



# Hypershield

Mastering Next-Generation Security

Jeroen Wittock - TME

BRKSEC-2265  
Tuesday February 11 4:30PM

CISCO *Live!*



# Webex App

## Questions?

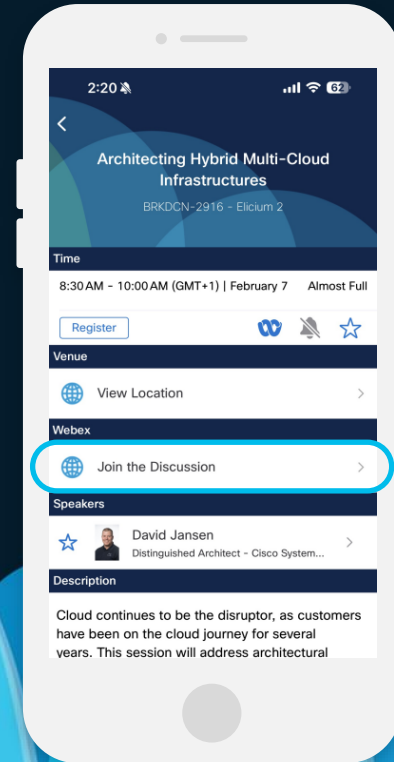
Use the Webex app to chat with the speaker after the session

## How

- 1 Find this session in the Cisco Events mobile app
- 2 Click “Join the Discussion”
- 3 Install the Webex app or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until, at least, February 28, 2025.

**CISCO** *Live!*



# Securing the enterprise is increasingly challenging

## Expanding attack surface

- Explosive workload growth
- Inconsistent enforcement
- Environments keep changing

## Patching is hard

- High vulnerability rate
- Mitigation is too slow
- Ensure app is available

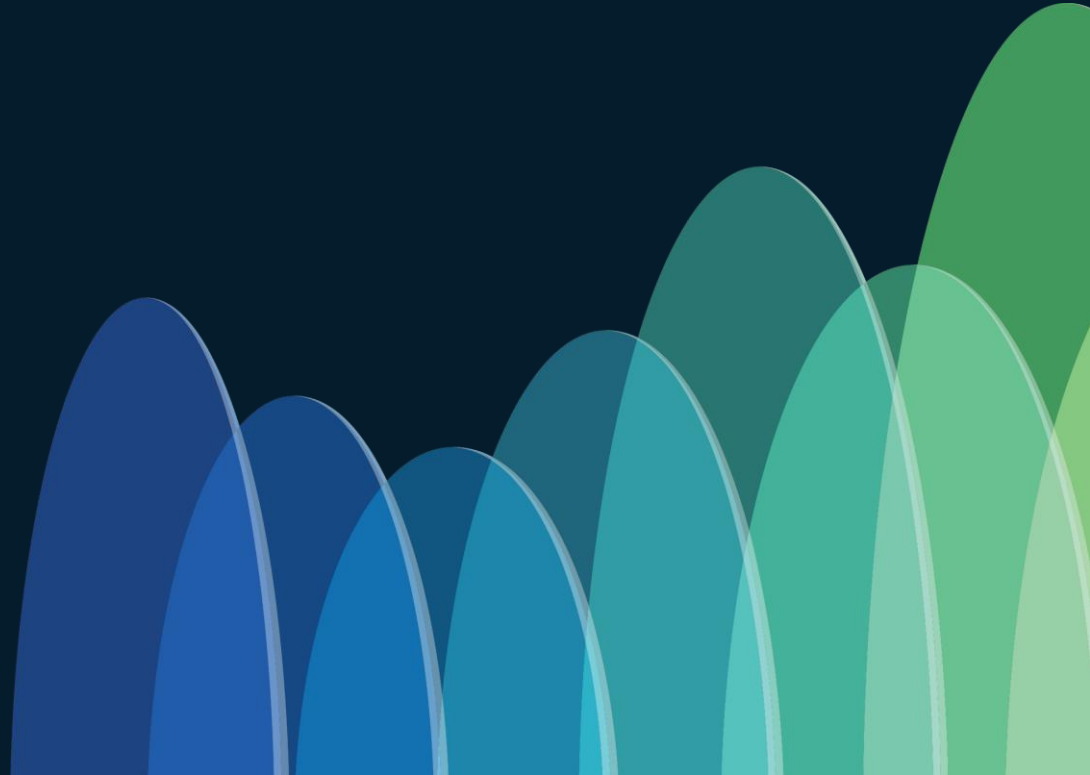
## Change is risky, expensive

- Firmware updates delayed
- Policy changes are behind
- Delayed security posture

# Agenda

- Introduction
- Architecture
  - eBPF
  - AI & Graph Engine
  - Digital Twin
  - API
- Use Case: Autonomous Segmentation
- Use Case: Distributed Exploit Protection

# Hypershield Architecture



# Cloud Protection Suite

## Hybrid Mesh Firewall

Cloud Management (Security Cloud Control)

Major trust boundaries

L7 Threat Protection

AI Model Protection\*

Firewall Threat  
Defense



Multicloud  
Defense



Secure Access  
(FWaaS)\*



Everywhere

Segmentation

Distributed Exploit  
Protection

Hypershield  
(Smart Switch)



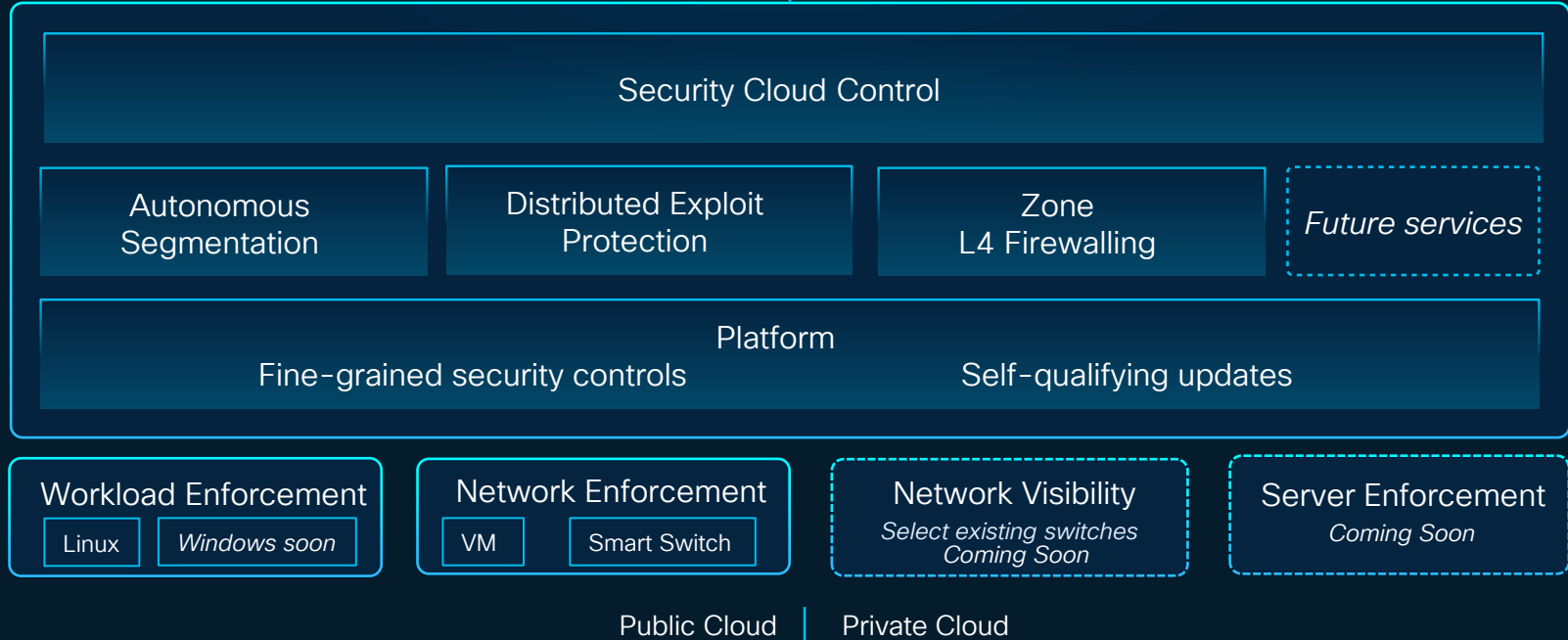
Hypershield  
(Agent)



Secure  
Workload



# Cisco Hypershield



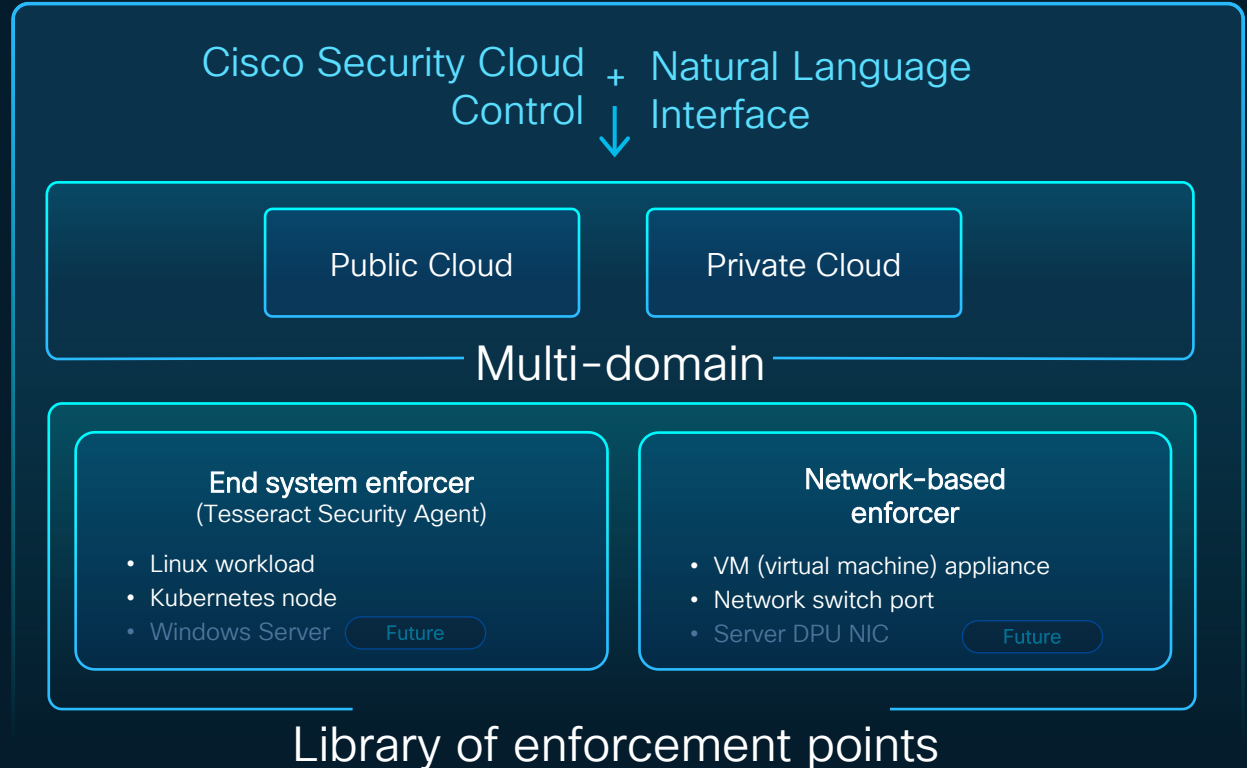
# Manage globally, enforce locally

## Includes

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

## Environments

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





# Tesseract Security Agent

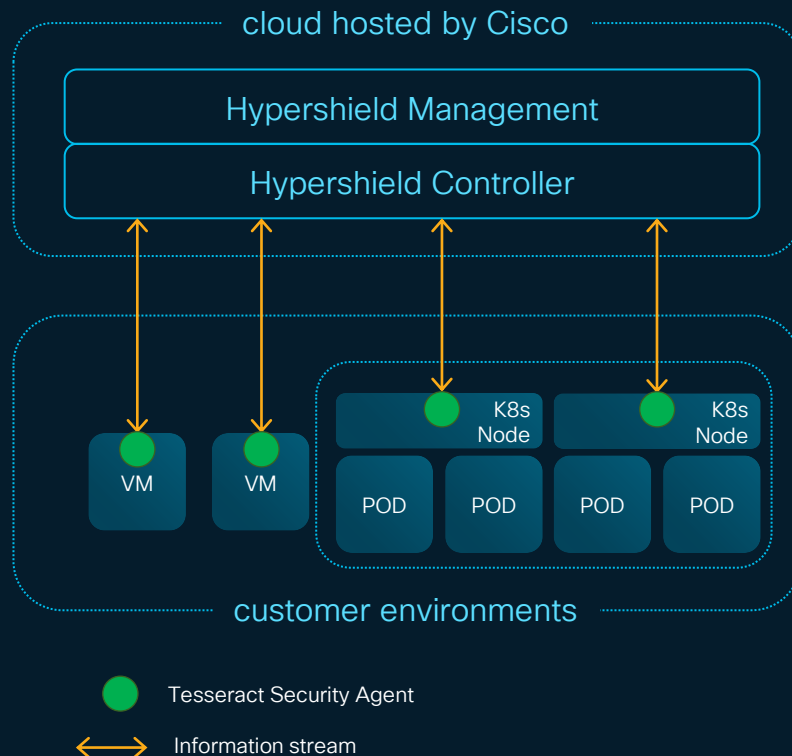
Deployed on customer workloads

On Kubernetes and Linux machines

Managed via Cisco cloud

Distributed analytics, visibility, and control

Covers network, file, execution, and privilege escalations



# Cisco N9300 Smart switch

A platform to enable stateful services

## Network

### N9300 Series Smart Switches



#### Converge stateful services and network

- 800G stateful services throughput and scale
- 24-port 100G
- 4.8T Silicon One + 4 AMD DPU
- 1 RU

## Security

### Cisco Hypershield

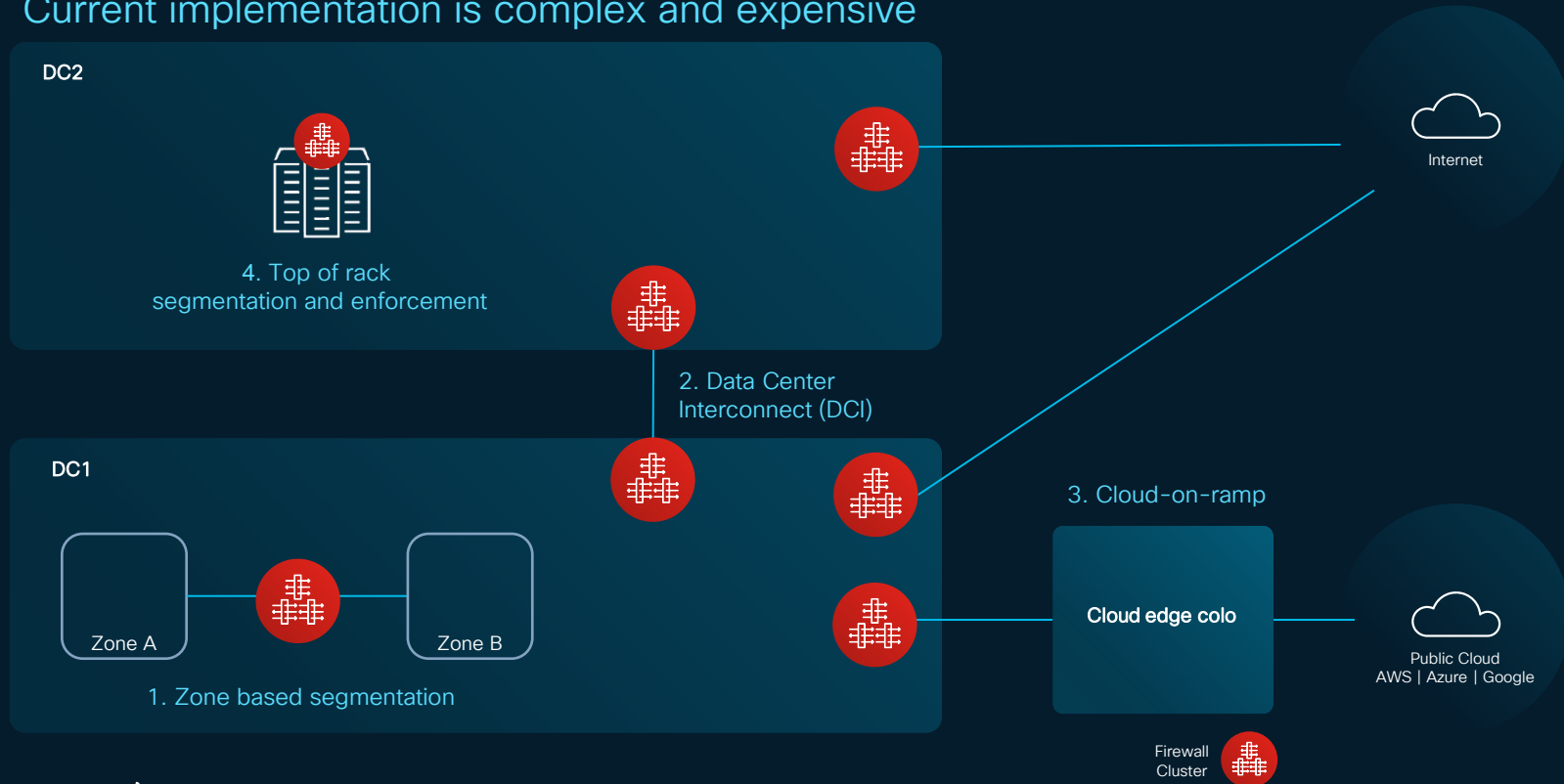


#### Integrated security (license add-on)

- Intelligent security policy placement
- Self-qualifying policy updates
- Policy unified with workload/network enforcement, public and private clouds

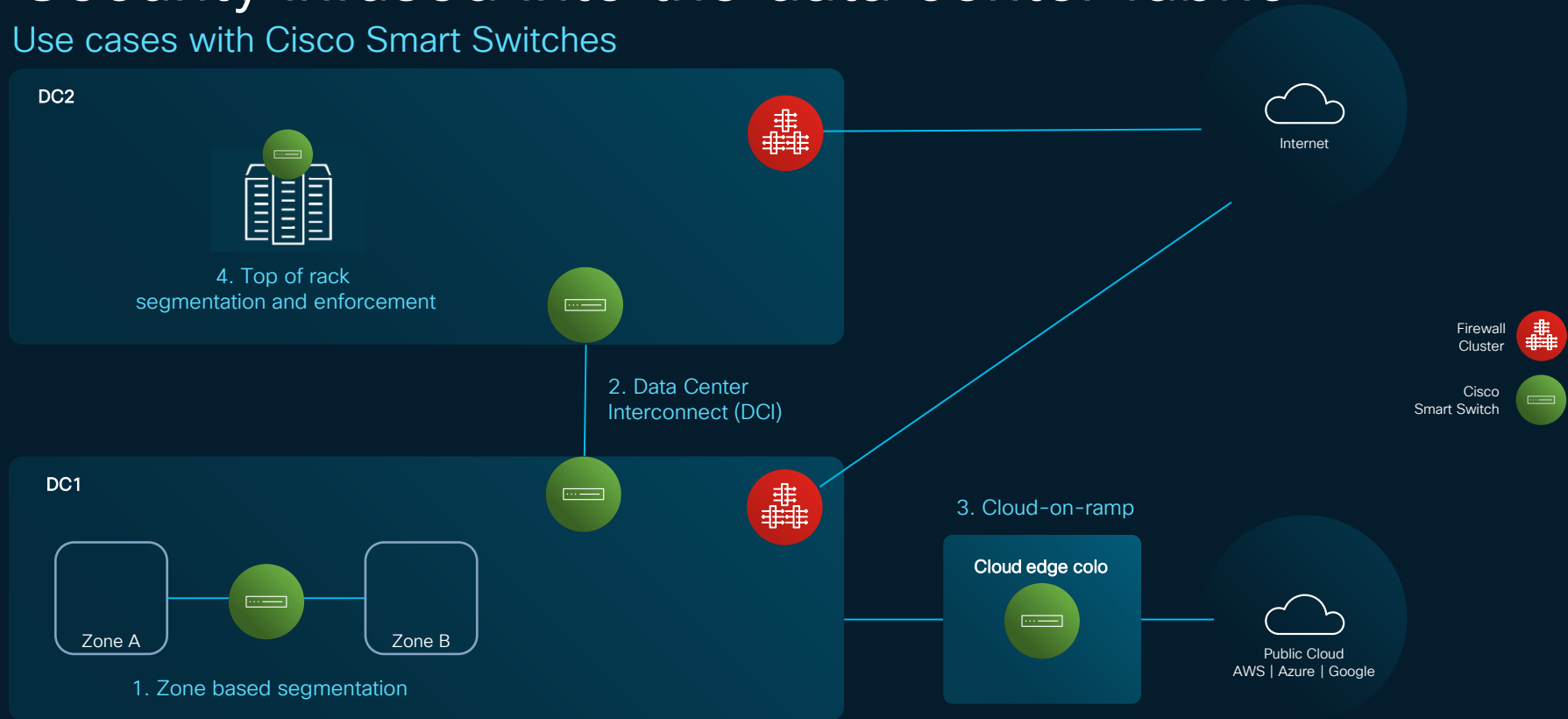
# Security infused into the data center fabric

Current implementation is complex and expensive



# Security infused into the data center fabric

Use cases with Cisco Smart Switches



# Hypershield Policy Model

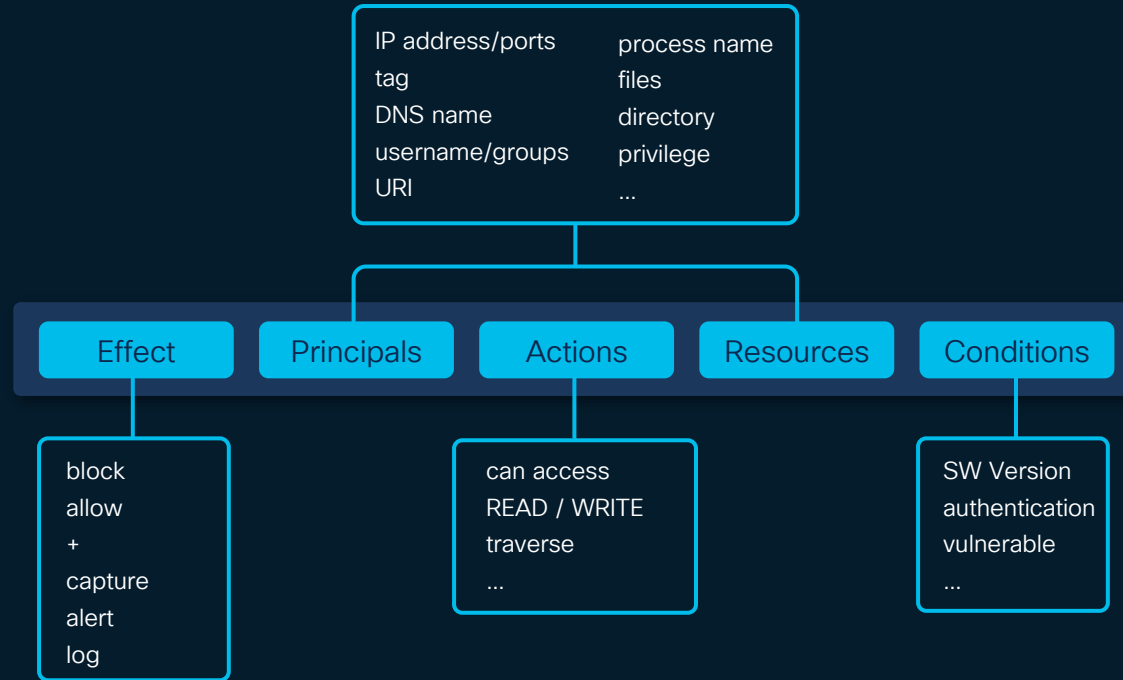
- Declarative Policy Language (PARC) is a **Human readable** model.
- **Automated Reasoning**, especially useful in large scale systems, where doing things manually is near impossible.
- **AI & ML integration**
- Able to define **microsegmentation**
- Able to define **kernel level detail**
- **Scalable**

# Why PARC

Policy as Resource Controls  
Principal Action Resource Condition

- Inspired by AWS Cedar, but:
- Hypershield adds Exceptions to original Cedar Model
- Decision Process:
  - Default Deny
  - Deny Wins, except for conditionals
  - Unordered Policies
  - Apply Effect
- Policies can Include metadata, but no impact to rules themselves

# Single policy covering network and workload



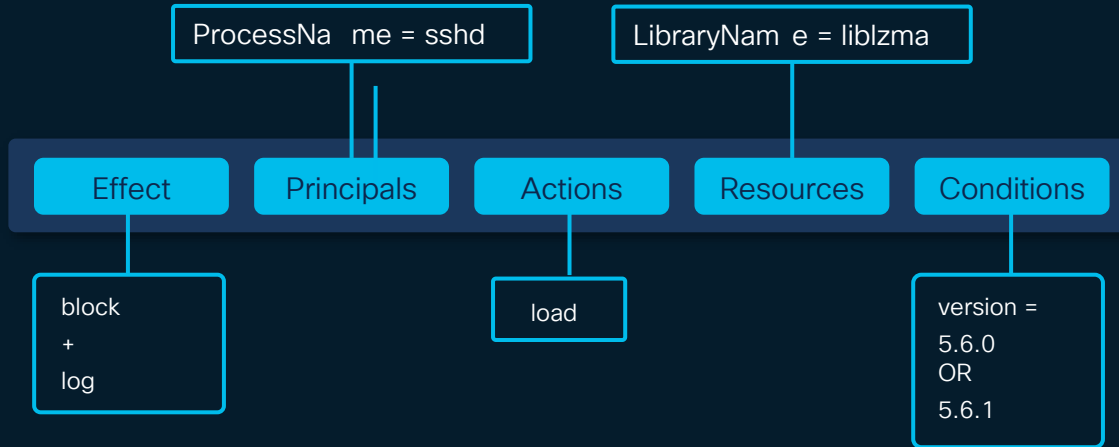
## Hypershield Policy Construct

- Intent based
- Order independent
- Rule Auto-compilation
- Intelligent Rule Placement
- Single Global Policy
- Unified management

# XZ vulnerability example with eBPF

Natural Language:  
Do not allow ssh process to load vulnerable XZ library

Hypershield Global Policy:



TSA (eBPF policy):

```
selectors:
- matchBinaries:
  - operator: "In"
    values:
      - "/usr/sbin/sshd"
matchArgs:
- index: 0
  operator: "Postfix"
  values:
    - "liblzma.so.5.6.0"
    - "liblzma.so.5.6.1"
    . . . . .
```

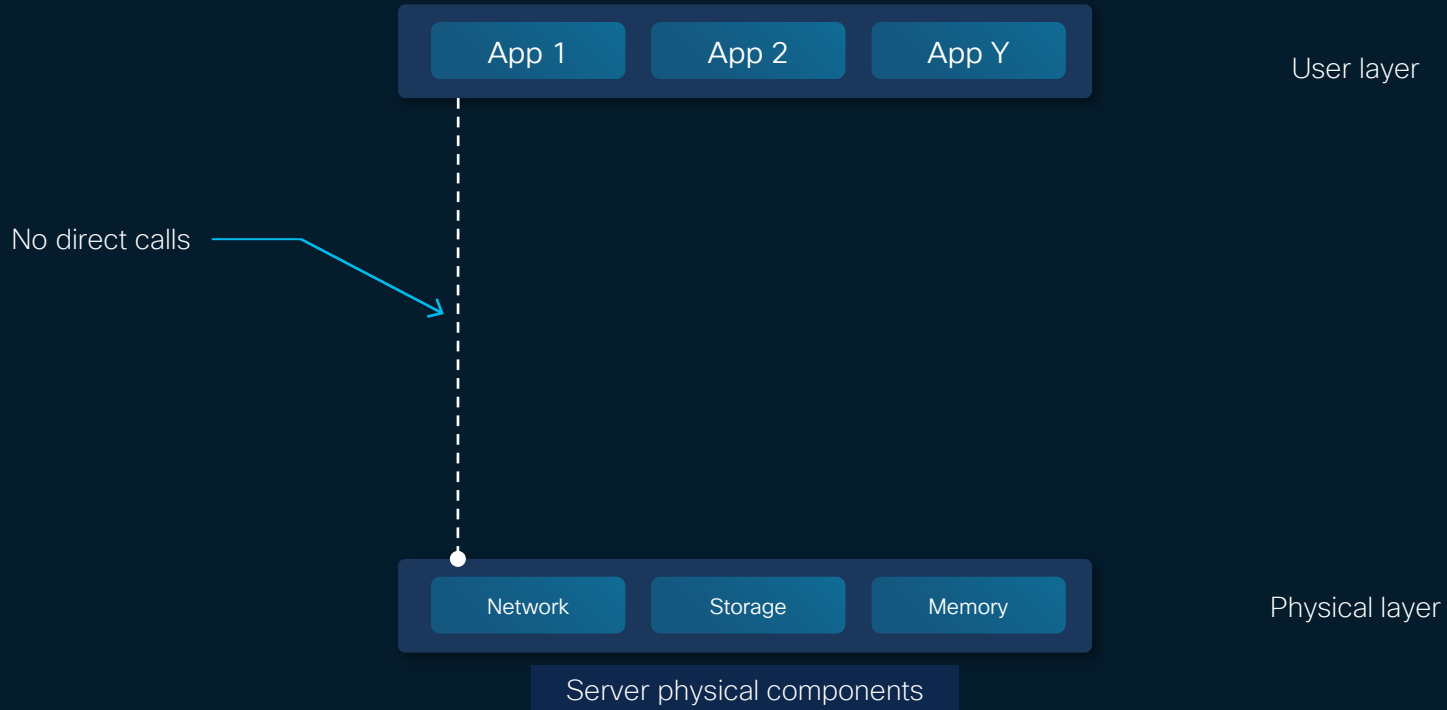


## Where are we:

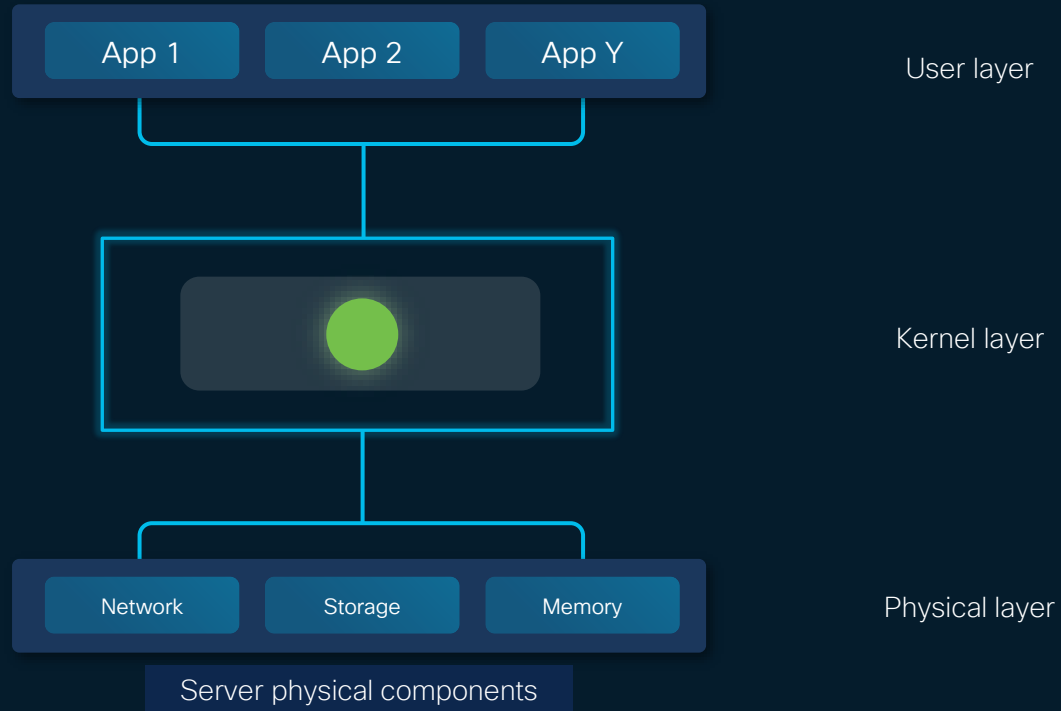
- Introduction
- Architecture
  - eBPF
  - AI & Graph Engine
  - Digital Twin
  - API
- Use Case: Autonomous Segmentation
- Use Case: Distributed Exploit Protection



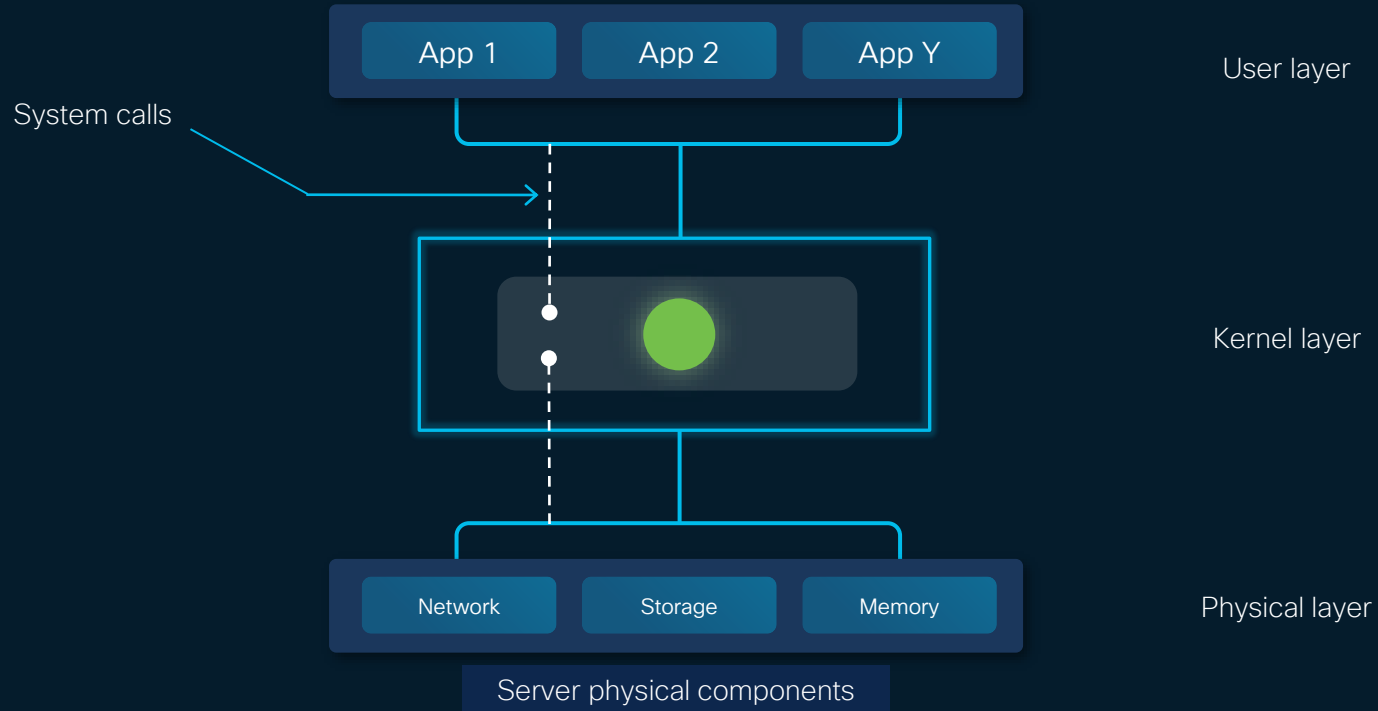
# How do operating systems work?



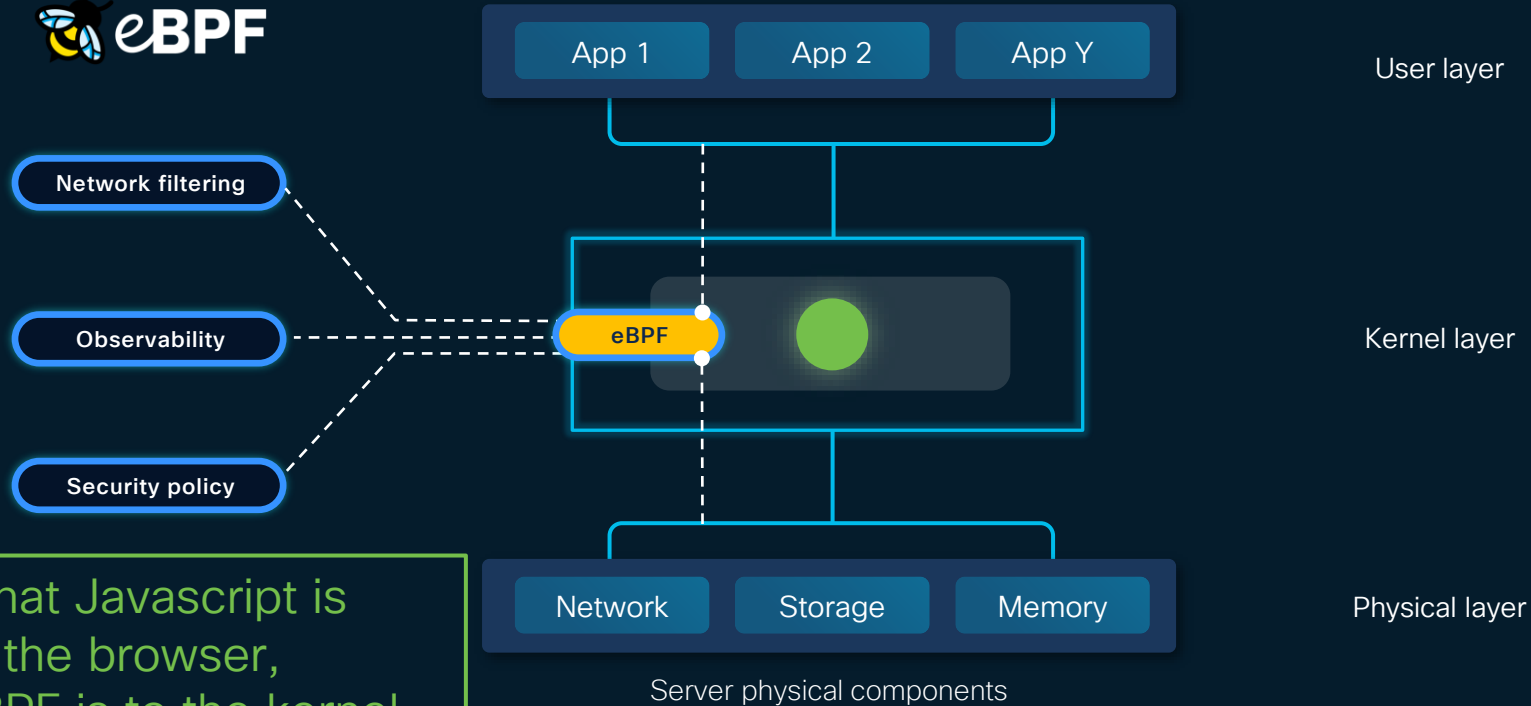
# How do operating systems work?



# How do operating systems work?



# eBPF – Foundation of Hypershield



What Javascript is to the browser,  
eBPF is to the kernel.

# eBPF – Foundation of Hypershield

- Kubernetes networking
- Load balancing
- Kubernetes services
- Identity-based security
- L7 policies

- Dependencies map (service and flows)
- Monitoring and alerting
- App monitoring

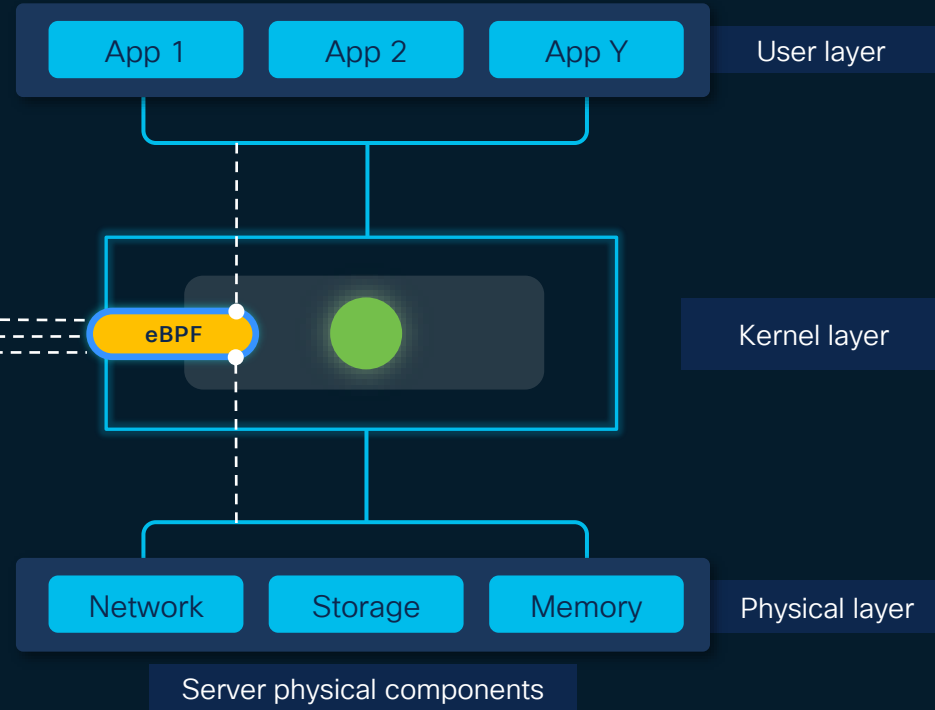
- Monitor process execution
- Runtime security policies
- Real time enforcement



Network filtering

Observability

Security policy



# eBPF Performance

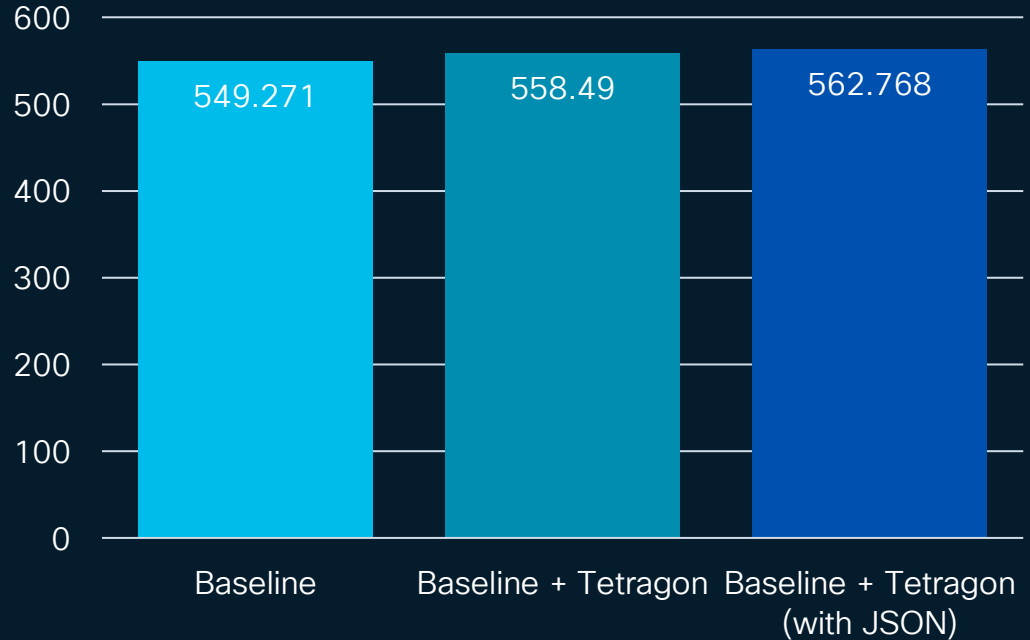
Build 6.1.13 Kernel  
(~1.5M Total events):  
Time Elapsed - Lower is  
Better

Remember, agent only:

1. maintains connection to SCC
2. maintains local graph
3. sends and receives data to SCC

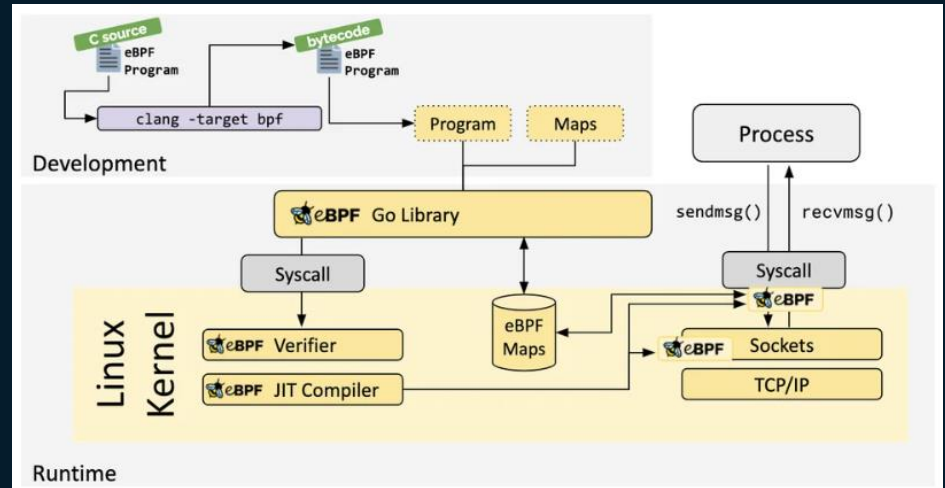
The actual data plane work is done by eBPF

Time (seconds)



# eBPF: Safety

- eBPF runs in a restricted execution environment
- Before eBPF script is compiled:
  - verifier ensures things such as memory safety
  - hardening process  
(program execution protection, mitigation against spectre, constant blinding, ...)
- eBPF can only access pre-approved kernel functions and datastructures





# eBPF Learning Resources

- Books: <https://isovalent.com/resource-library/books/>
- Learning Labs: <https://isovalent.com/resource-library/labs>


**Isovalent library**

All resources Features Blogs **Labs** Books Videos Case studies White papers Briefs Analyst Reports

Solution ▾ Topic ▾ Difficulty ▾ Version ▾ Project ▾

UPDATED EARN A BADGE

Transparent Encryption with IPsec and WireGuard




Labs Cilium • Oct 10, 2024

**Cilium Transparent Encryption with IPsec and WireGuard**

Encryption is required for many compliance frameworks. Kubernetes doesn't natively offer pod-to-pod encryption. To offer encryption capabilities,...

UPDATED EARN A BADGE

Getting Started with Tetragon




Labs Tetragon • Apr 08, 2024

**Getting Started with Tetragon**

Security Observability is a new paradigm that utilizes eBPF, a Linux kernel technology, to allow Security and DevOps teams, SREs, Cloud Engineers...

UPDATED EARN A BADGE

Cilium Host Firewall



Labs Cilium • Dec 13, 2023


**Cilium Host Firewall**

Ever since its inception, Cilium has supported Kubernetes Network Policies to enforce traffic control to and from pods at L3/L4. But Cilium...

O'REILLY

**Learning eBPF**

Programming the Linux Kernel for Enhanced Observability, Networking, and Security



Books • Oct 21, 2022

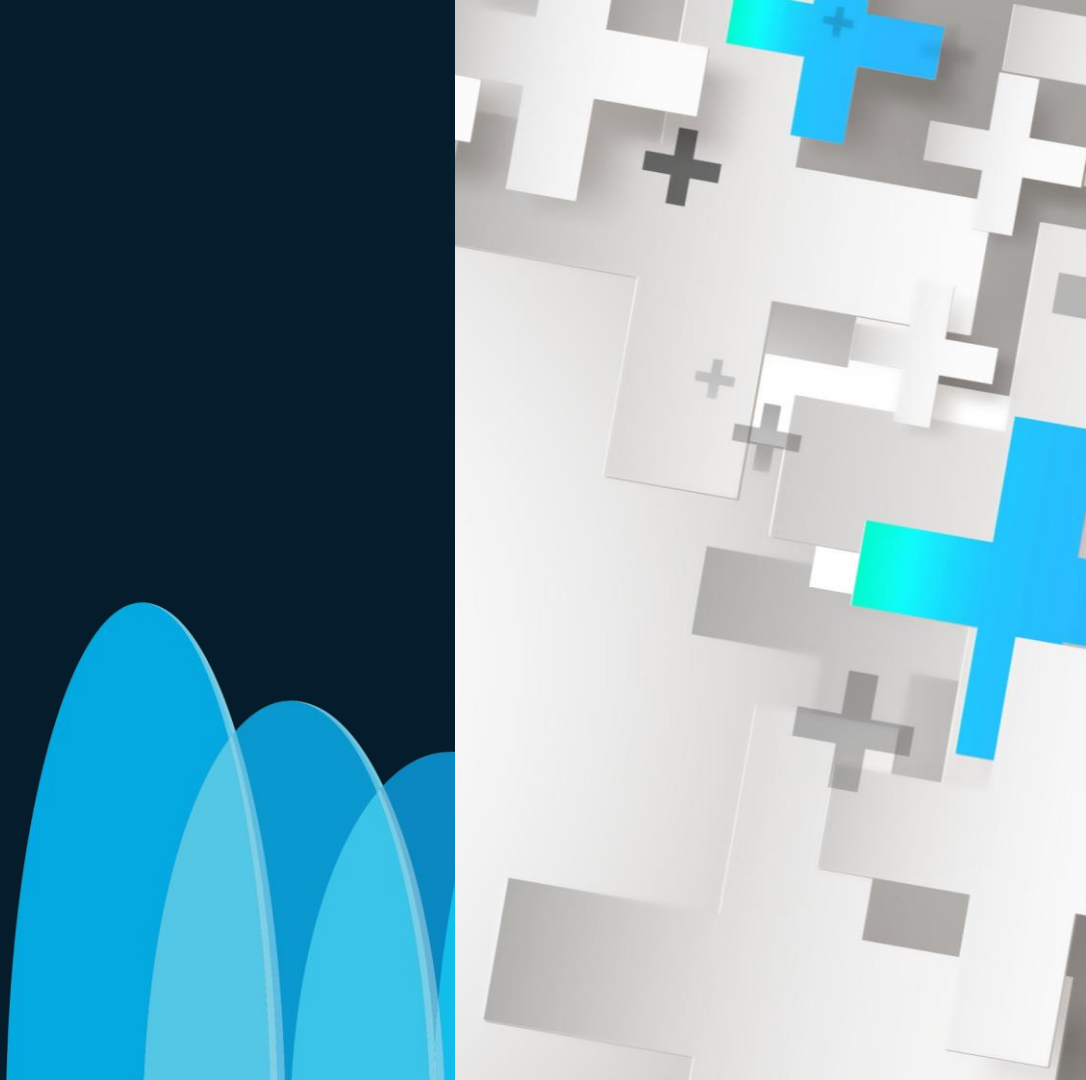
**Learning eBPF**

The O'Reilly book Learning eBPF by Liz Rice now available for download!

By Liz Rice

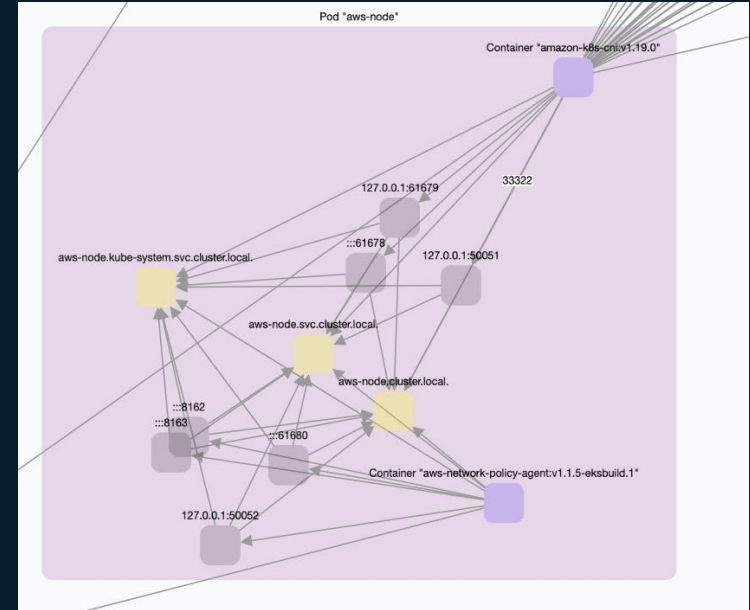
## Where are we:

- Introduction
- Architecture
  - eBPF
  - AI & Graph Engine
  - Digital Twin
  - API
- Use Case: Autonomous Segmentation
- Use Case: Distributed Exploit Protection



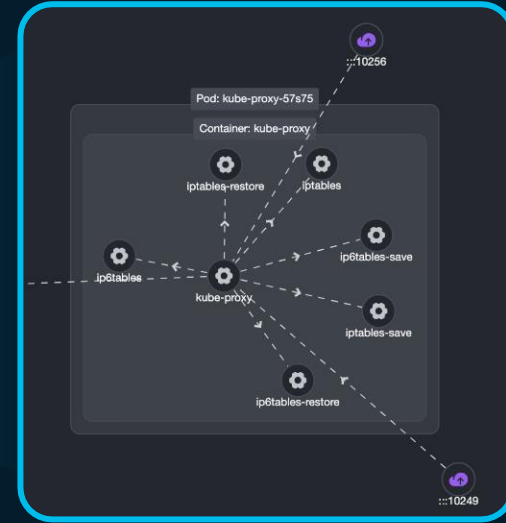
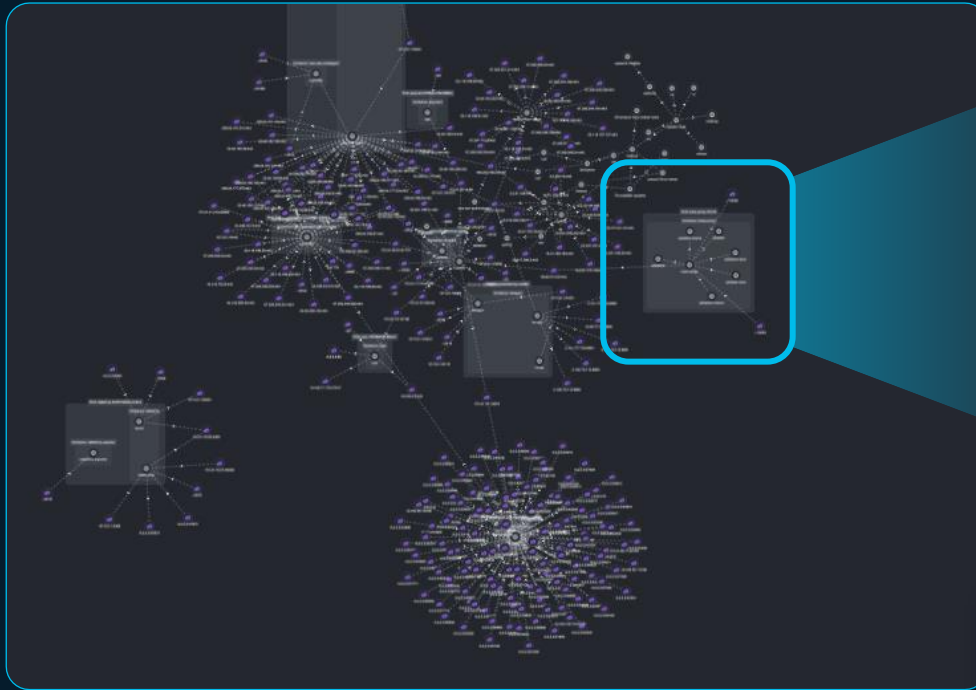
# Why Use Graphs in Cybersecurity?

- Data Reduction
- Automated Policy Creation
- Real-Time Attack Detection
- Pattern Matching with Talos
- Multi-Host Detection
- Efficient Data Sharing
- Hierarchical Graphs to enable joining



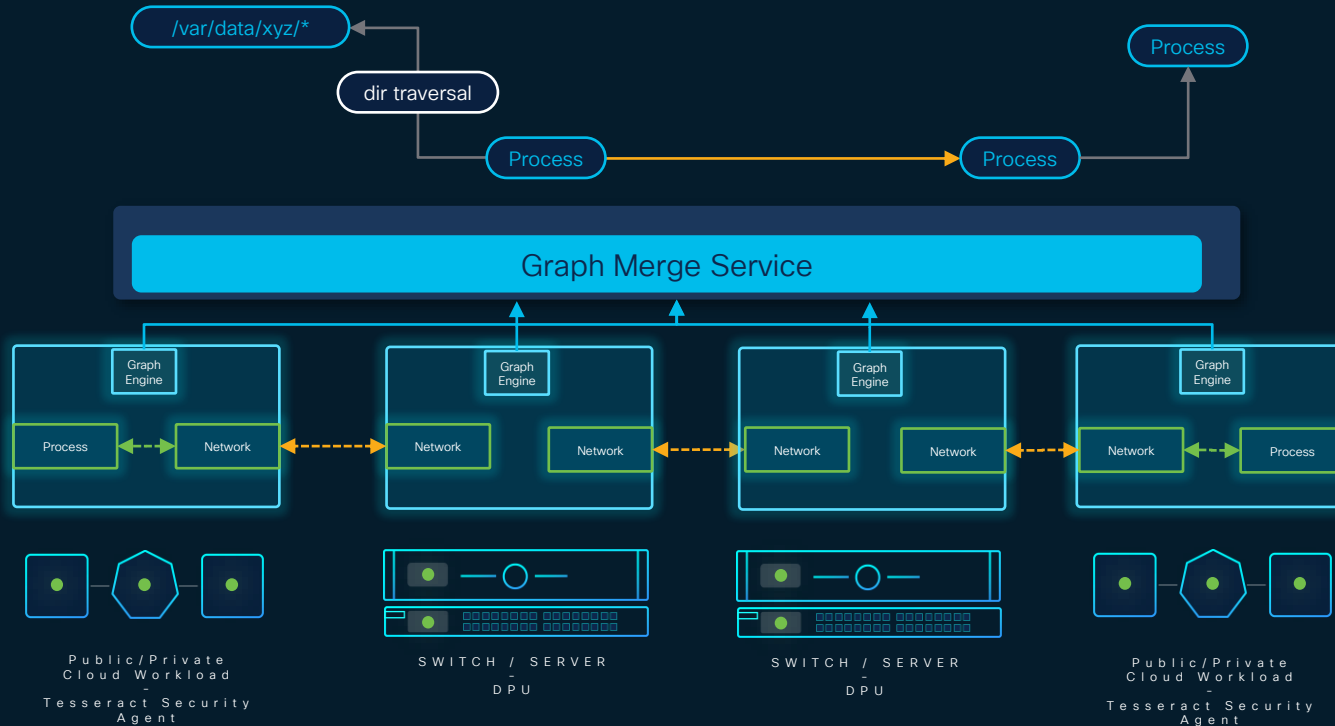
# Visibility Today

UI only shows a fraction of the actual graph contents

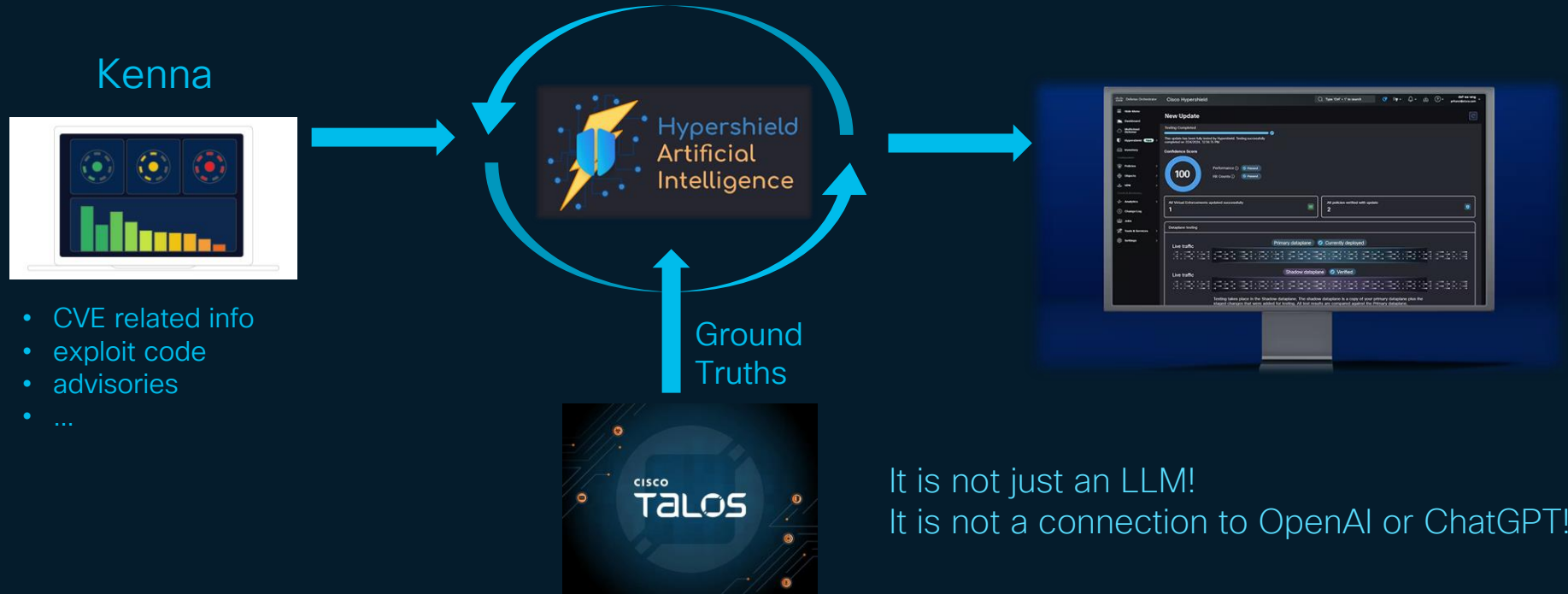


```
191b0f35b1f9f1d0c51e7f1f163c76886ab76d9ac0a63d0945adc70d", "@type": "@id"}}, {"cscs:kube_label-storage"}, {"app.kubernetes.io/created-by": "rook-ceph-operator"}, {"app.kubernetes.io/component": "rook-ceph-operator"}, {"app.kubernetes.io/instance": "ocs-storagecluster-cephfiles"}, {"odf-resource-profile": "balanced"}, {"ceph_daemon_id": "ocs-storagecluster-cephfilesystem"}, {"mds": "ocs-storagecluster-cephfilesystem-a"}, {"app.kubernetes.io/part-of": "ocs-storagecluster-cephfilesystem"}, {"cscs:kube_workload": "ro namespace": "openshift-storage", "cscs:kube_workload_kind": "Deployment"}, {"@id": "https://sb 502ad70da9574fa77a" "@type": "rook-ceph-operator", "rook-ceph-operator-name": "rook-ceph-operator" }
```

# Distributed Graph Engine



# AI in Hypershield



# Cisco Responsible ML/AI

Guidance &  
Oversight

Controls

Incident  
Management



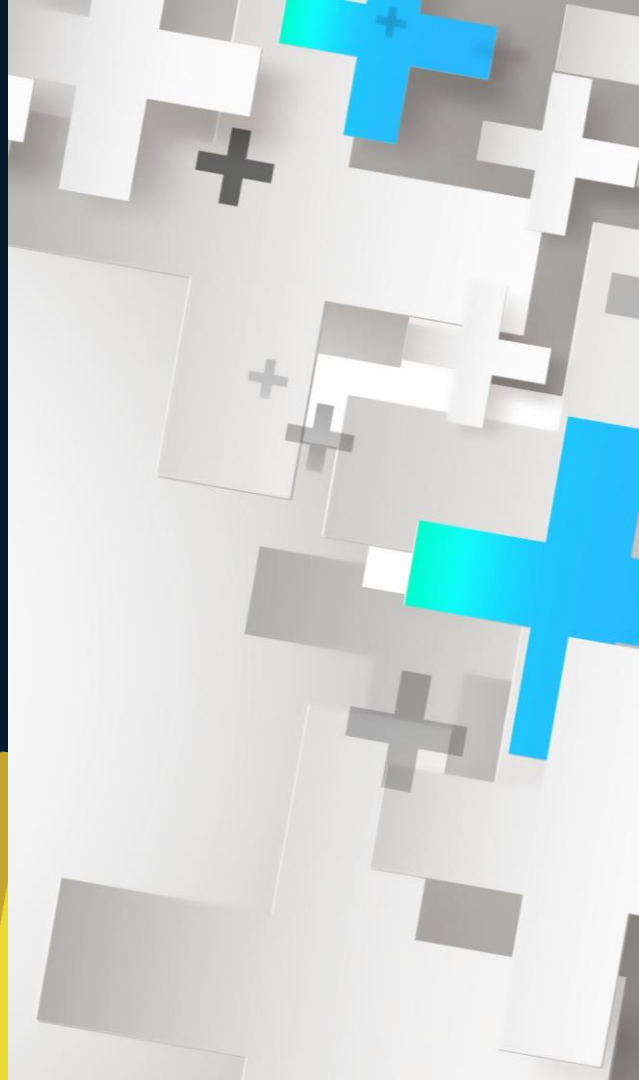
Industry  
Leadership

External  
Engagement

[https://www.cisco.com/c/dam/en\\_us/about/doing\\_business/trust-center/docs/cisco-responsible-artificial-intelligence-framework.pdf](https://www.cisco.com/c/dam/en_us/about/doing_business/trust-center/docs/cisco-responsible-artificial-intelligence-framework.pdf)

## Where are we:

- Introduction
- Architecture
  - eBPF
  - AI & Graph Engine
  - Digital Twin
  - API
- Use Case: Autonomous Segmentation
- Use Case: Distributed Exploit Protection





# Policy Updates

## Hypershield Policy Proposal

### Reason:

- CVE shield
- Behavioral Anomaly
- Segmentation update

### Policy Details:

- PARC policy

### Challenges:

- will this enforce the desired outcome?
- what will be the impact to rest of the environment
- will this introduce unexpected side effects?

~~Hypershield is bug free, we will be fine~~

~~Hypershield has AI, we will be fine~~

~~We will do all the testing and validation for every policy proposal~~

### Digital Twin

- Automatic Test in Production environment
- No impact during testing
- Detailed test report

# Changes can be validated on your live, production environment

## Network-based enforcer's dual data plane: Earning your trust

Primary Data Plane

VERSION 2.0

VERSION 2.1

Shadow Data Plane

Self qualifying software updates

Primary Data Plane

DEPLOYED POLICY

POLICY GROUP A

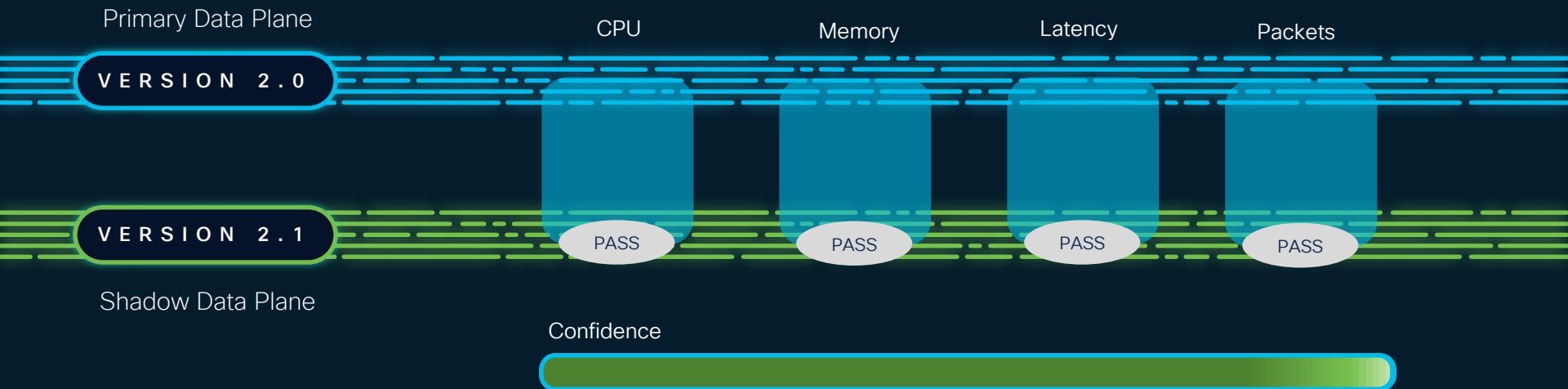
Shadow Data Plane

Policy verification, exploit protection test

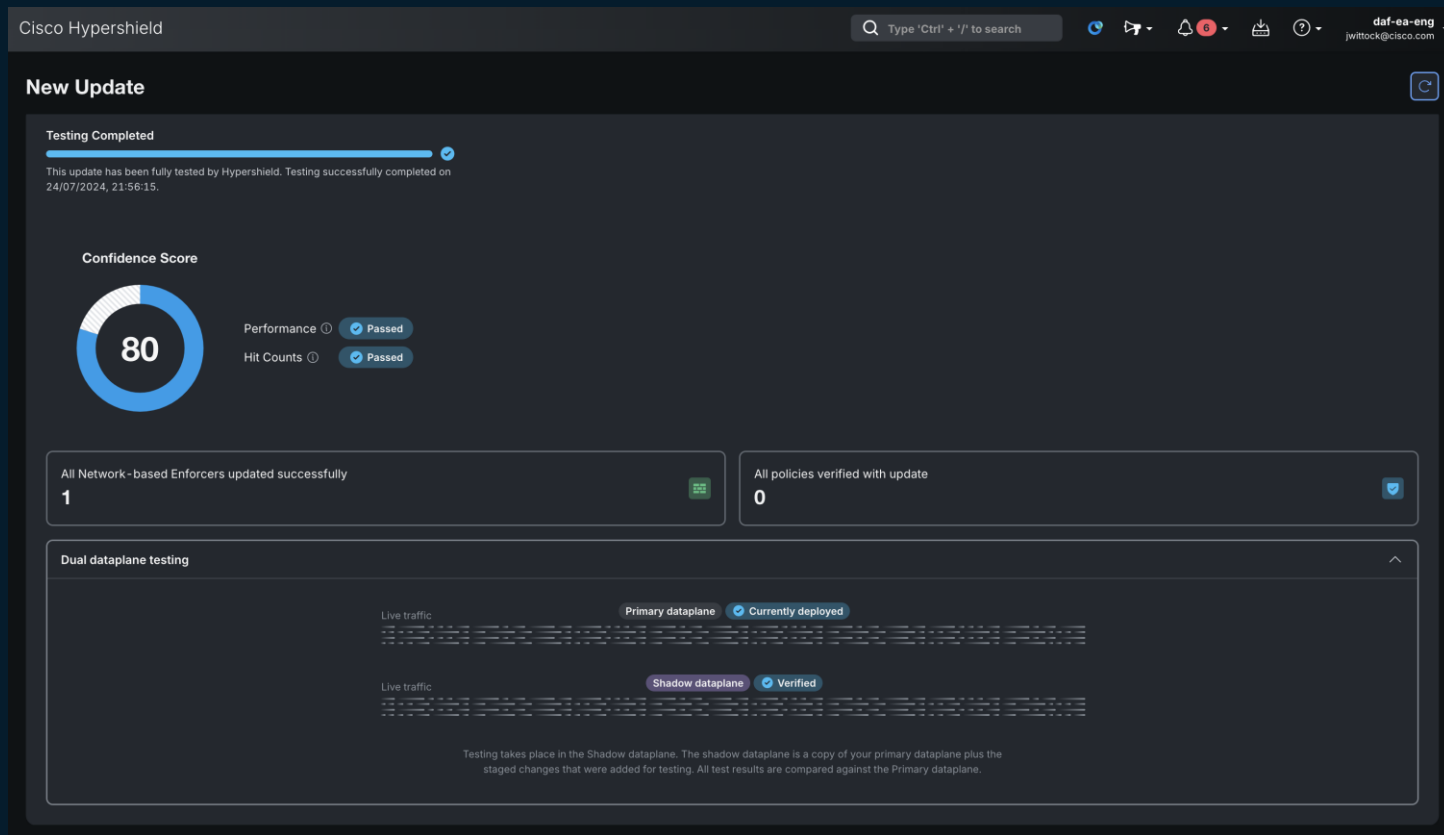
# Self Qualifying Updates

Earns your trust:

- ☐ Edit / Update
- ☐ Test Reports
- ☐ Schedule Deployment
- ☐ Deploy



# Self Qualifying Updates: Test Report



# Self Qualifying Updates: Test Report

Performance					Review
We test if the update passed or failed according to our metric. This ensures the update does not have a negative impact on the system.					
7 Expected differences					
CPU					
Metric	Difference	Threshold for success	Result	Reason	
CPU min	-0.59%	within 5%	Passed	Difference as expected	
CPU max	0%	within 5%	Passed	No difference	
CPU avg	0.05%	within 5%	Passed	Difference as expected	
Memory					
Metric	Difference	Threshold for success	Result	Reason	
Memory min	-0.01%	within 5%	Passed	Difference as expected	
Memory max	0.15%	within 5%	Passed	Difference as expected	
Memory avg	0.13%	within 5%	Passed	Difference as expected	
Memory growth	0%	within 5%	Passed	No difference	
Latency					
Metric	Difference	Threshold for success	Result	Reason	
Latency min	0%	within 5%	Passed	No difference	

# Self Qualifying Updates: Test Report

Flow

Metric	Difference	Threshold for success	Result	Reason
Flow Age max ⓘ	0%	within 5%	Passed	No difference
Flow Age avg ⓘ	0%	within 5%	Passed	No difference

Hit Counts

Hit counts are tracked to show any discrepancies between the number of times a policy was exercised between the primary dataplane and this update currently on the shadow dataplane.

Policy	Number of Hits	Primary dataplane	Number of Hits	Shadow dataplane	Difference	Review
Permit ICMP APP	0		n/a		n/a	Needs review
Test Policy	0		0		0	Needs review
Test Policy	0		0		0	Needs review
Test MS	0		0		0	Needs review
Test Policy	0		0		0	Needs review
Test	0		0		0	Needs review
sakhter-test-1	n/a		0		n/a	Needs review

Staged changes

1 policy added

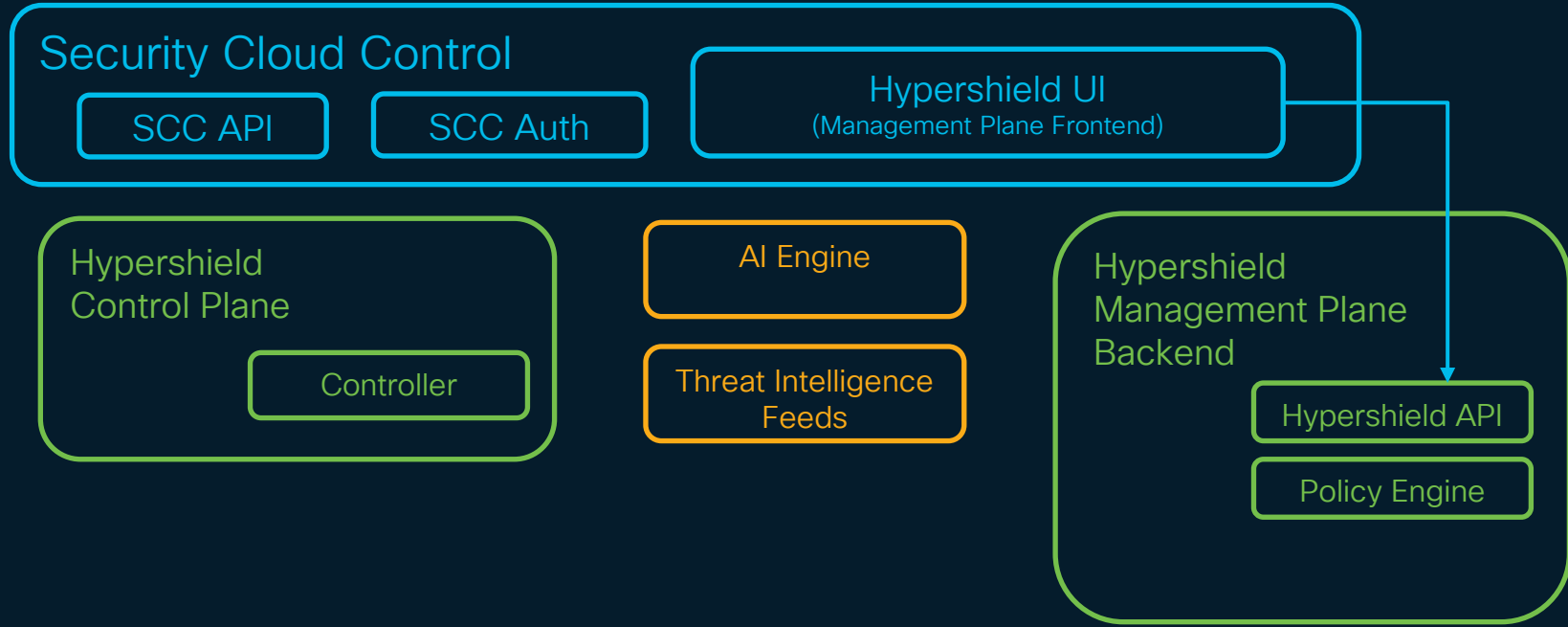
1 policies deleted

## Where are we:

- Introduction
- Architecture
  - eBPF
  - AI & Graph Engine
  - Digital Twin
  - **API**
- Use Case: Autonomous Segmentation
- Use Case: Distributed Exploit Protection

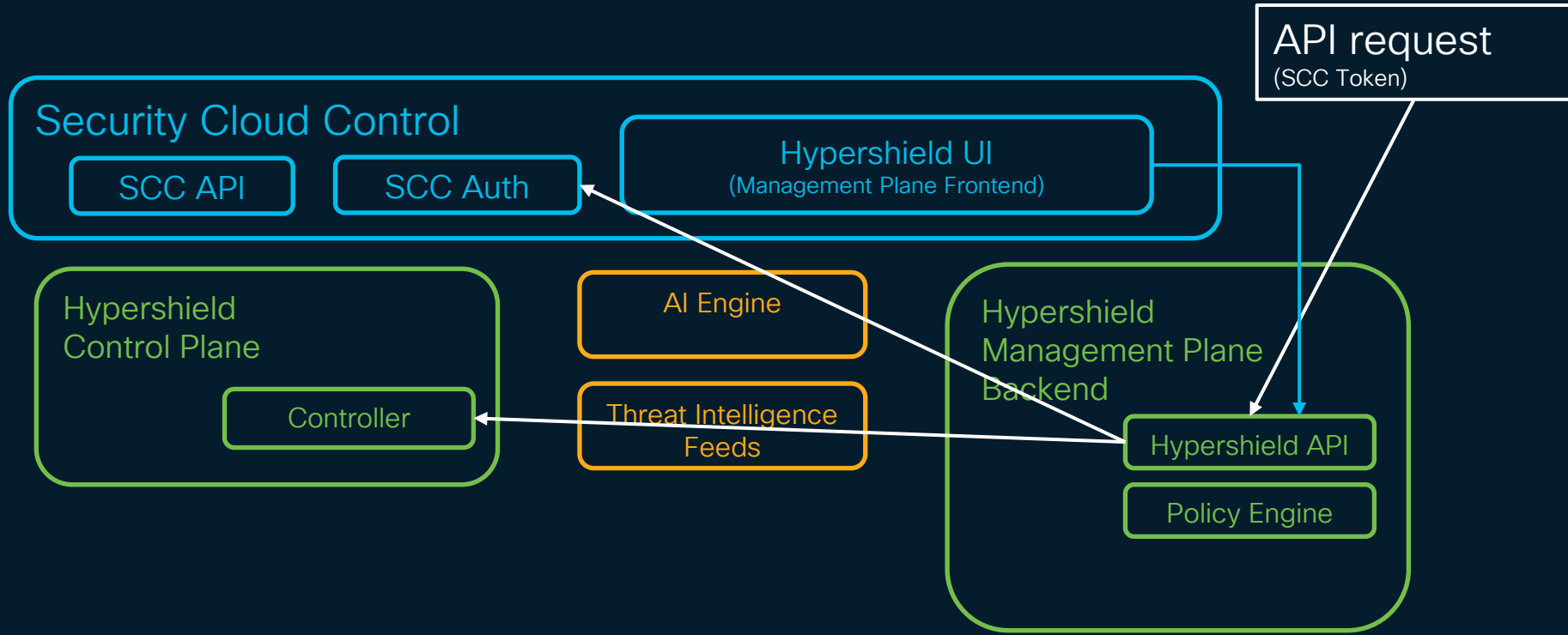


# Hypershield Architecture





# Hypershield API



# API Documentation (Swagger)

The screenshot displays the Swagger UI for the Cisco Hypershield API. At the top, the Swagger logo and version information (1.0.0, OAS 3.1) are visible. Below this, a 'Notes' section provides a warning about pagination. The 'Servers' section shows a dropdown menu set to '/api' and an 'Authorize' button. The main content area is organized into sections: 'AI' with a POST endpoint '/v1/ai'; 'FwAgent' with four endpoints (GET /v1/fw-agent, POST /v1/fw-agent, GET /v1/fw-agent/{id}, and DELETE /v1/fw-agent/{id}); and 'Object' with a GET endpoint '/v1/object'. Each endpoint is represented by a colored bar with its method, path, and a lock icon.

Swagger  
HYPERSHIELD, SMARTBEAR

## Cisco Hypershield API 1.0.0 OAS 3.1

Notes:

- Any objects that take a pagination parameter returns a paginated response of ( data: T[], total: number, options: PaginationOptions ) (not shown).

Servers

/api

Authorize

### AI

POST /v1/ai

### FwAgent

GET /v1/fw-agent

POST /v1/fw-agent

GET /v1/fw-agent/{id}

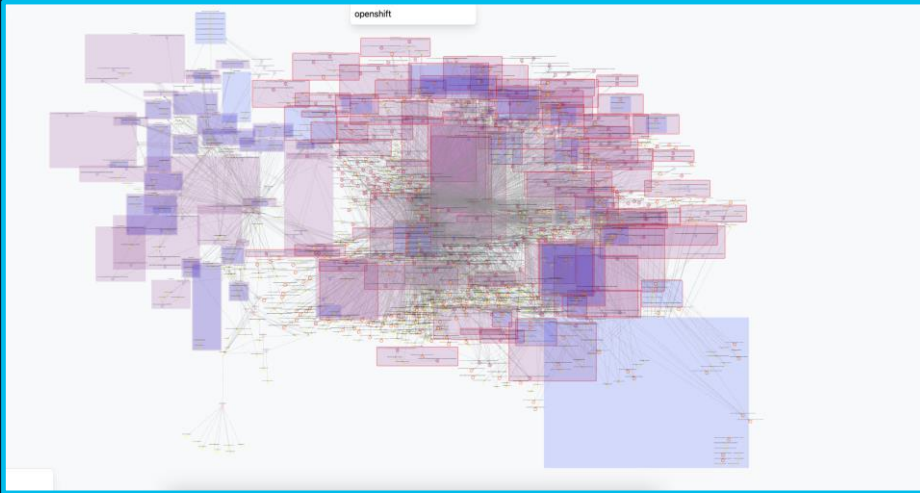
POST /v1/fw-agent/{id}

DELETE /v1/fw-agent/{id}

### Object

GET /v1/object

# Visibility through the API



```
import requests
import json

url = "https://mp-api.prod.hypershield.engineering/api/v1/"
operation_id = "workload-overview"
api_token = ""

with open('tenant.config', 'r') as f:
    config = json.load(f)
    api_token = config['token']

payload = {}
headers = {"Authorization": "Bearer " + api_token}

response = requests.request('GET', url+operation_id, headers=headers, data=json.dumps(payload))

print(json.dumps(response.json(), indent=2))
```

```
{
  "id": "123b2153-3ab9-4321-9a2f-a7a426963e97",
  "tenantId": "6a32347a-a9db-430f-8dc7-e210c1274252",
  "data": {
    "@id": "http://sbg.cisco.com/graph/merged/hosts/pods/conts/net/e66...",
    "@graph": [
      {
        "@id": "https://sbg.cisco.com/host/9a0de0b68b602a3ddc9f8835ca8...",
        "@type": "cisco:Host",
        "cisco:debug": "mid:0,hid:ip-10-0-1-22.us-east-2.compute.interna...",
        "cisco:host_name": "ip-10-0-1-22.us-east-2.compute.internal",
        "cisco:machine_id": "0"
      },
      {
        "@id": "https://sbg.cisco.com/flow/2c4ef73abdd2c04891de6627ebd...",
        "@type": "cisco:NetEndpoint",
        "cisco:prot": "IPPROTO_TCP",
        "cisco:debug": "net:IPPROTO_TCP-10.0.1.121:6676",
        "cisco:endpoint": "10.0.1.121:6676",
        "cisco:resolved_from": {
          "@list": [
            {
              "@id": "https://sbg.cisco.com/dns/027810d9dba7dc21b56170...",
              "@type": "@id"
            },
            {
              "@id": "https://sbg.cisco.com/dns/1b106cd399d086e197cbc8...",
              "@type": "@id"
            },
            {
              "@id": "https://sbg.cisco.com/dns/6d29d3cf425ff4372e3132...",
              "@type": "@id"
            }
          ]
        }
      }
    ]
  }
}
```

# Shields using the API

```
import requests
import json

url = "https://mp-api.prod.hypershield.engineering/api/v1/"
operation_id = "policy/tetragon"
api_token = ""

with open('tenant.config', 'r') as f:
    config = json.load(f)
    api_token = config['token']

payload = {}
headers = {"Authorization": "Bearer " + api_token}

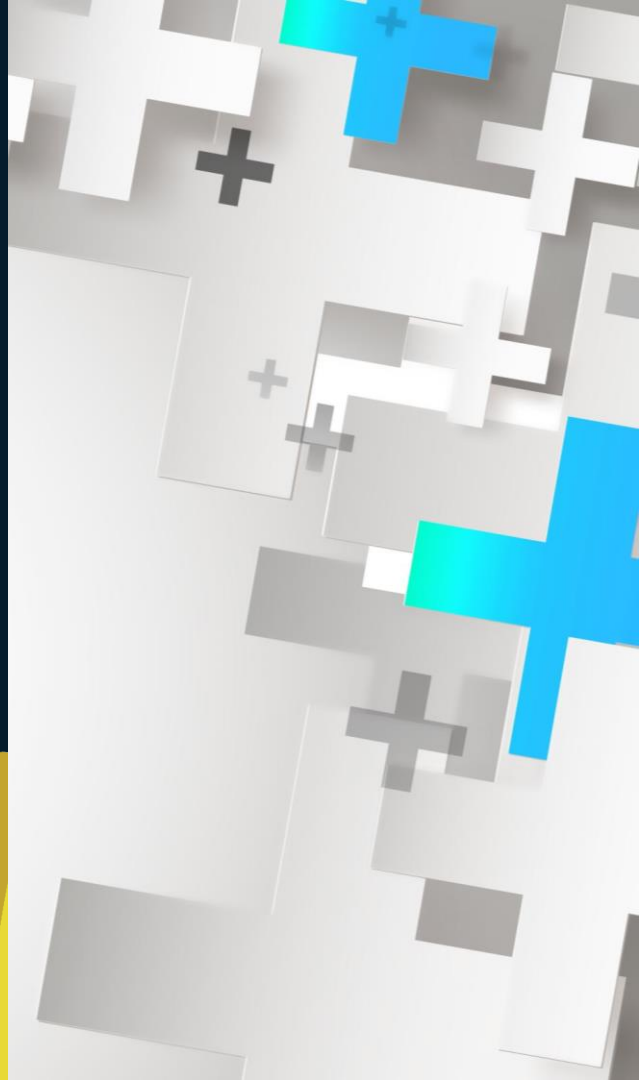
response = requests.request('GET', url+operation_id, headers=headers, data=json.dumps(payload))

print(json.dumps(response.json(), indent=2))
```

```
JWITTOCK-M-M4X7:example_scripts jwittock$ python3 get_shields.py
{
  "data": [
    {
      "id": "3a0563a0-1d4b-43ec-a89b-151d2a26966e",
      "tenantId": "d206f38f-6c4f-4e1c-b3b4-e42e5d33c671",
      "policyGroupId": null,
      "name": "CVE-HS-TEST",
      "description": "Test vulnerable package for testing.",
      "createdBy": "system",
      "updatedBy": "system",
      "policyType": "TETRAGON",
      "compensatingControlId": "12bbe803-935c-4a11-a044-38cc5edf83de",
      "autodeploy": false,
      "cedar": {
        "effect": "forbid",
        "principal": {
          "op": "==",
          "entity": {
            "type": "package",
            "id": "hs-test"
          }
        },
        "action": "security_bprm_check",
        "resource": {
          "op": "==",
          "entity": {
            "type": "linux_binprm"
          }
        }
      },
      "conditions": [
        {
          "type": "when",
          "left": "principal.version",
          "op": "<=",
          "right": "1.0.0"
        }
      ]
    }
  ]
}
```

## Where are we:

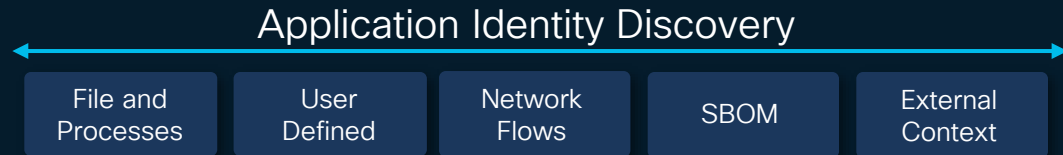
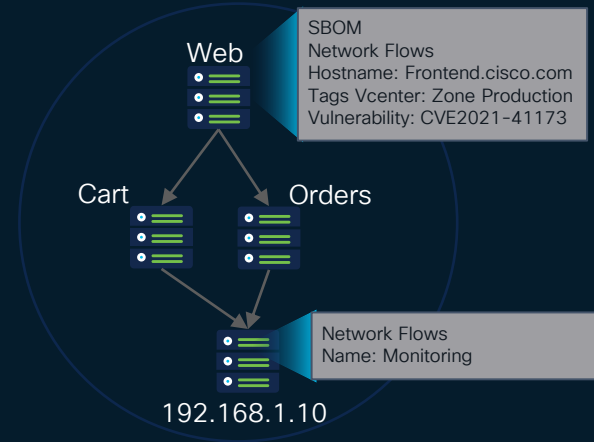
- Introduction
- Architecture
  - eBPF
  - AI & Graph Engine
  - Digital Twin
  - API
- Use Case: Autonomous Segmentation
- Use Case: Distributed Exploit Protection



# Application Identity Discovery

Discovering the Application Runtime Identities!

- eBPF based, realtime, factual
- Auto-Discovery of Application Runtime Inventory
  - Network Endpoints and Workloads
  - Network Flows and Processes
  - Filesystem and others
- Enrichment
  - SBOM
  - Vulnerabilities
  - User defined
  - External Systems



# Segmentation that is effective and keeps up with changing applications

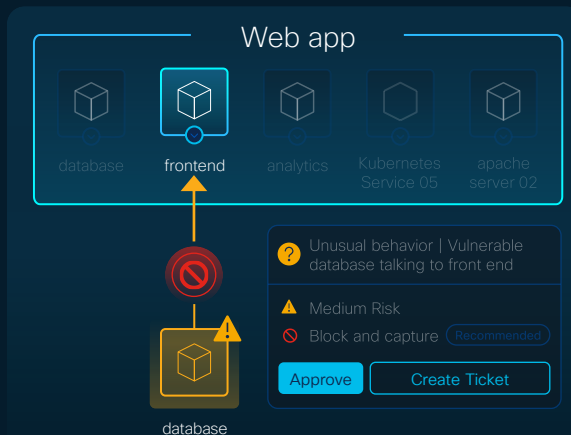


Complete understanding of changing app behavior from network to workload to pre-prod

## Recommendations

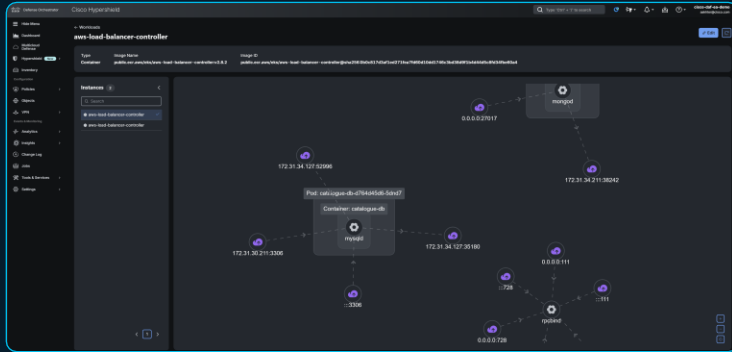
- ✓ Permit web app frontend can access database ✓
- ✓ Permit web app frontend can access analytics ✓
- ✓ Permit web app analytics can access database ✓
- ✓ Default observe and permit web app policy group... ✓

Flexible segmentation rules that help avoid app fragility



Policies updated to stricter rules in response to suspicious events

# Autonomous Segmentation



App-comms			
Created by	Created at	Updated by	Updated at
...	2024-10-26T01:40:04.909Z	prfranci@cisico.com	2024-10-26T01:40:04.909Z
Principal			
App Service			
10.0.25.30/32			
Action			
tcp udp ICMP			
Resource			
DB Service			
10.0.30.30/32			

## Simplified policy management

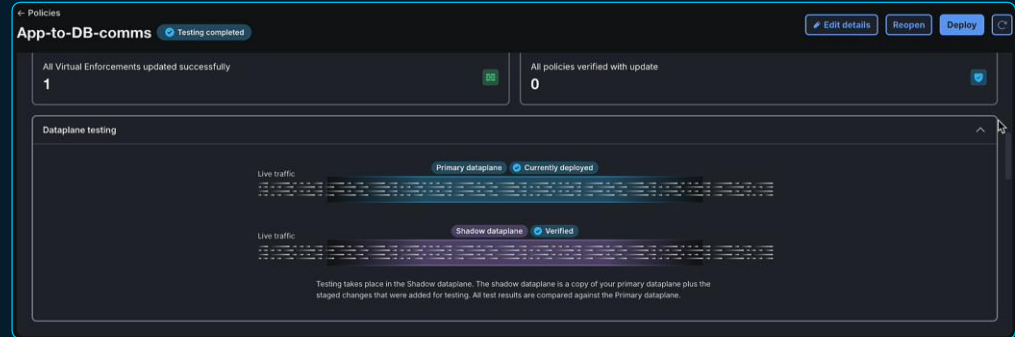
Singular policy across multiple enforcement points on public and private clouds

## Application Fingerprinting

Autonomous discovery, tagging, and grouping of workloads

## Deployment confidence

Know how policies and software updates would perform in real time





# Autonomous Segmentation

## Baselining & Scanning Modes

New workloads automatically go into baselining mode.

In scanning mode, Hypershield scans for deviations & Anomalies.

Hosts	Pods	Containers	User-defined
Q Search			
Autonomous Segmentation	Name	Kubernetes Namespace	
Baselining	aws-load-balancer-controller-5ddf449c7c-d8xt2	kube-system	
Baselining	cart-78dbff49b-rdgg2	robot-shop	
Updating baseline	carts-666b98fdc4-pph8k	sock-shop	
Baselining	catalogue-7b4b777975-77p2f	robot-shop	
Scanning	catalogue-db-d764d45d6-5dnd7	sock-shop	
Baselining	dispatch-7d4ff989d7-96kmg	robot-shop	

Anomalies

Q Search

Anomalous instance

catalogue-db

Anomaly

New process, gosu

New process, mysql

New process, mysqld

New process, awk

New process, sleep

New process, mysqld

New process, id

New process, mysql\_tzinfo\_to\_sql

New process, chown

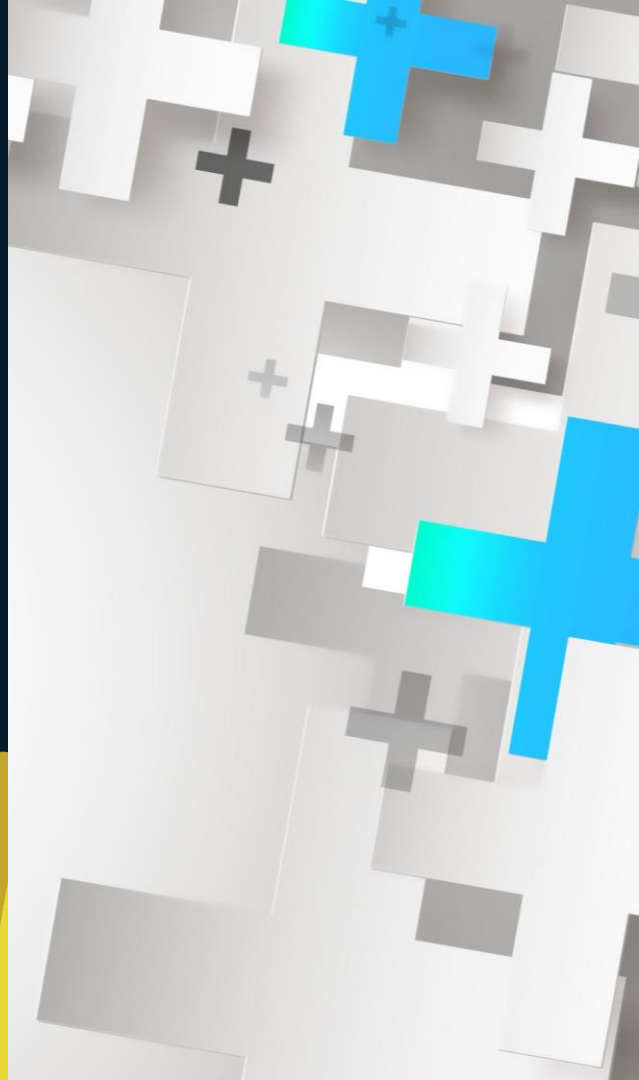
New process, mkdir

## Anomaly Detection

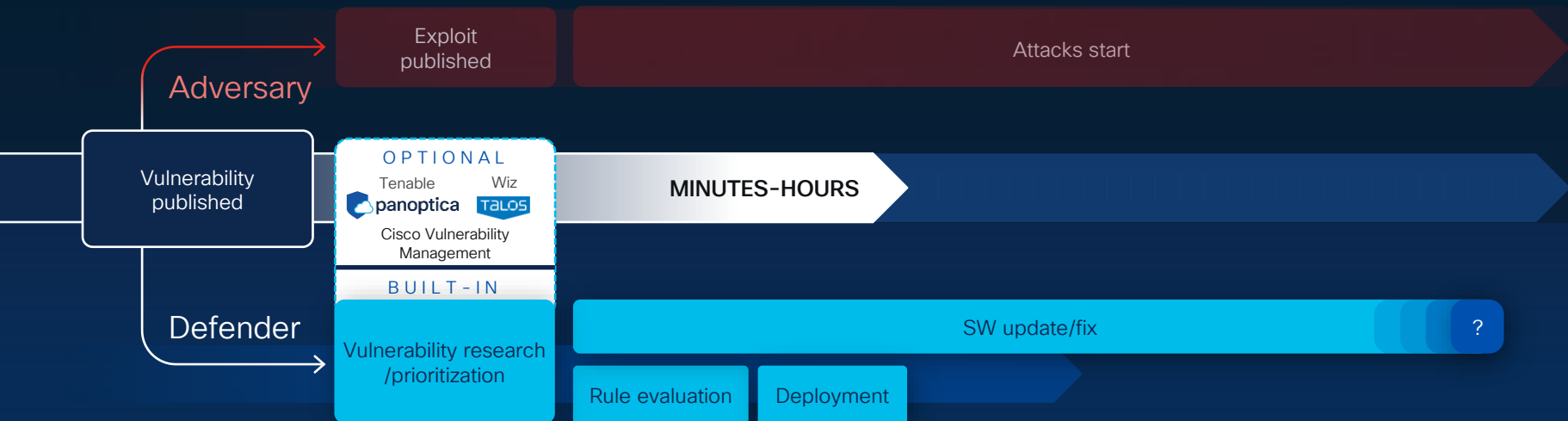
Detect deviations from baseline and act upon them.

## Where are we:

- Introduction
- Architecture
  - eBPF
  - AI & Graph Engine
  - Digital Twin
  - API
- Use Case: Autonomous Segmentation
- Use Case: Distributed Exploit Protection



# End-to-end vulnerability management, accelerated



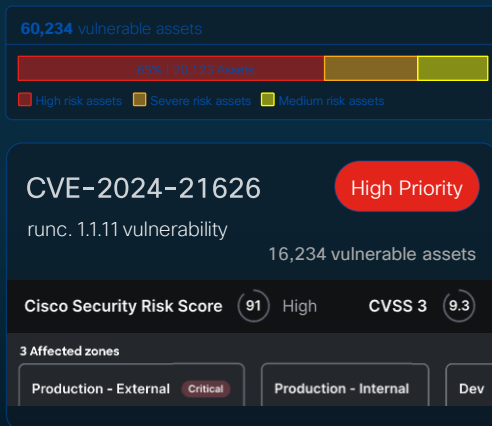
Weeks of expert analysis  
compressed to **minutes**

**Automated** inspection,  
pre-built integrations,  
AI recommendations,  
tests, and deployment

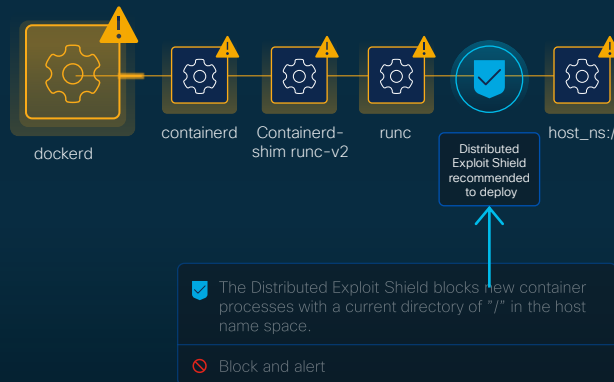
Multiple compensating  
controls **evaluated**;  
environment best  
fit **recommended**

Give the app team **time**  
**to patch** while working at  
speed of the adversary

# Close the exploit gap against growing vulnerabilities with automated workflows



Complete view of the vulnerabilities, prioritized by severity and critical business flows



Surgical mitigating control in the path of the process that keeps application running



The Distributed Exploit Shield was already tested in your environment

Tested against live production traffic to earn trust and increase confidence

# Distributed Exploit Protection

## Public Global Data Sources

- Kenna
- Public CVE info
- Talos

Hypershield AI

Shields for  
each CVE

Distributed Exploit  
Protection

## Private Local Data Sources

### In-Depth Visibility

- what
- where
- which version
- which libraries

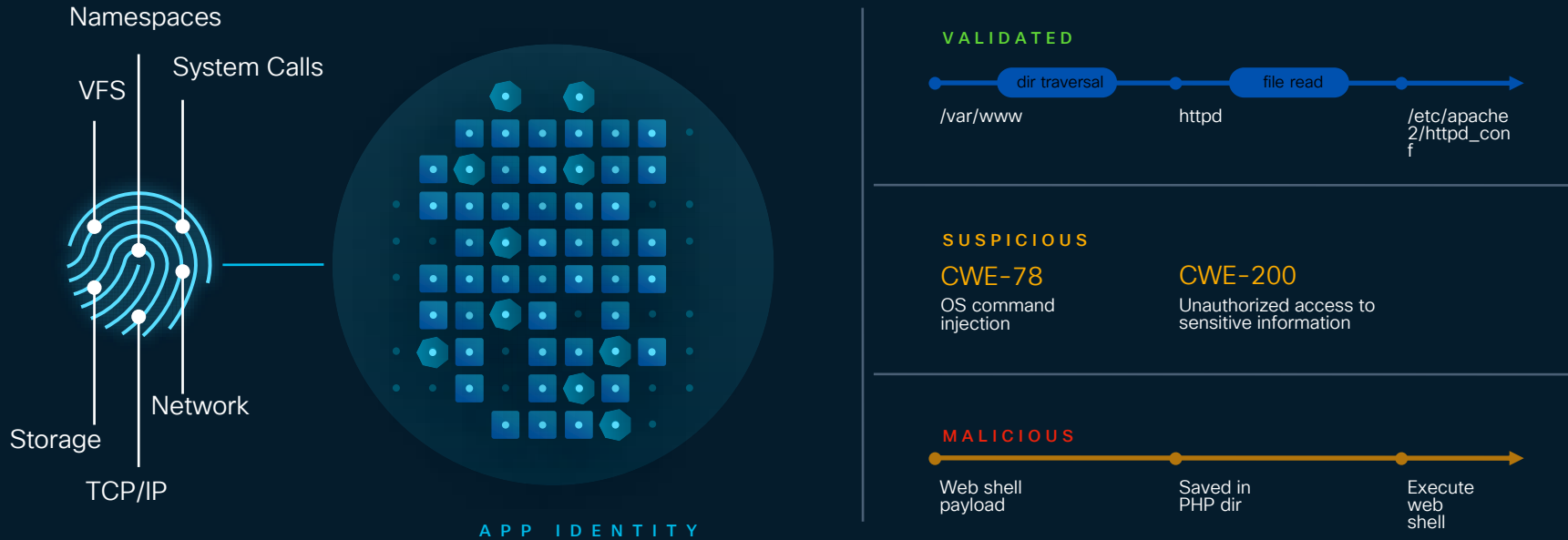
Local Graph

Global Graph

Detect CVE's

Local Graph

# Unknown vulnerability protection



Application-specific behavior analysis

Common weakness enumeration and analysis

# Distributed Exploit Protection Progress – Nov 2024

## Vulnerability detection

Identify known software vulnerabilities (CVEs)

## Mitigation shields

Protect applications by automatically implementing precise mitigating security controls

Tesseract Security Agents				
<div>Q Search</div>				
Agent status	Name	Asset security status	Number of vulnerabilities	
Connected	ip-172-31-17-204.ec2.internal	Exploitable	1	...
Connected	ip-172-31-17-210.ec2.internal	No vulnerabilities	0	...
Connected	ip-172-31-32-70.ec2.internal	No vulnerabilities	0	...

Tesseract Security Agents			
ip-172-31-17-204.ec2.internal Exploitable			
Node			
Data Vulnerabilities			
<div>Q Search</div>			
Deploy			
Status	Vulnerability	CVSS v3	Mitigation
Exploitable	CVE-HS-TEST	9.5 Critical	Ready to deploy

Vulnerability	
CVE-HS-TEST Mitigated	
Description	
Test vulnerable package for testing.	CVSS v3 9.5 Critical
Remediation	
Distributed Exploit Shield	
Created on	Updated on
10/17/2024, 5:51:05 PM	10/17/2024, 5:51:05 PM
Effect	Forbid and warn
Principal	package-to-test
Action	security.alert.check
Resource	linux_binfmt_undefined
Condition	principal.version <= 10.0
<div>Q Search</div>	
Security status	Name
Shielded	CVE-HS-TEST
Agent status	
Connected	

# Thank you!







# Join our Security Research Community

Participating in design research gives you a place to share your thoughts and experiences to influence the future of Cisco Security Products.



# Webex App

## Questions?

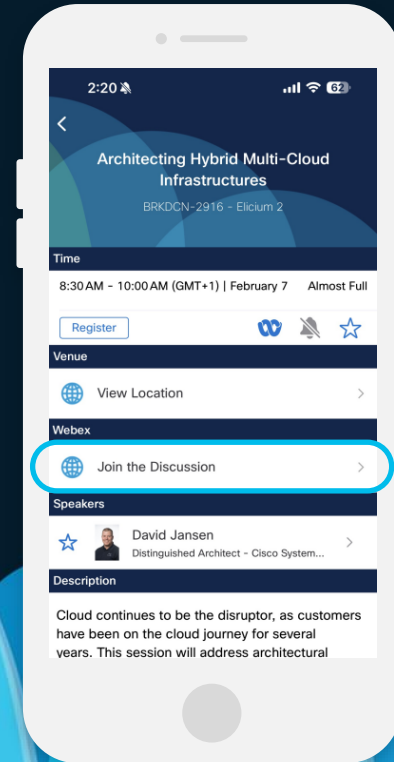
Use the Webex app to chat with the speaker after the session

## How

- 1 Find this session in the Cisco Events mobile app
- 2 Click “Join the Discussion”
- 3 Install the Webex app or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until, at least, February 28, 2025.

**cisco** *Live!*



# Fill Out Your Session Surveys



Participants who fill out a minimum of 4 session surveys and the overall event survey will get a unique Cisco Live t-shirt.

(from 11:30 on Thursday, while supplies last)



All surveys can be taken in the Cisco Events mobile app or by logging in to the Session Catalog and clicking the 'Participant Dashboard'



Content Catalog

# Continue your education



- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at [ciscolive.com/on-demand](https://ciscolive.com/on-demand). Sessions from this event will be available from March 3.



Thank you



CISCO *Live!*

GO BEYOND

The background of the slide features a series of overlapping, teardrop-shaped elements in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are arranged in a way that creates a sense of depth and movement, resembling a stylized horizon or a series of waves. The overall composition is clean and modern, with a focus on the central text.