AND RECOVERY



Adaptive / Proactive Protection Data Classification



* Includes Cohesity as the first data protection solution provider

The Cisco Advantage



Zero trust architecture, with consistent macro and micro-segmentation



Complete protection for all traffic across the network, clouds, and VPCs



Pervasive visibility, validates security posture and prioritize risks to the business

Modernize application security

60%

of attacks involve lateral movement

Cisco Security Cloud Momentum

300K+

security customers

2.8M

new malware samples/day

TALOS

550B

security events observed/day

AI Powered
Detections

Exposed top 3 ransomware 2023
threat campaigns
(Yashma, Rhysida, MortalKobal)

TALOS

200+

vulnerabilities discovered/year



The bridge to possible

Cisco Hypershield



An abstract graphic featuring a dark blue background with a glowing, wavy pattern of blue particles and a network of interconnected nodes and lines. The particles are concentrated in the upper left and right areas, while the network structure is more prominent in the lower right. The overall effect is one of dynamic energy and connectivity.

Cybersecurity
basics are tough.



Segmentation is hard

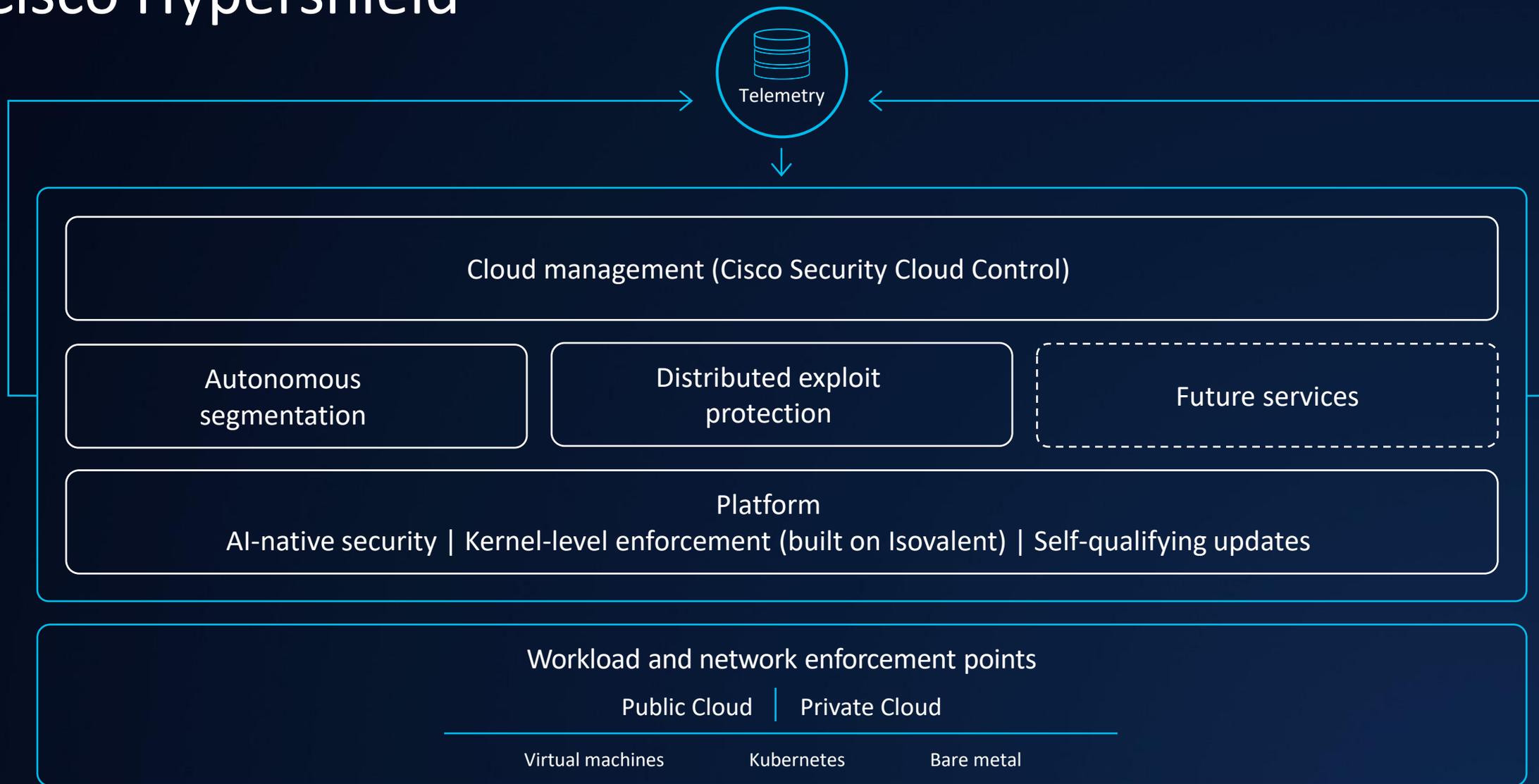


Patching is hard



Upgrading is hard

Cisco Hypershield



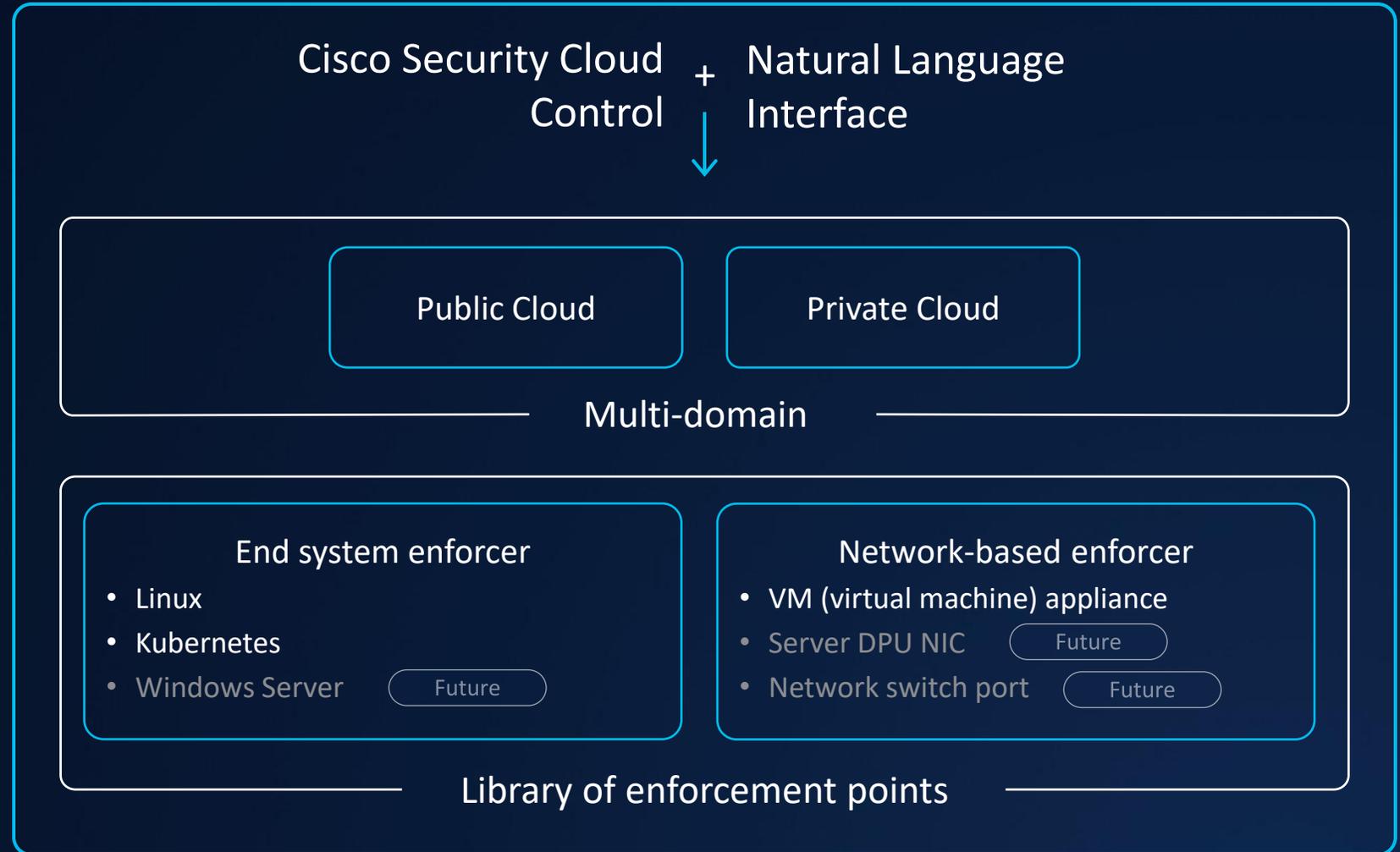
Manage globally, enforce locally

Includes

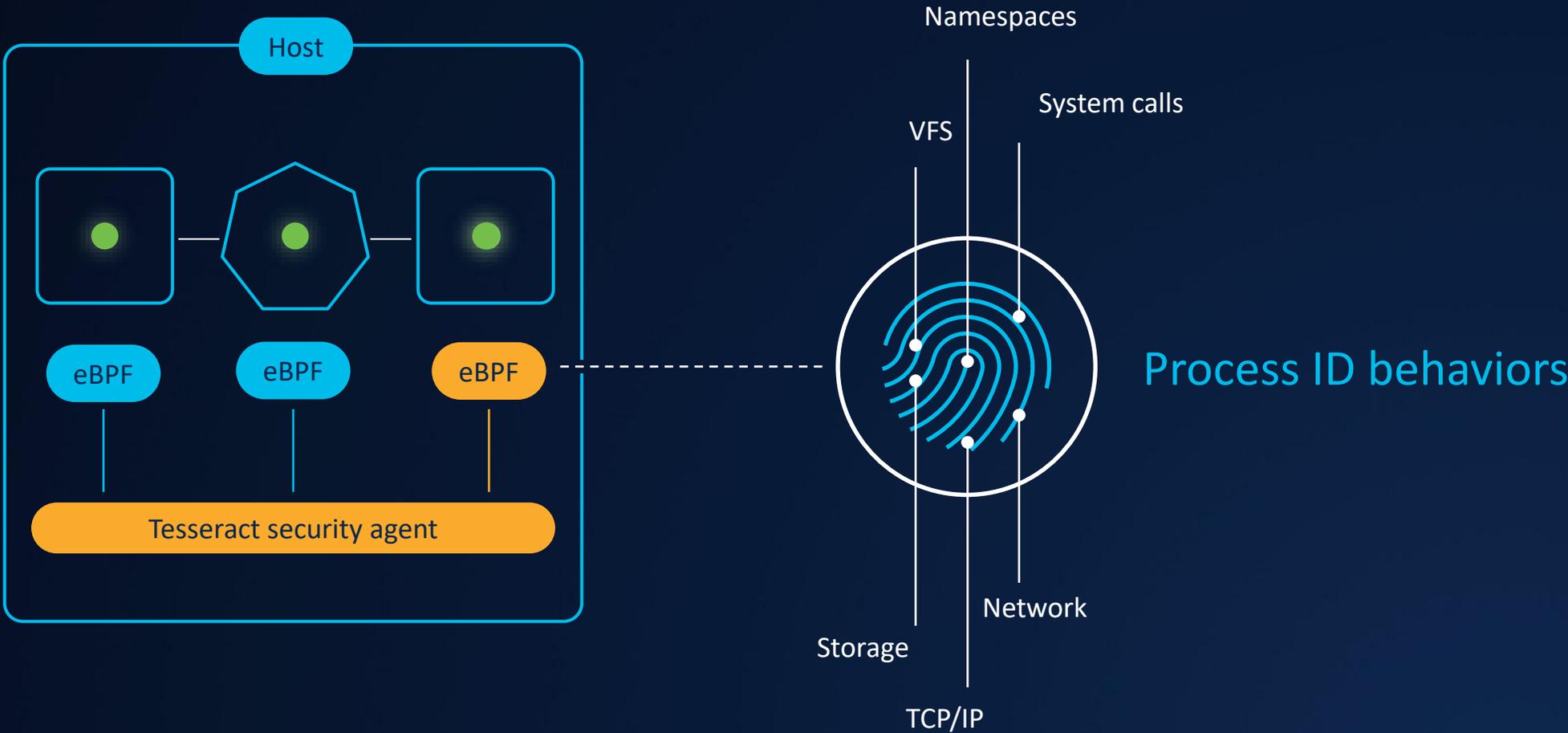
- Unified management
- Single global policy
- Intelligent placement of shields
- Integrations with cloud/app/infra metadata

Environments

- Kubernetes
- Cloud – Private/Public
- On-prem



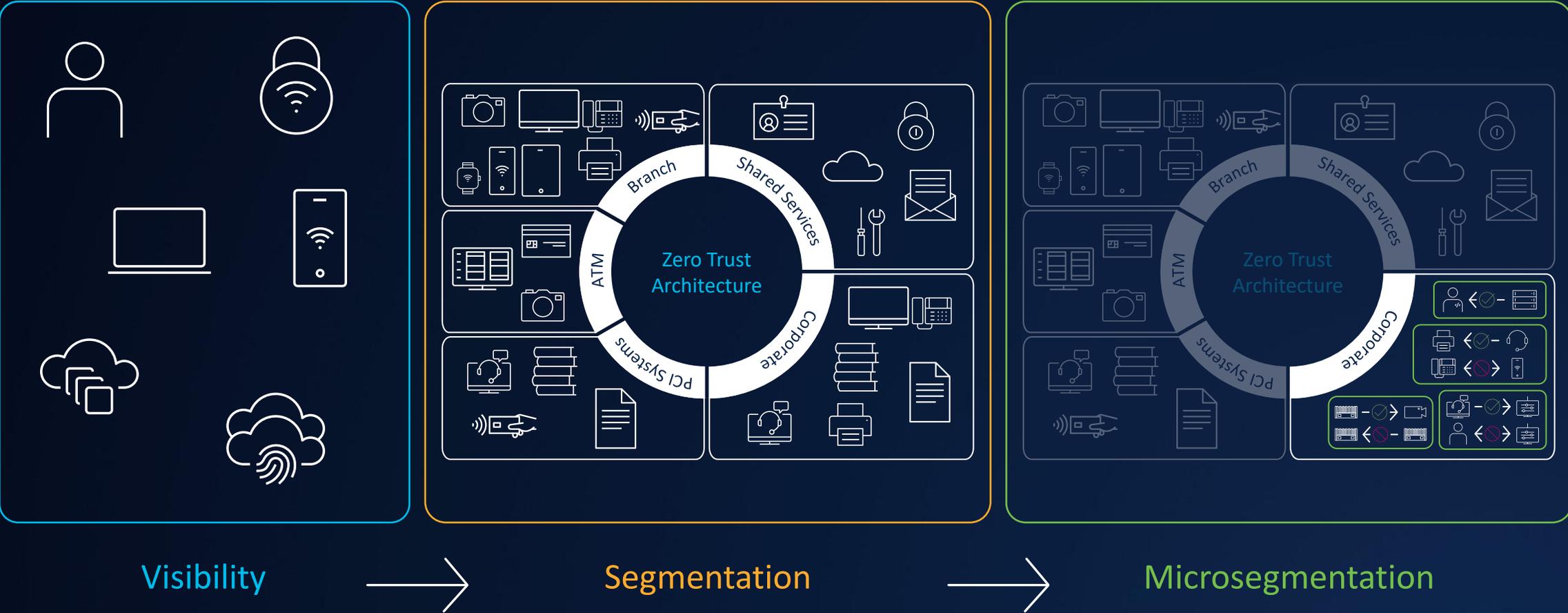
Deep visibility and enforcement in the workload built on Isovalent Tetragon



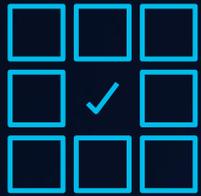
Segmentation
addresses
main customer
concerns



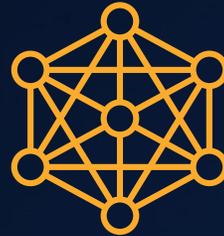
Compliance and reduction of attack surface with microsegmentation



Why Cisco?



Only Cisco provides
network and
application
microsegmentation



Only Cisco offers
persistent and
pervasive
enforcement across all
environments



The entire Cisco
segmentation
portfolio is integrated

Securing the AI-ready Data Center

1

Cisco Security innovation
momentum

Open the conversation with
Cisco Hypershield

2

Every customer is focused
on segmentation

Cisco's segmentation
portfolio is meeting
today's and future needs
– talk to your customer
now

3

Cisco is poised
to win

Understand the
qualification criteria and
position the best suitable
solution



The bridge to possible