



**Hewlett Packard
Enterprise**

Data Center

Overview – The Road Ahead

Infrastructure | Automation | Workloads



Rick Kauffman

HPE Aruba Networking, Technical Enablement
Global Technical Marketing Engineer

Before we begin...



- Listen by computer audio or dial-in



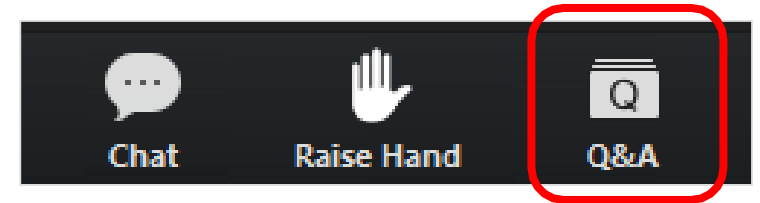
- All lines are muted during the webinar



- Ask *questions* by selecting “Q&A” and to report any webinar difficulties



- Webinar is being recorded & will be emailed to all attendees



Partner Technical Webinar Series

New HPE Aruba Next-Gen Data Center Solutions

Session 1: Data Center: HPE GreenLake

Monday, March 18th at 9 AM PT / 12 PM ET

Session 2: Data Center: FY24 DCN Overview and Road Ahead

Monday, April 15th at 9 AM PT / 12 PM ET

Session 3: Data Center: Private Cloud Business Addition

Monday, June 5th at 9 AM PT / 12 PM ET

([Click here](#)) to view session recordings for the webinar series



Agenda

- **Changing Landscape**
- **Data Center Architecture**
- **The whole story**
- **Distributed Services Switch**
- **Aruba Fabric Composer**
- **AMD Policy Services Manager**
- **HPE GreenLake with Colo**

A changing landscape

— Co-location providers are designing for 100kw per rack.

CPU, GPU, TPU, DPU

Data – 175z

- Storage
- BURAs
- Data Lake / Lake House?

To cloud or not to cloud/Hybrid

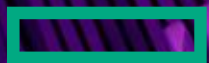
Security

Artificial Intelligence

All of this means the network is now more important than ever!

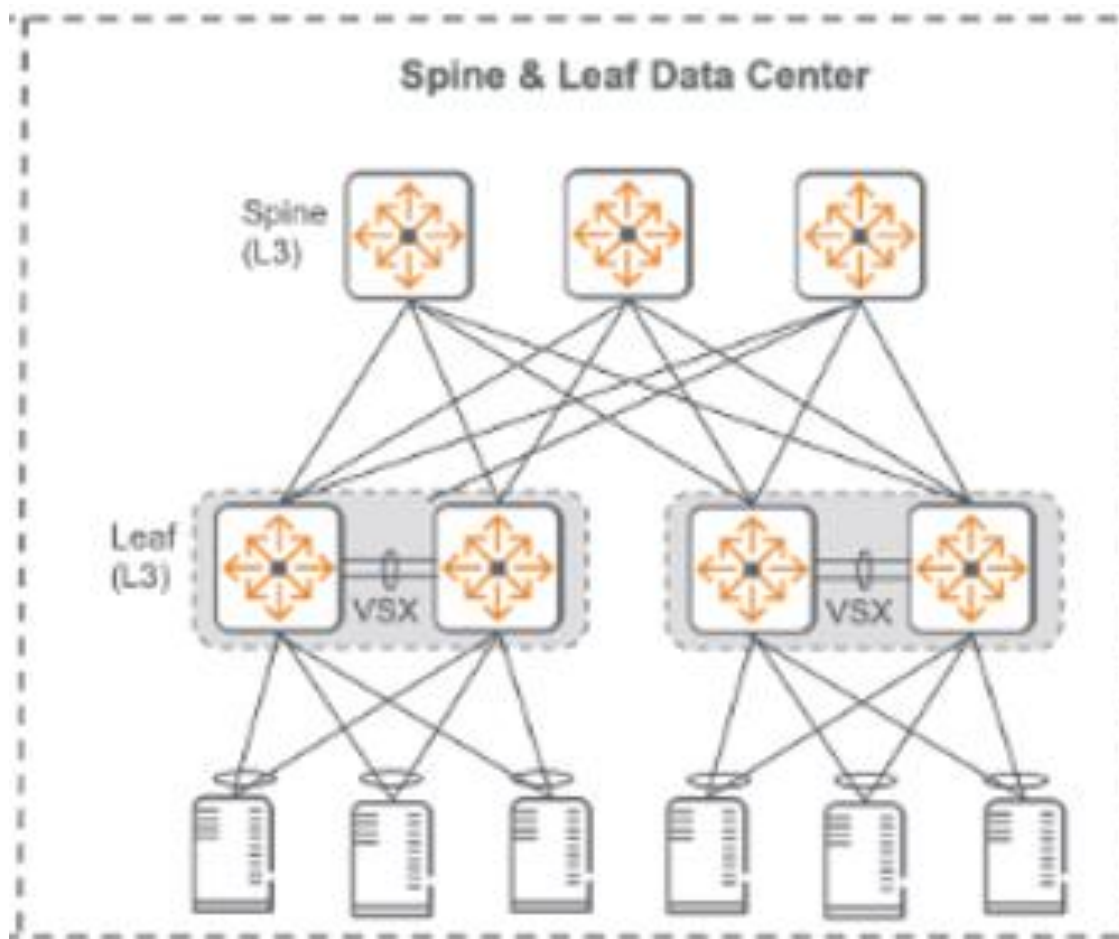


Data Center Network Architecture



Transform The Network - Underlay Network

The spine/leaf rules the day!

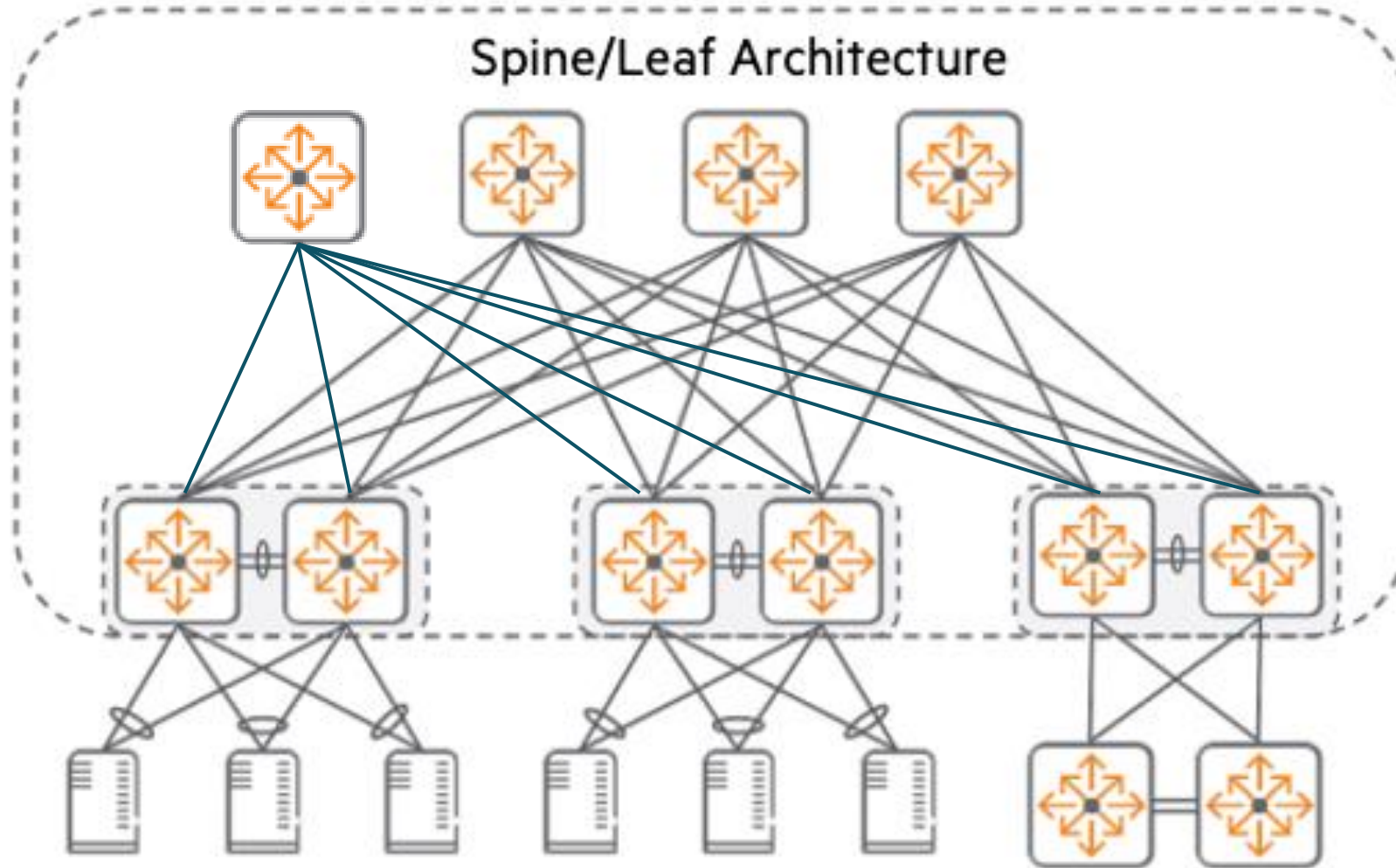


Not the end of the world if I lose one or two along the way

For Training Purposes Only

The Spine Leaf

Scalable Network Architecture

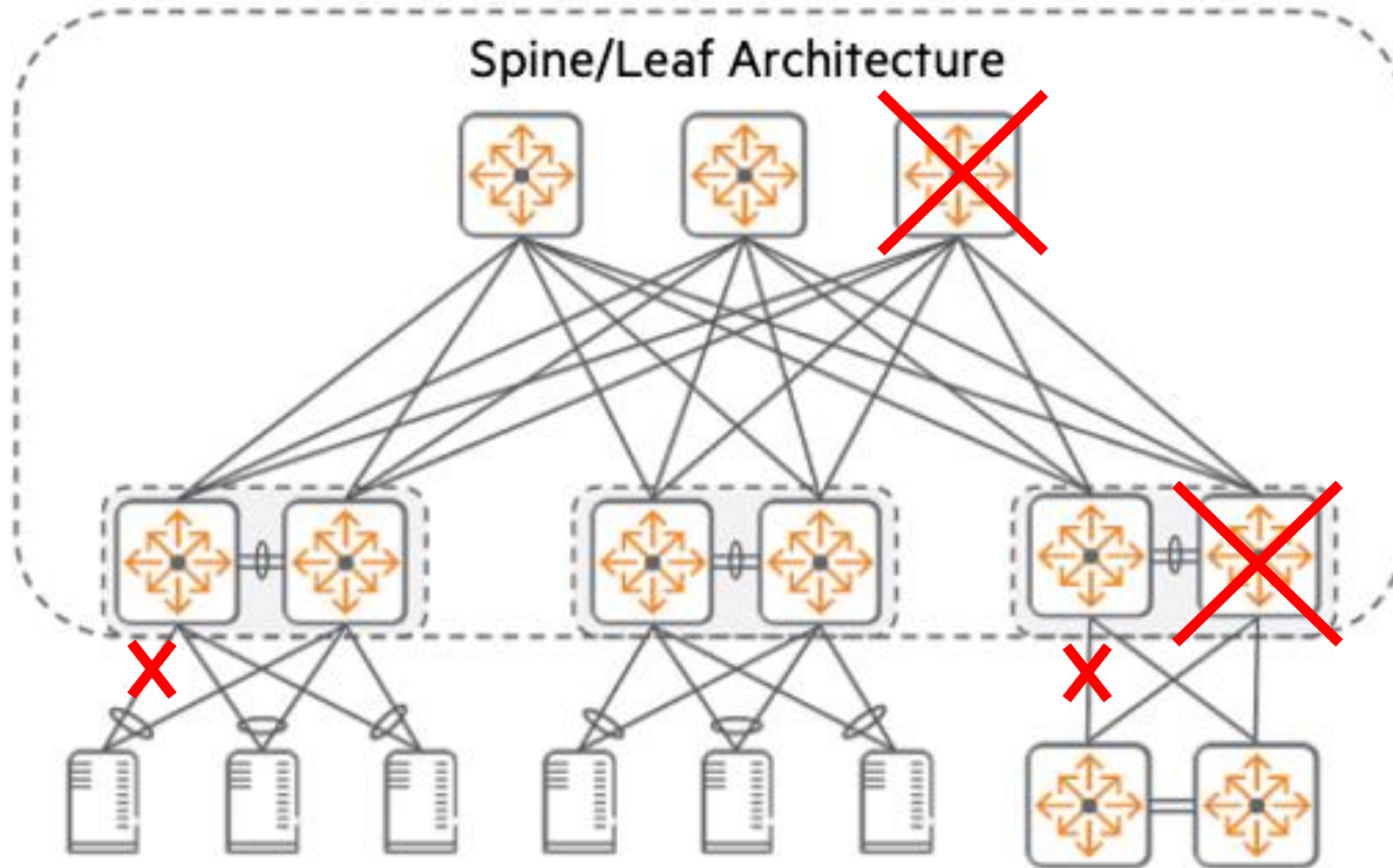


Lots of links, all routed with under lay and over lay.

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The Spine Leaf

Scalable Network Architecture

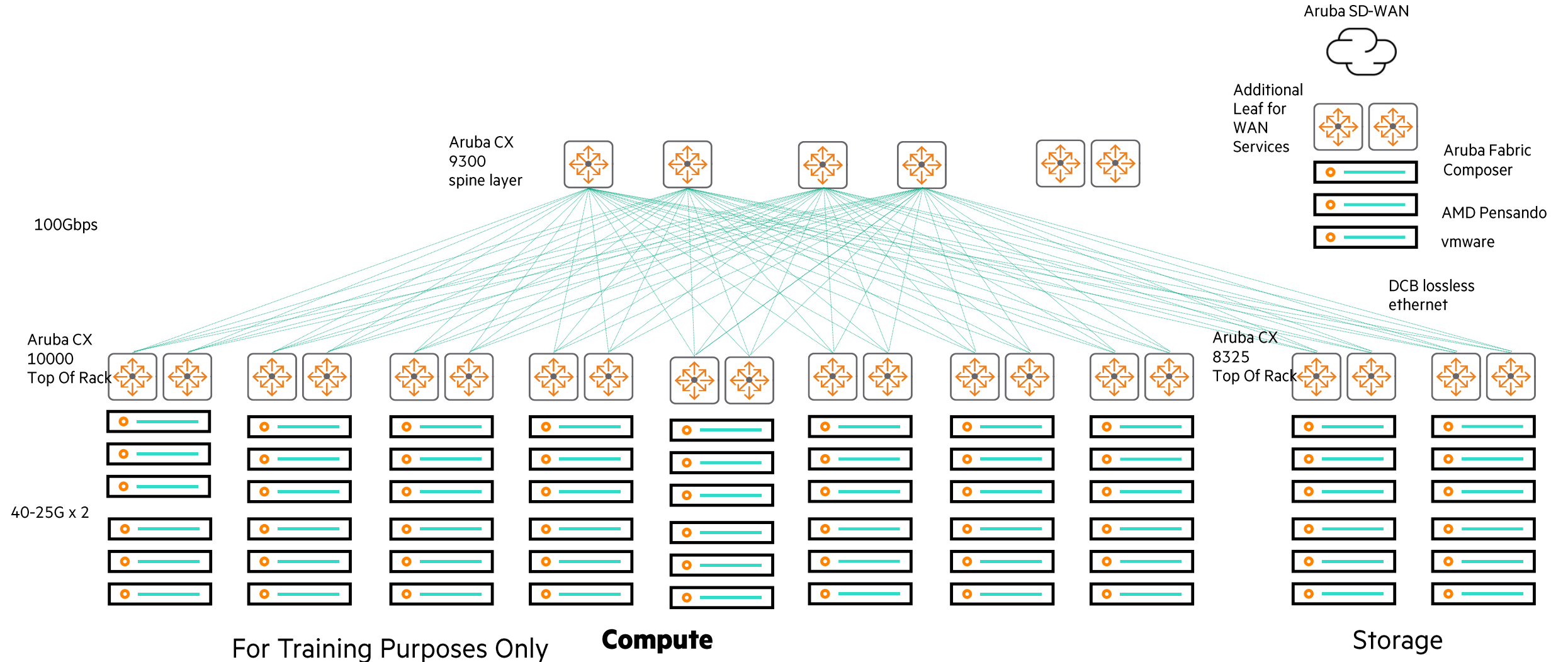


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For Training Purposes Only

The First Challenge!

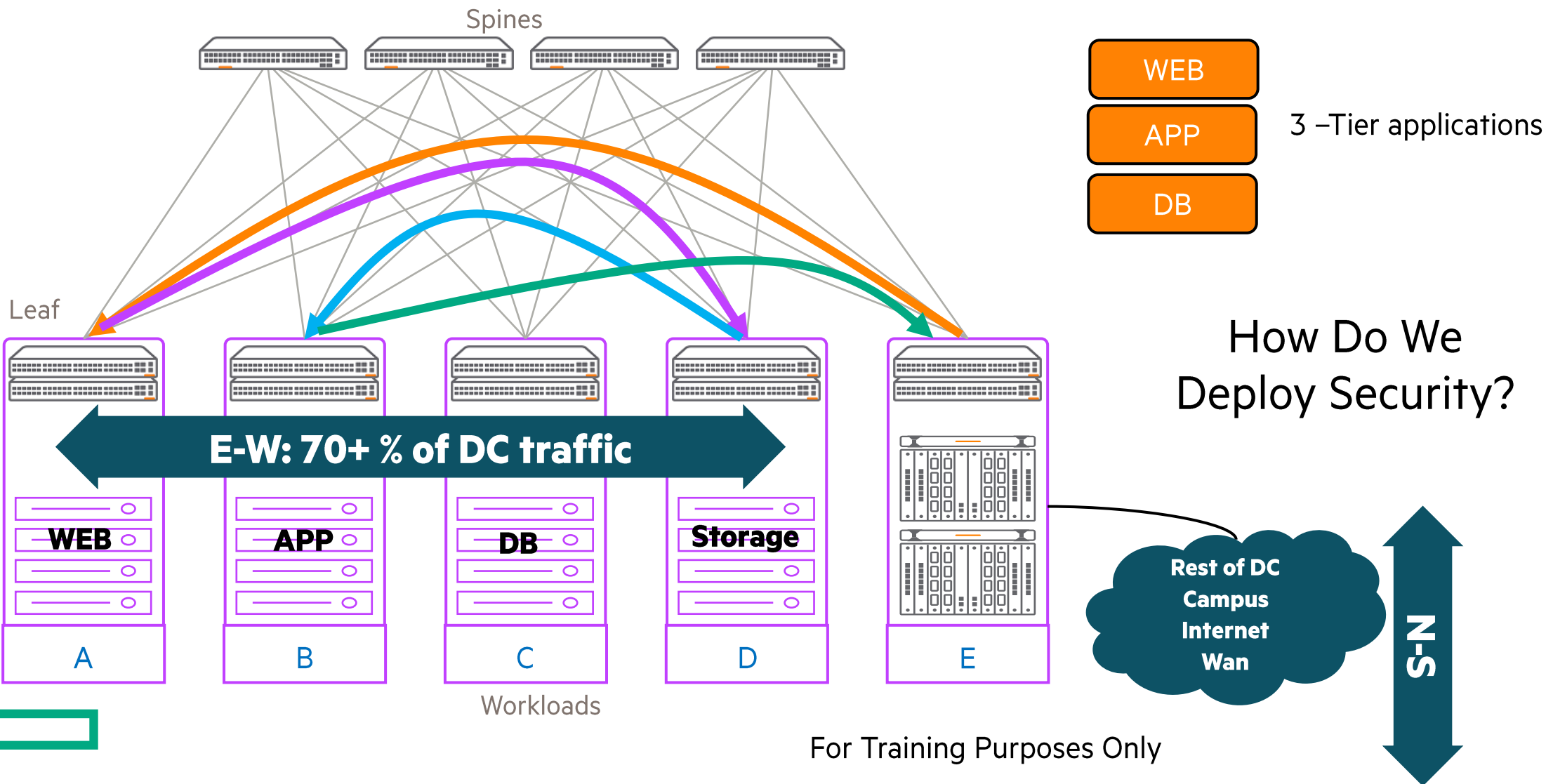
ISCSI (ethernet) attached HPE DL360 servers
for the Software defined storage



Requirements, **40** 1U servers in each rack, 25G. 8 racks compute, 2 racks storage. Automated.

East / West traffic

A New way to build applications!

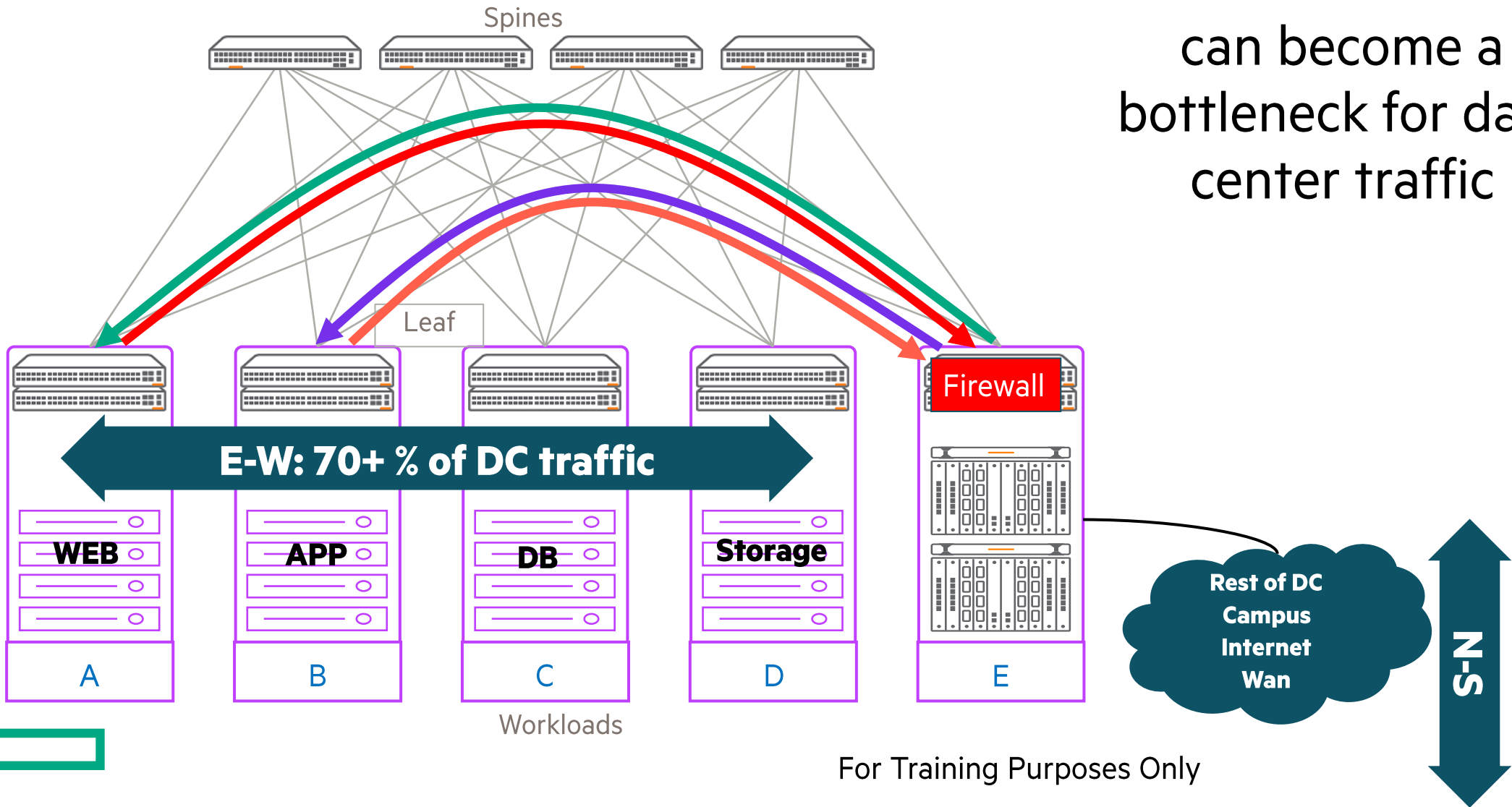


How Do We Deploy Security?

- WEB
 - APP
 - DB
- 3-Tier applications

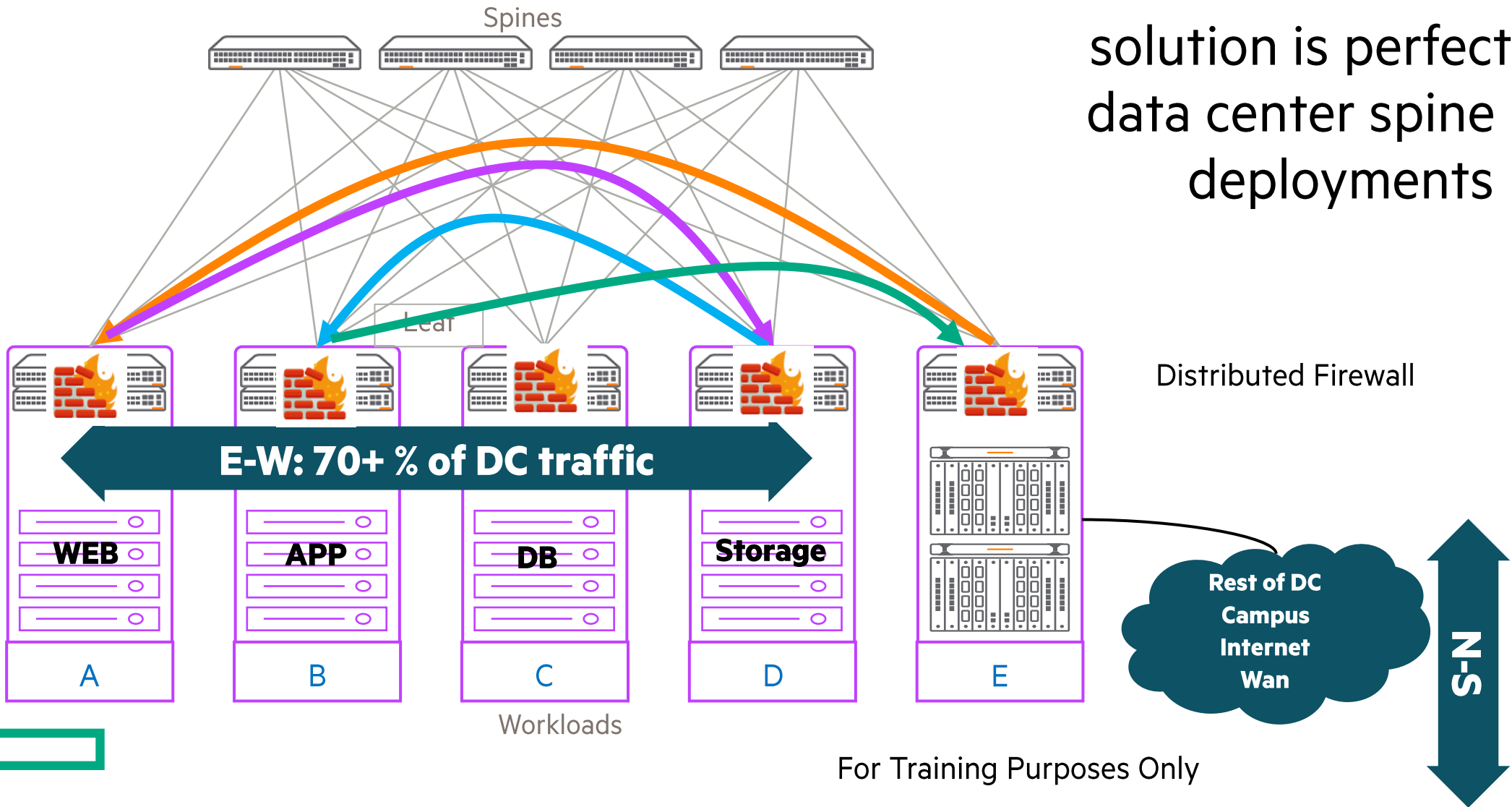
For Training Purposes Only

Centralized Firewall



A Centralized Firewall
can become a
bottleneck for data
center traffic

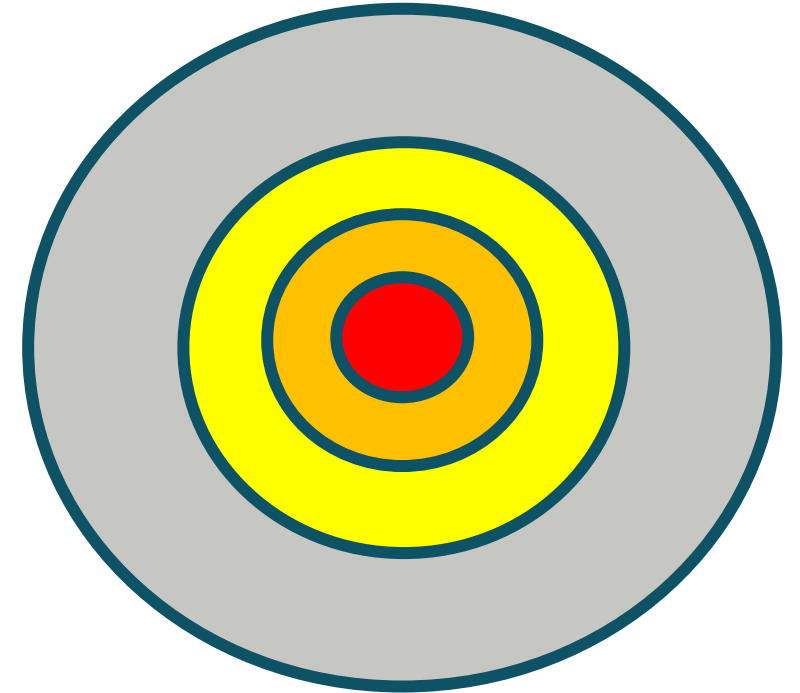
Distributed Firewall



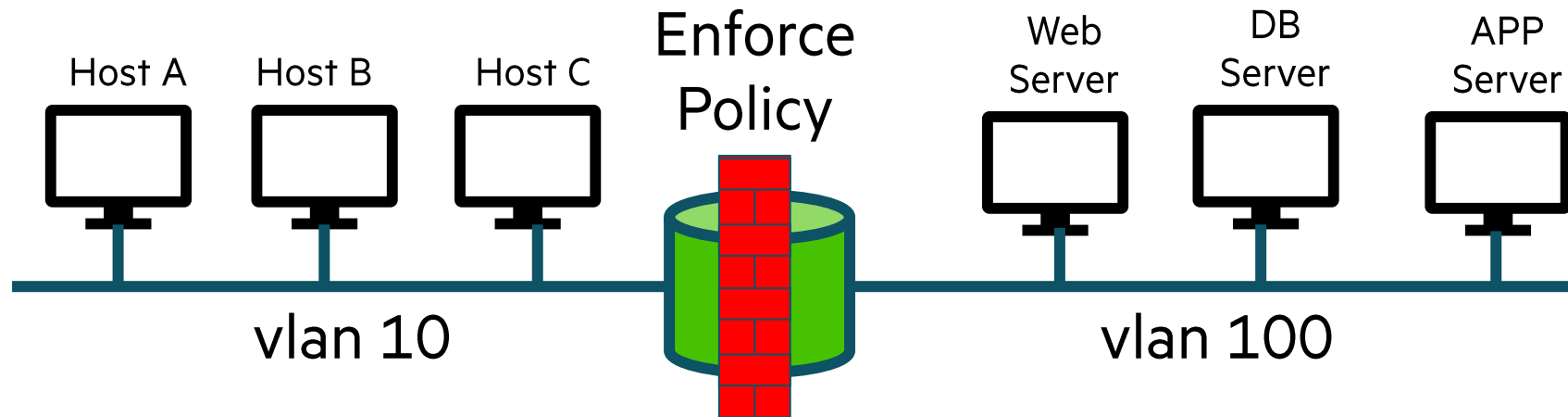
A De-Centralized solution is perfect for data center spine leaf deployments

For Training Purposes Only

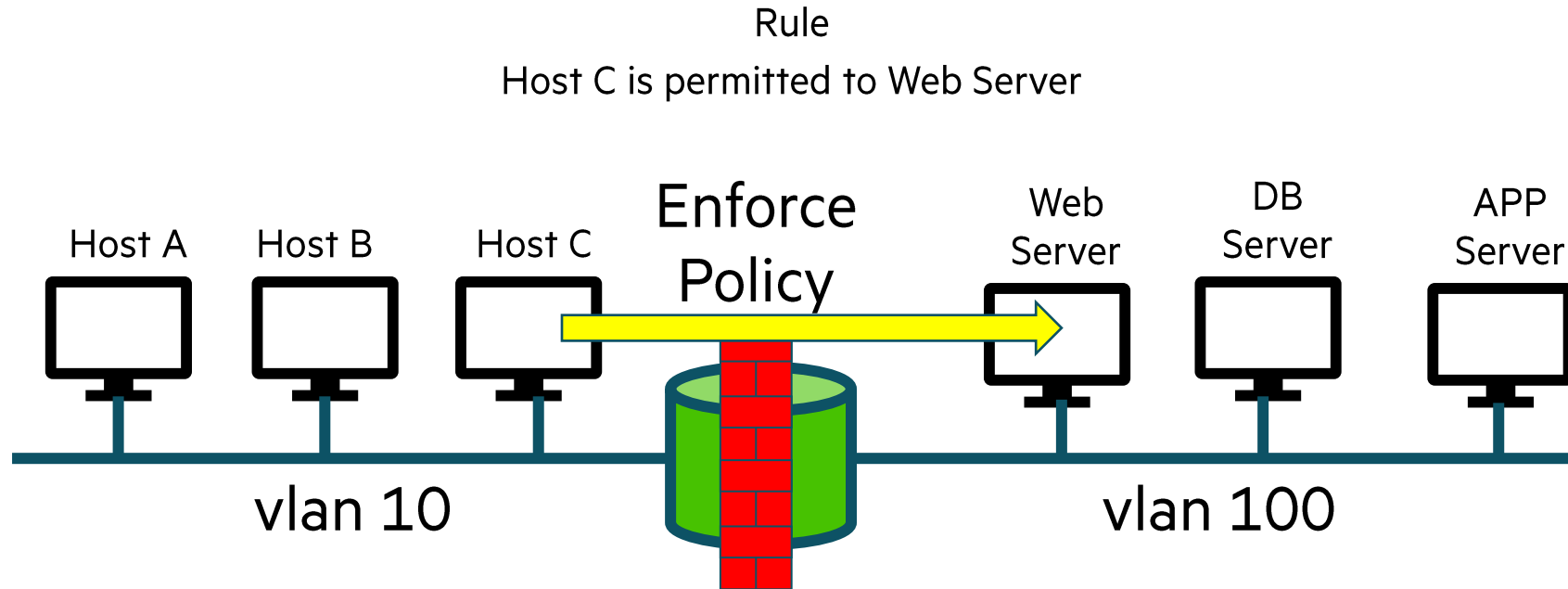
What's Your Blast Radius?



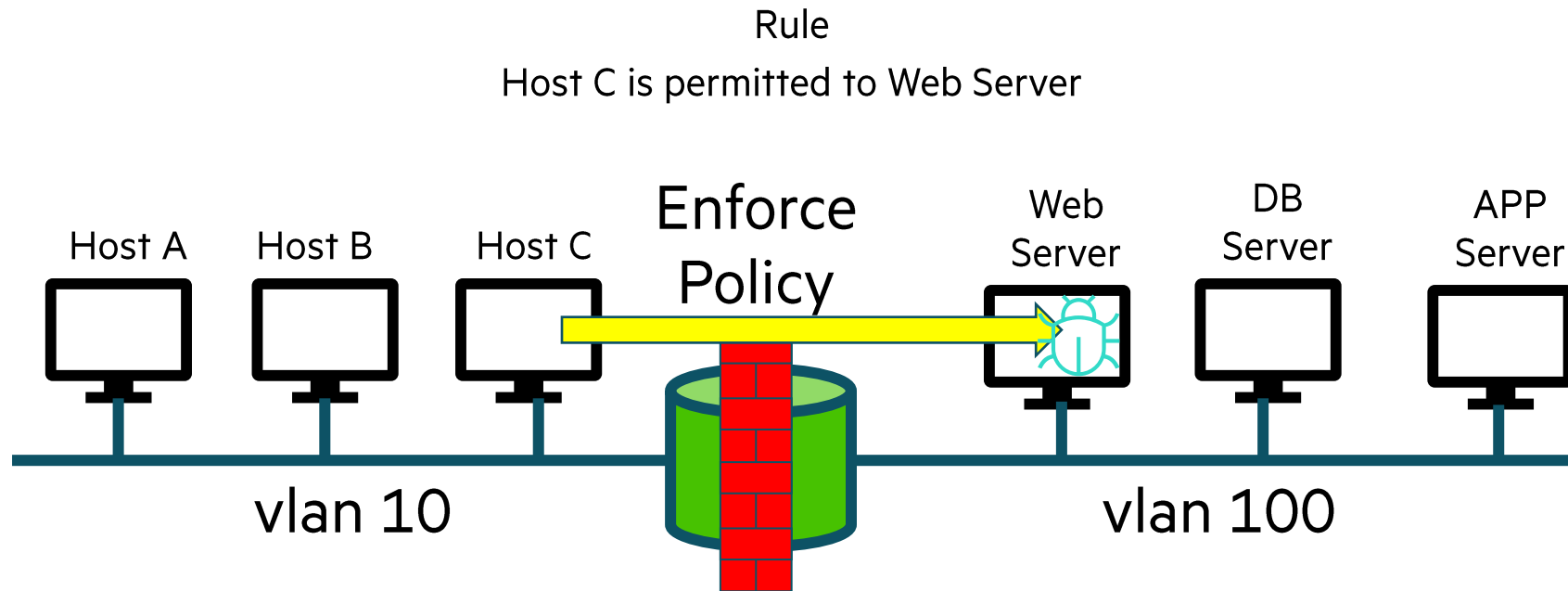
Access Control Lists



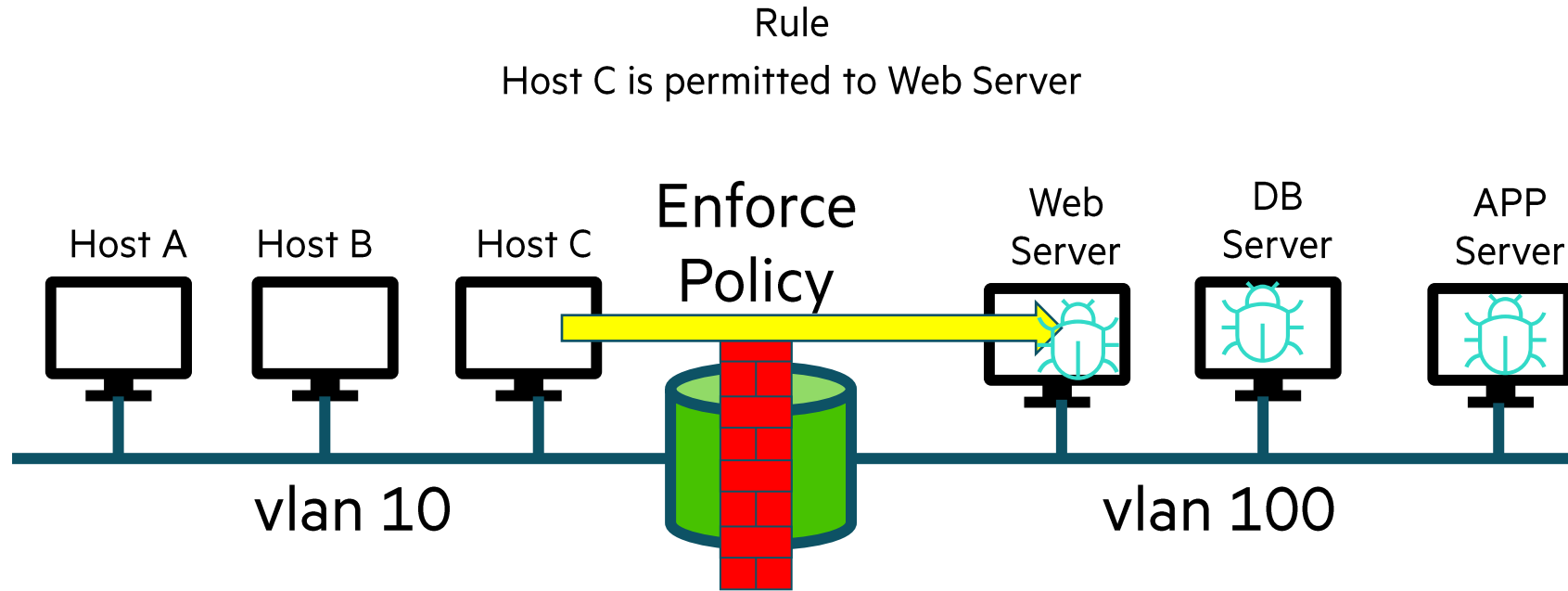
Access Control Lists – Macrosegmentation



Access Control Lists



Access Control Lists



Microsegmentation

Private vlan

- isolated vlan
- primary/promiscuous vlan

Isolated traffic can only be forwarded out the primary vlan

Traffic flows from isolated to primary and then to the DPU

vsphere:

Create DVS

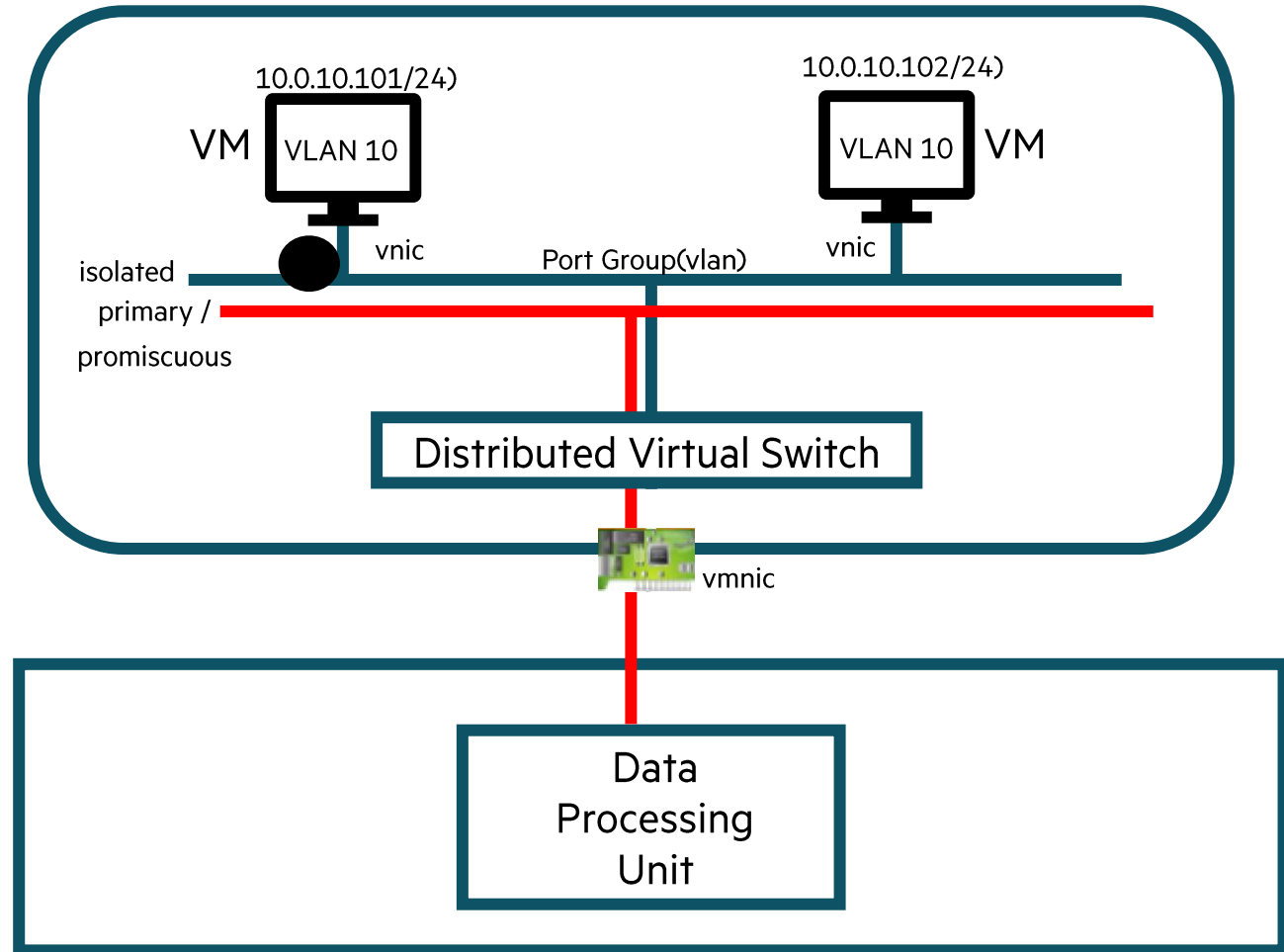
Attach vm's to isolated vlan

Switch:

Configure pvlan

Create svi's for routing

Need to create policy to drive traffic to the DPU



HPE Aruba Networking CX10000

Everything can be accomplished with a workflow in the HPE Aruba Networking Fabric Composer

For Training Purposes Only

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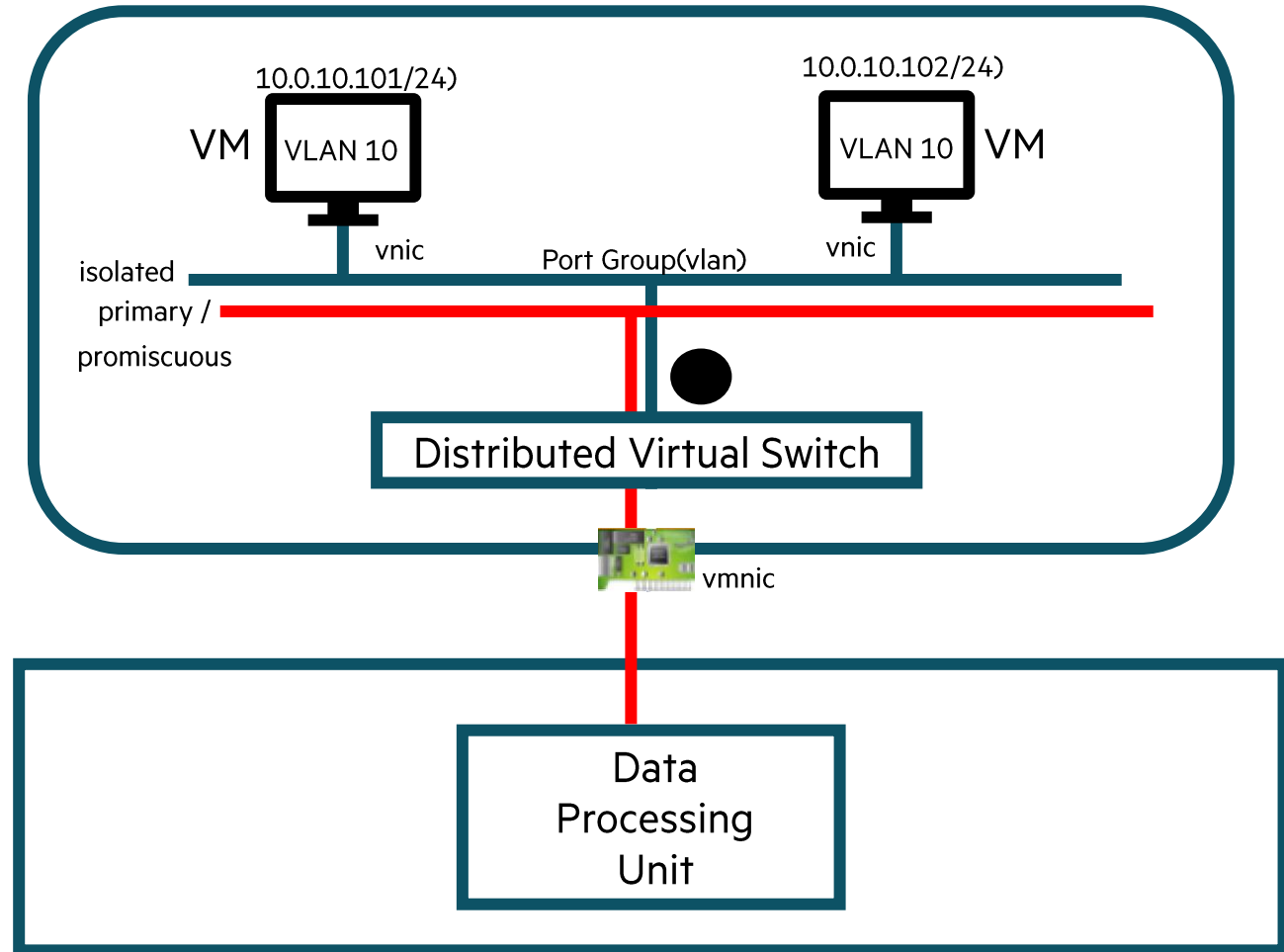
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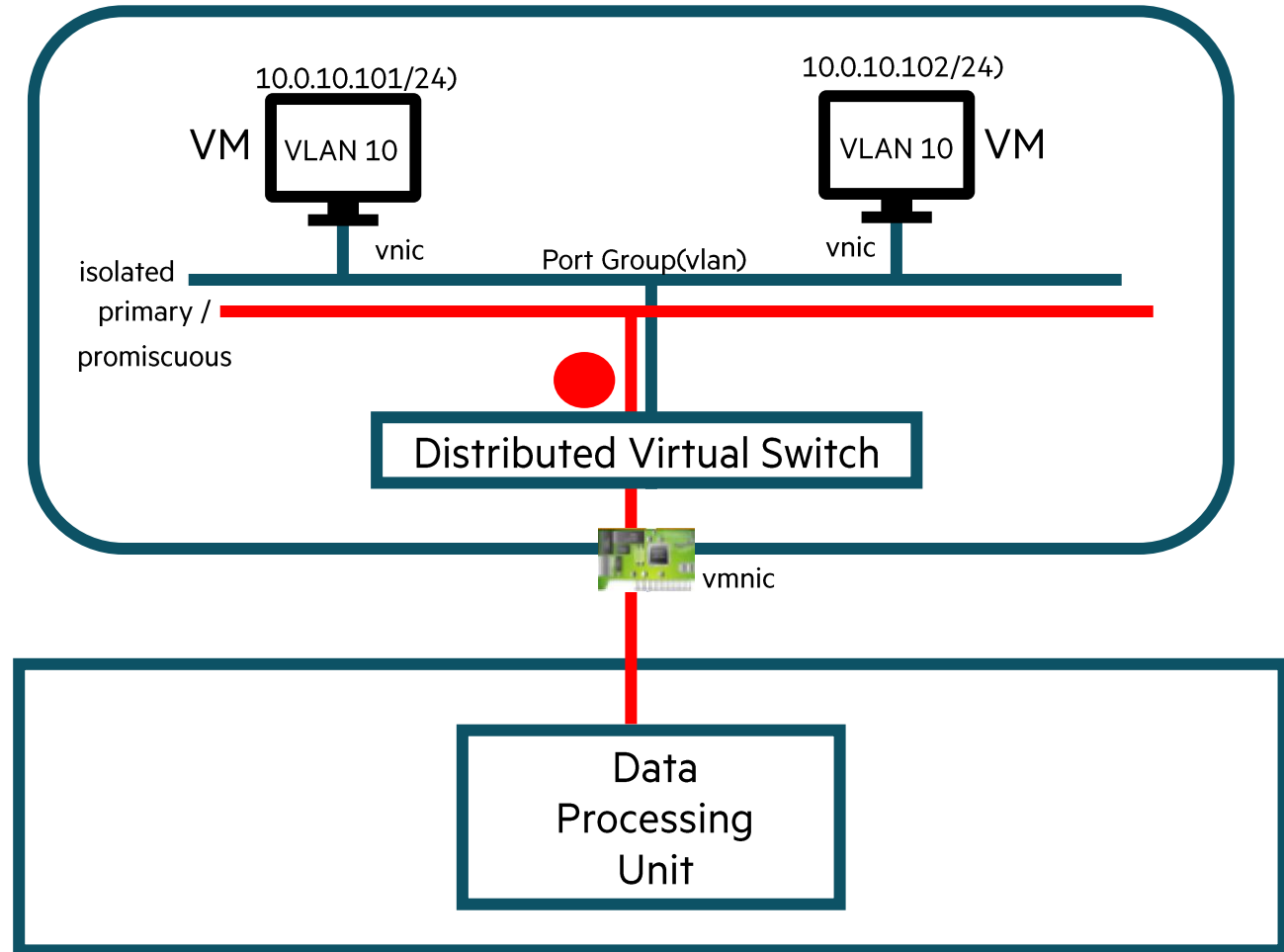
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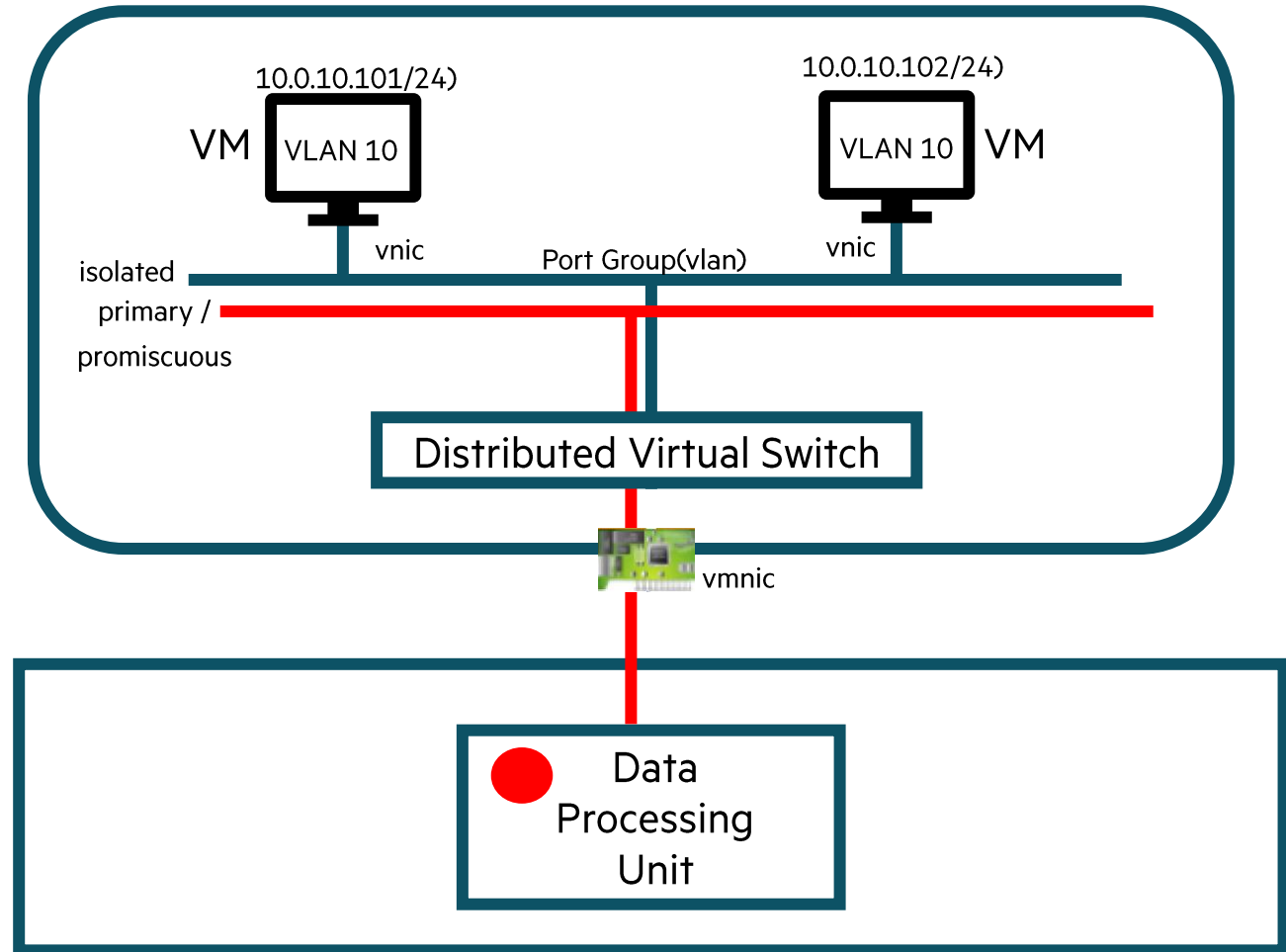
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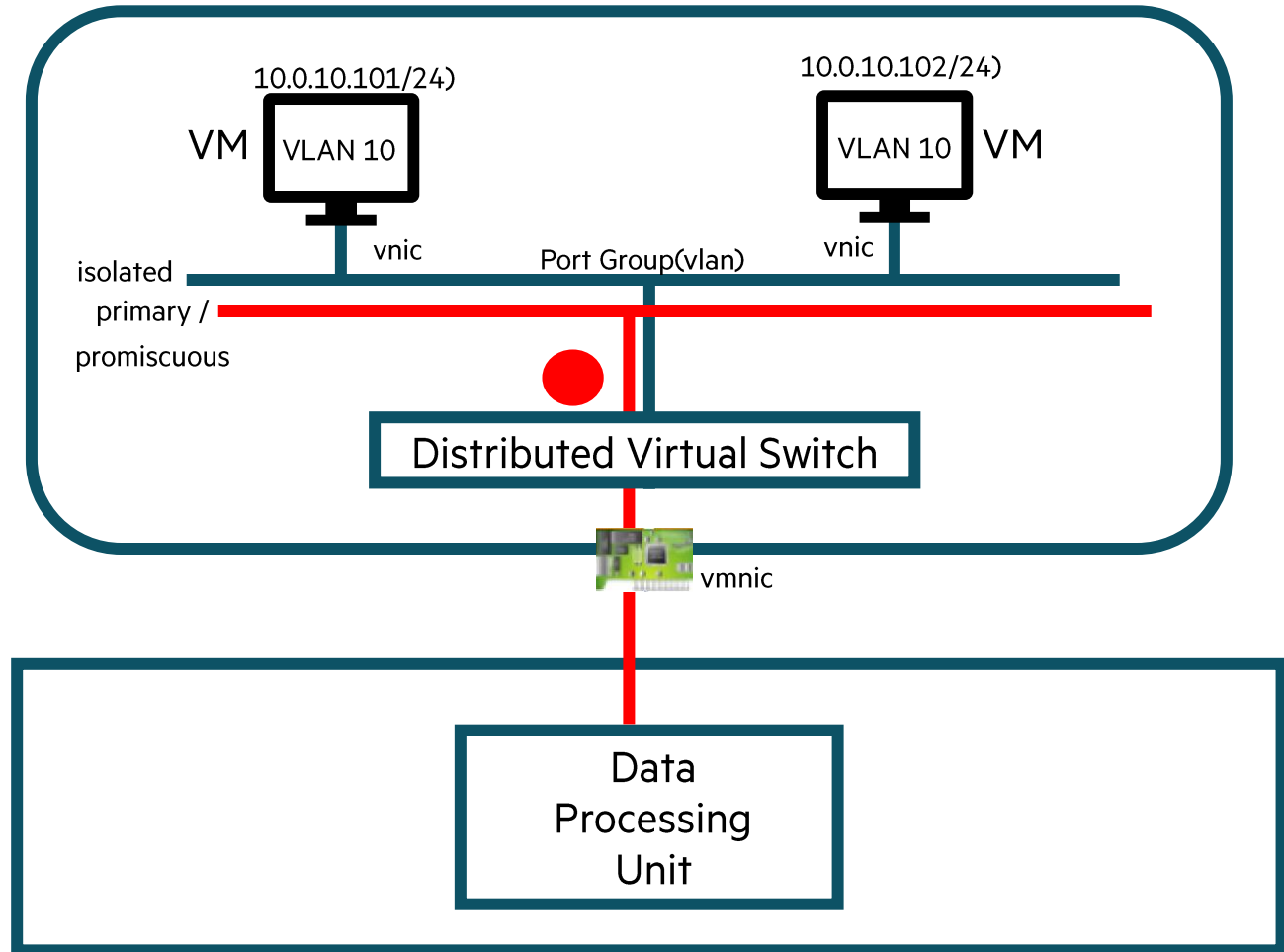
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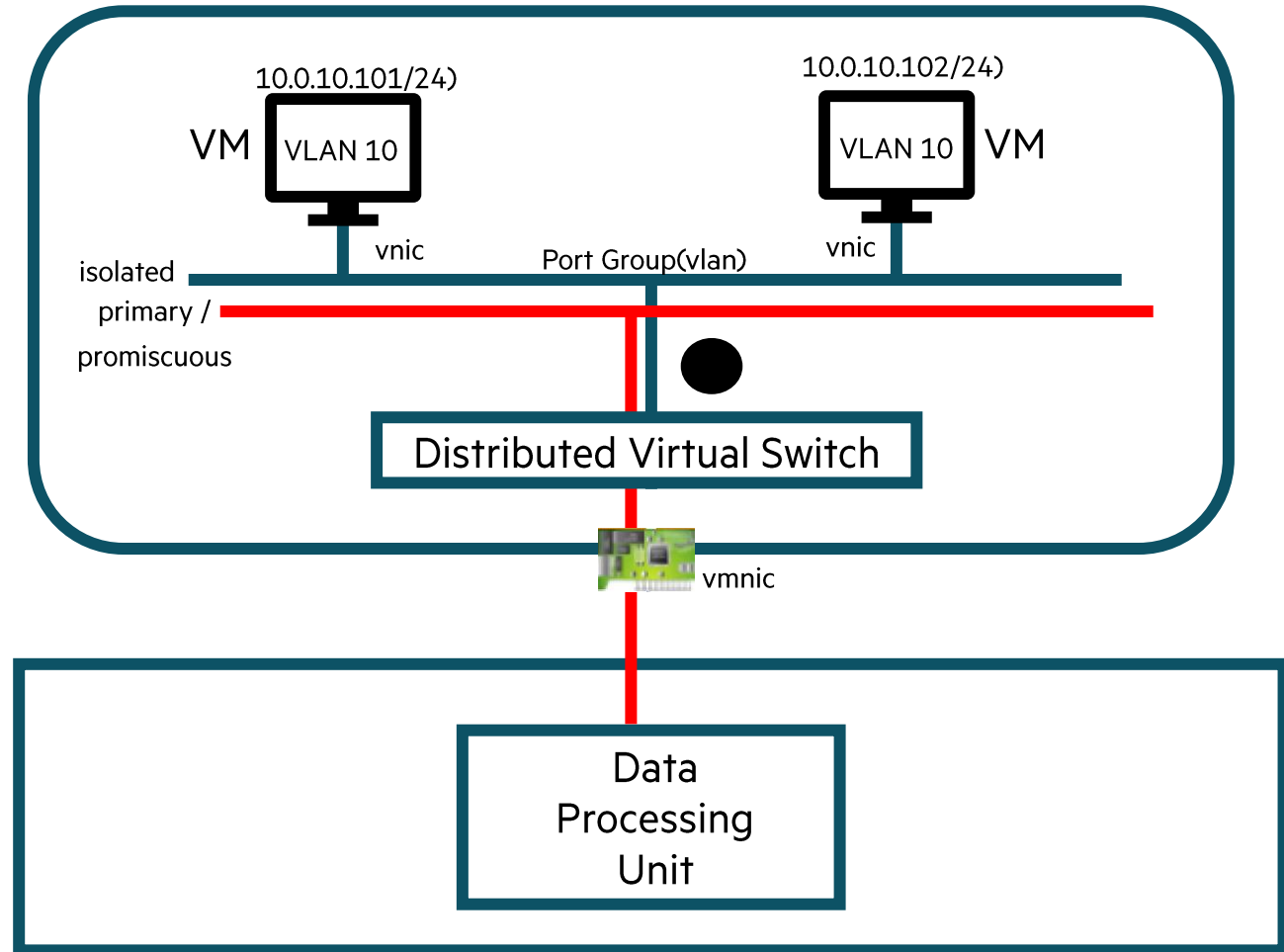
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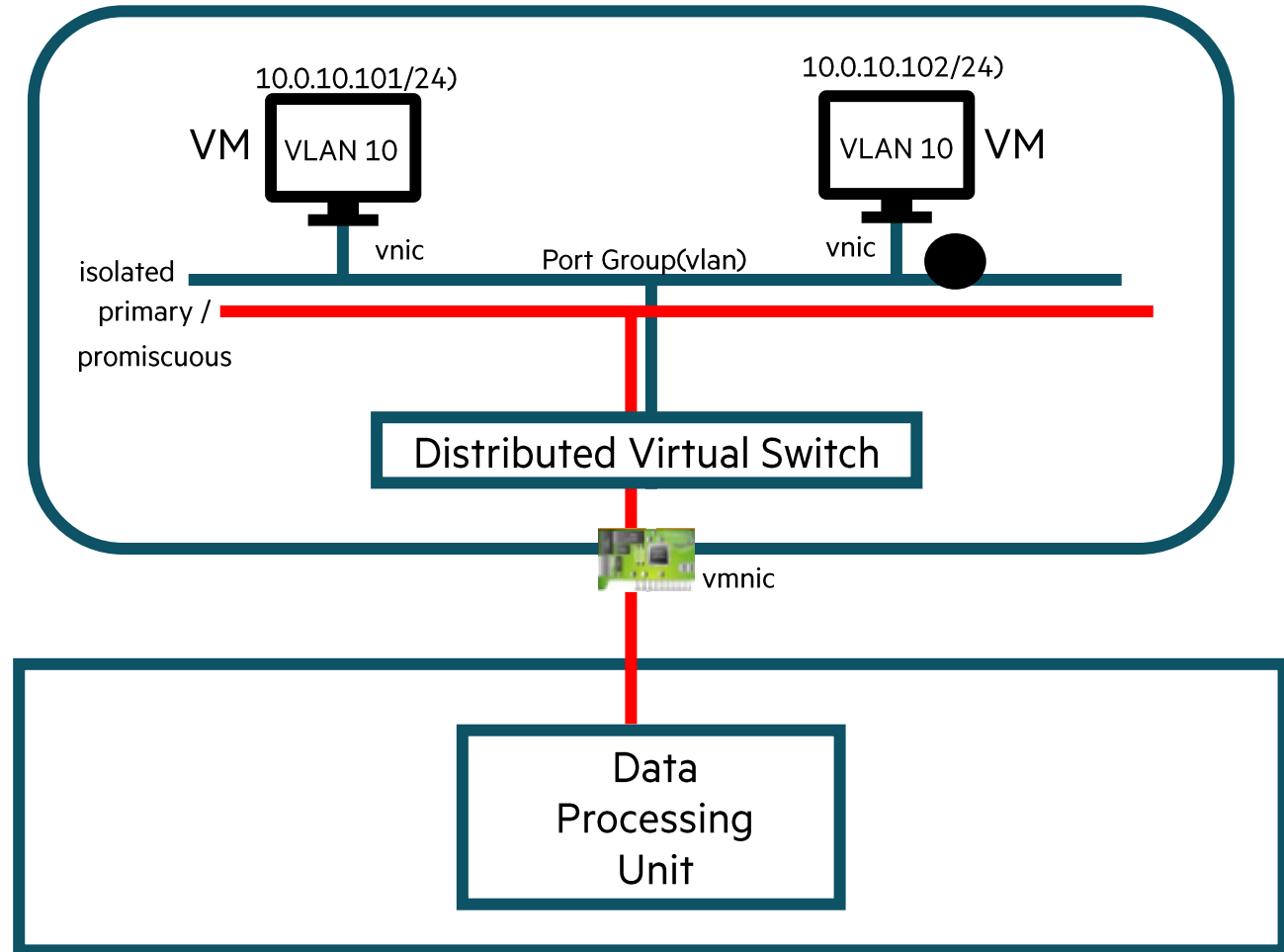
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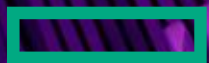
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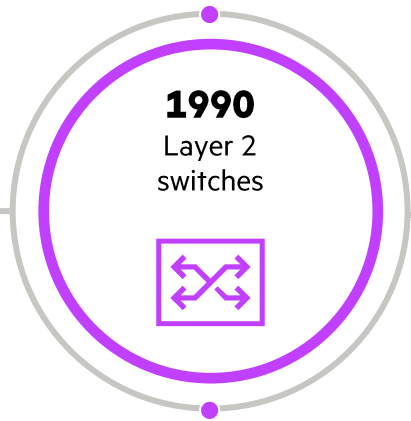
HPE Aruba Networking CX10000

Distributed Services Switch



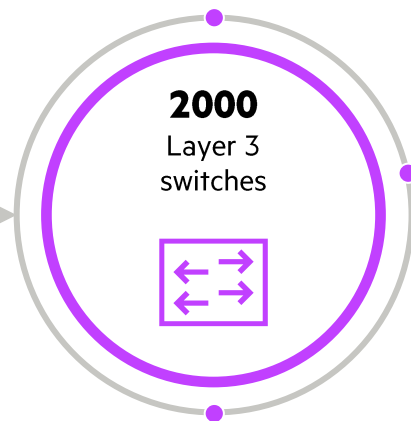
Network architecture evolution

1st generation



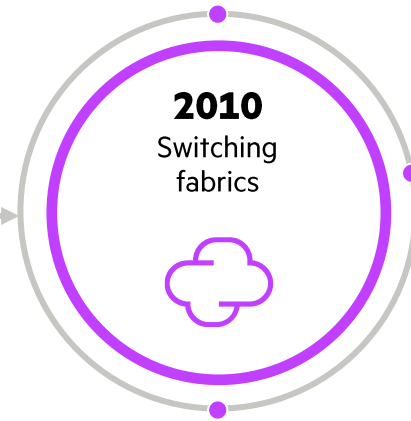
Flat networks, spanning tree, protocol agnostic

2nd generation



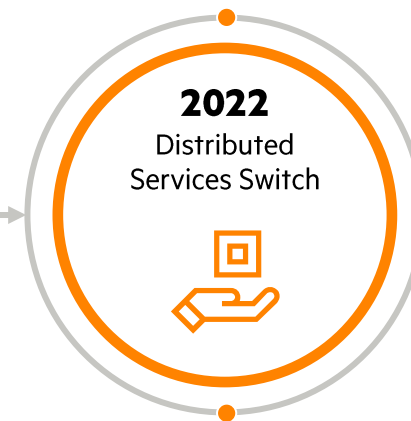
IP becomes the dominant protocol
L3 switching in hardware
3-tier Core-distribution-access designs
Mostly north/south traffic

3rd generation



Explosion of E/W traffic
Spine-leaf underlay / overlay
L2 extension and segmentation using VXLAN/VTEPs
Security is hardware appliance or software-agent based

4th generation



Spine-leaf underlay/overlay
Rich collection of wire rate stateful services
No scalability limitations
Security services embedded at the TOR, delivered inline on every port



Aruba CX10K

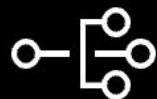
Distributed Services Switch



Full Network functionality, plus 800G embedded Stateful Services



Firewall



DDOS



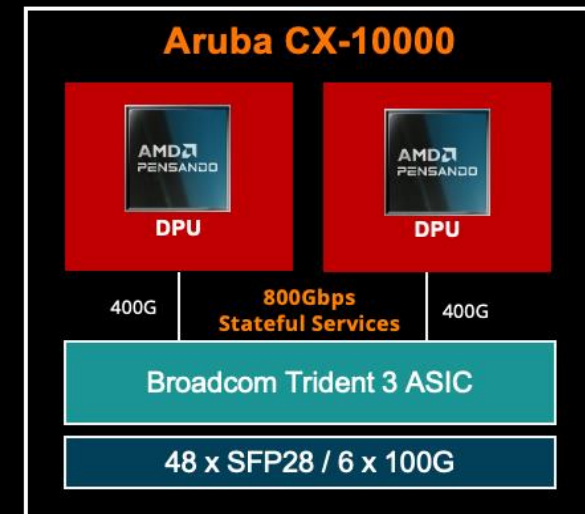
Visibility/
Telemetry



Encryption



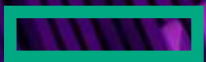
NAT



Unified services platform
Broadcom T3 and AMD/Pensando DPU

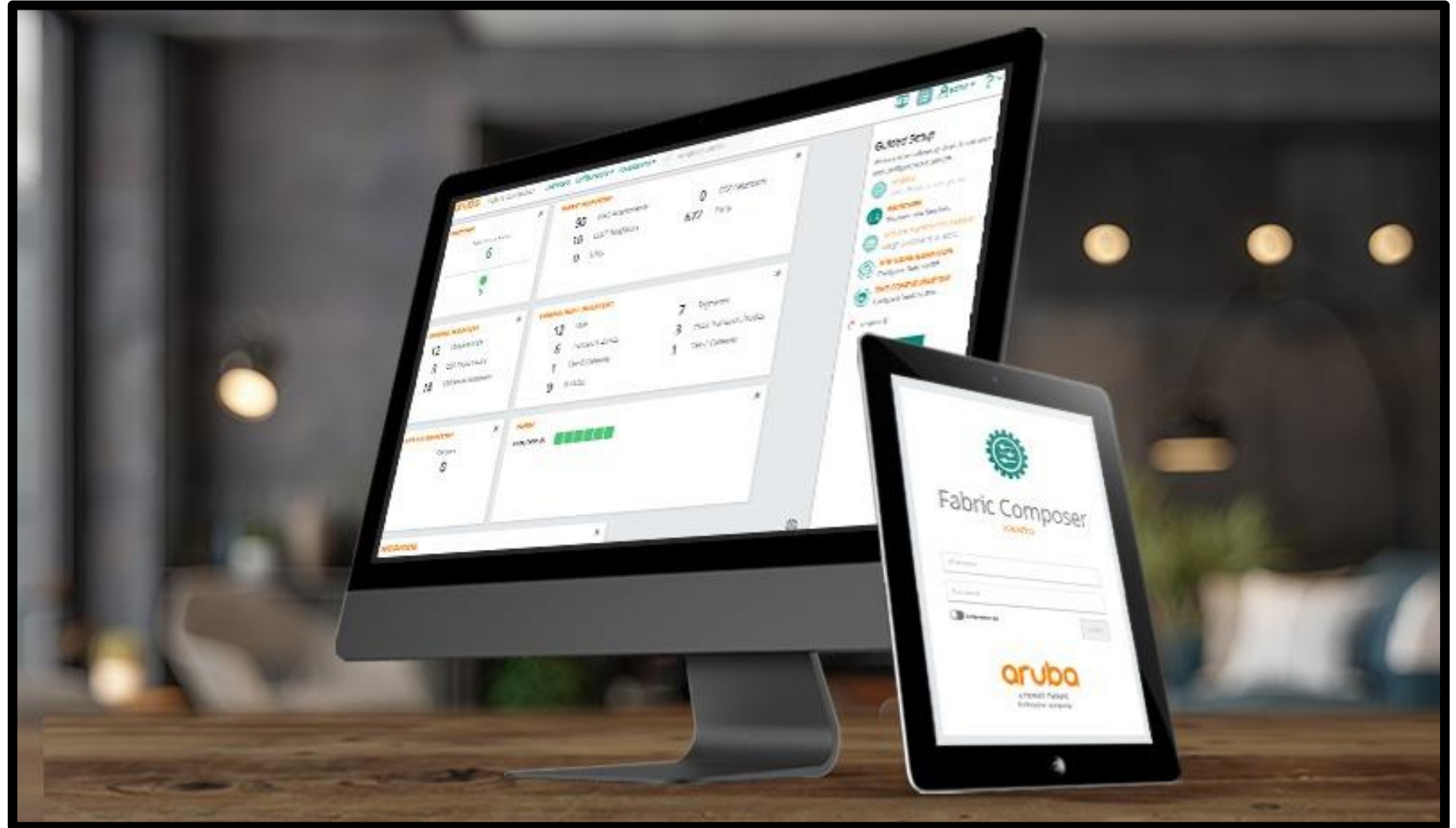
For Training Purposes Only

HPE Aruba Networking Fabric Composer



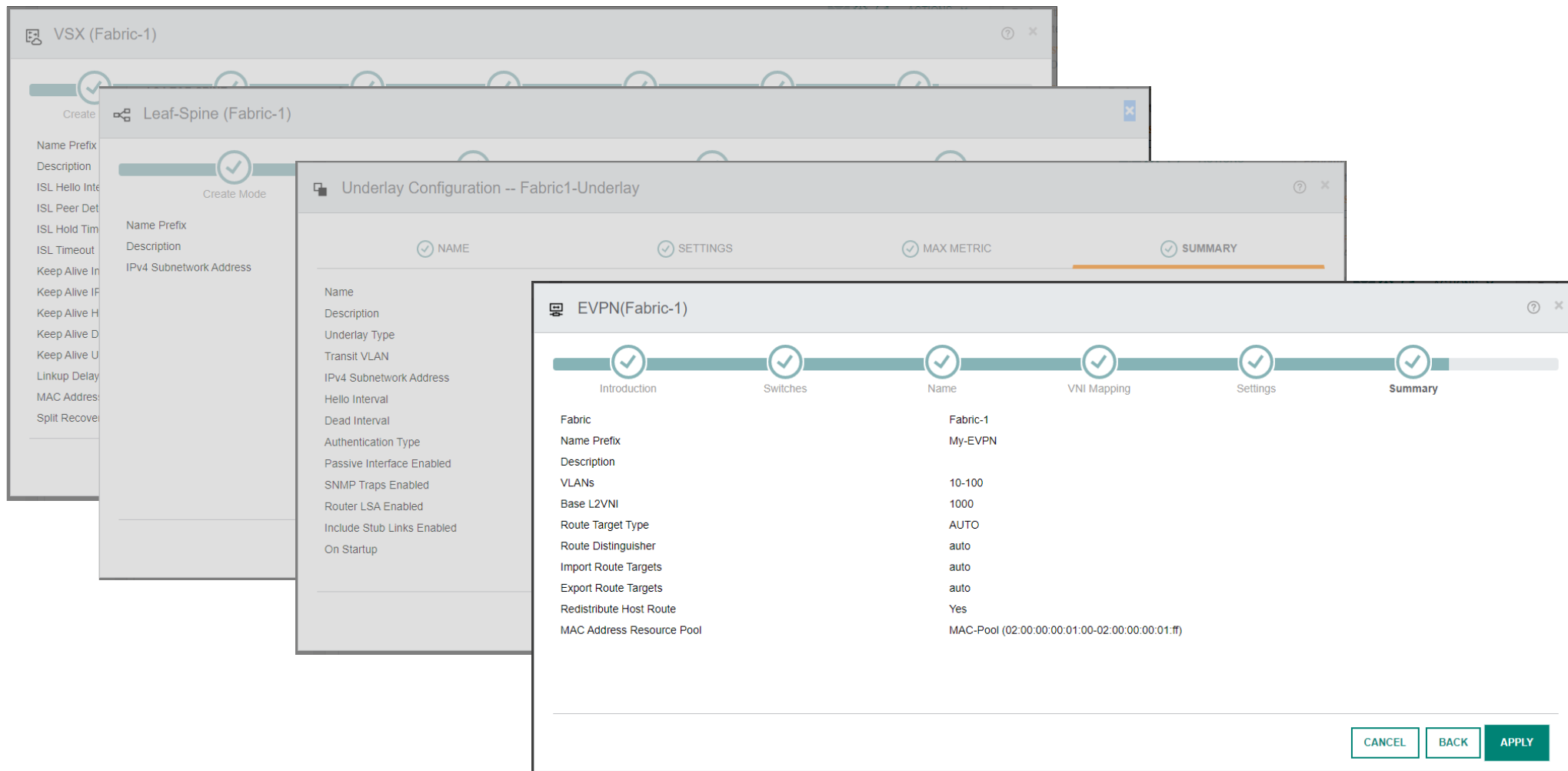
Aruba Fabric Composer

- Automatic VLAN Provisioning
- Fabric Deployment
- Fabric Automation
- Single API
- Security Policy PSM
- Micro-segmentation



Automate thousands of CLI commands, deploy in minutes, using best-practices, and error free.

Not ZTP... No config templates, no merging of variables, no copy/past, no spreadsheets...



The screenshot displays a multi-step configuration workflow in the Aruba Fabric Composer. The windows shown are:

- VSX (Fabric-1)**: A top-level configuration window.
- Leaf-Spine (Fabric-1)**: A configuration window with a 'Create Mode' indicator and a list of parameters on the left, including Name Prefix, Description, ISL Hello Interval, ISL Peer Detection, ISL Hold Time, ISL Timeout, Keep Alive Interval, Keep Alive IP, Keep Alive Hold Time, Keep Alive Delay, Keep Alive Underlay, Linkup Delay, MAC Address, and Split Recovery.
- Underlay Configuration -- Fabric1-Underlay**: A configuration window with tabs for NAME, SETTINGS, MAX METRIC, and SUMMARY. It lists parameters such as Name, Description, Underlay Type, Transit VLAN, IPv4 Subnetwork Address, Hello Interval, Dead Interval, Authentication Type, Passive Interface Enabled, SNMP Traps Enabled, Router LSA Enabled, Include Stub Links Enabled, and On Startup.
- EVPN(Fabric-1)**: A configuration window with tabs for Introduction, Switches, Name, VNI Mapping, Settings, and Summary. It displays a table of configuration details:

Parameter	Value
Fabric	Fabric-1
Name Prefix	My-EVPN
Description	
VLANs	10-100
Base L2VNI	1000
Route Target Type	AUTO
Route Distinguisher	auto
Import Route Targets	auto
Export Route Targets	auto
Redistribute Host Route	Yes
MAC Address Resource Pool	MAC-Pool (02:00:00:00:01:00-02:00:00:00:01:ff)

At the bottom of the EVPN window, there are buttons for CANCEL, BACK, and APPLY.



Hosts Visualization

Filters

Fabric: PM-NTNX-Fabric

Selection: Hosts

Settings

- Show Hosts
- Show Selection Table
- Hide Disconnected NICs

Displaying: 4 of 7 Hosts, 9 of 9 Virtual Machines

Settings

Zoom: 50%

Truncation: Start, Middle, End, None

17 Characters

Visualize paths from VMs to Switch Ports

Visualize Important Host Details

Host status and controls for HPE Servers

Inspect Details

Real-time vMotion visibility

Port

Name	port19
Port ID	19
Mode	Access
Enabled	Yes
Link State	Link Up
Speed	25Gbps
Speed Group	19
Port Type	SFP
VLANs	100, 150, 180, 200, 250
Native VLAN	1
LAG	pm-ntnx360-3
Port Security	Disabled

Host

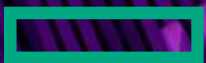
Name	pm-ntnx360-1
Product Name	ProLiant DX360 Gen10 88FF
Health	OK
Serial Number	MXG0001DN
Hypervisor	ivm
VMs	1
Cluster	pm-ntnvcva-1
Cluster Version	5.10.9
ILO IP V4 Address	172.18.255.187
ILO IP V6 Addresses	fe80:9540:c9ff7e2e:2762
ILO Host UUID	32903150-3033-5048-5190-30023031444e
Power Status	On

Actions

- Turn UID Indicator On
- Modify Host Power
- Launch HPE iLO UI: 172.18.255.187

For Training Purposes Only

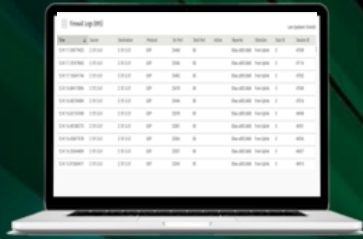
AMD Pensando PSM



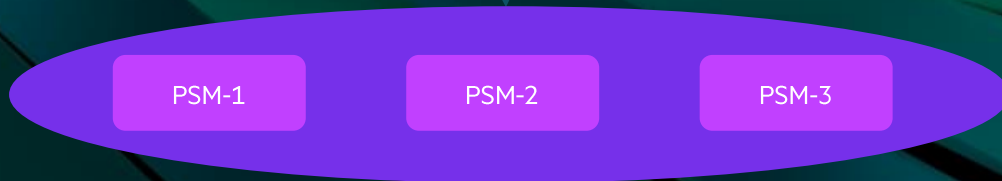
PSM Functions



Pensando Policy and Services Manager



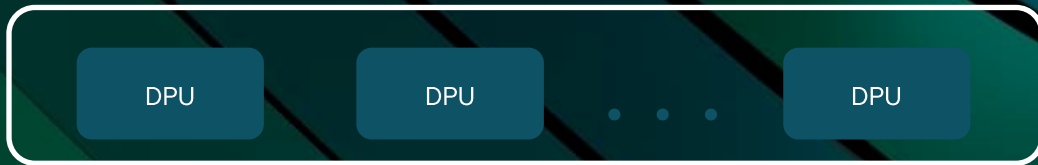
REST



High Availability

Cluster

gRPC(TLS)



Data Processing Units (DPU)

Management and Security

High Availability, Certificate Management, TLS Communication, Authn/Authz

Policy & Configuration

Declarative Intent, Distribution, Status Reporting
Configuration Backup, Restore

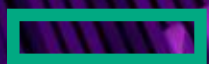
Observability and Analytics

Health Monitoring, Metrics Aggregation
Flow Logs, Object Relationships, Impact analysis

Operations

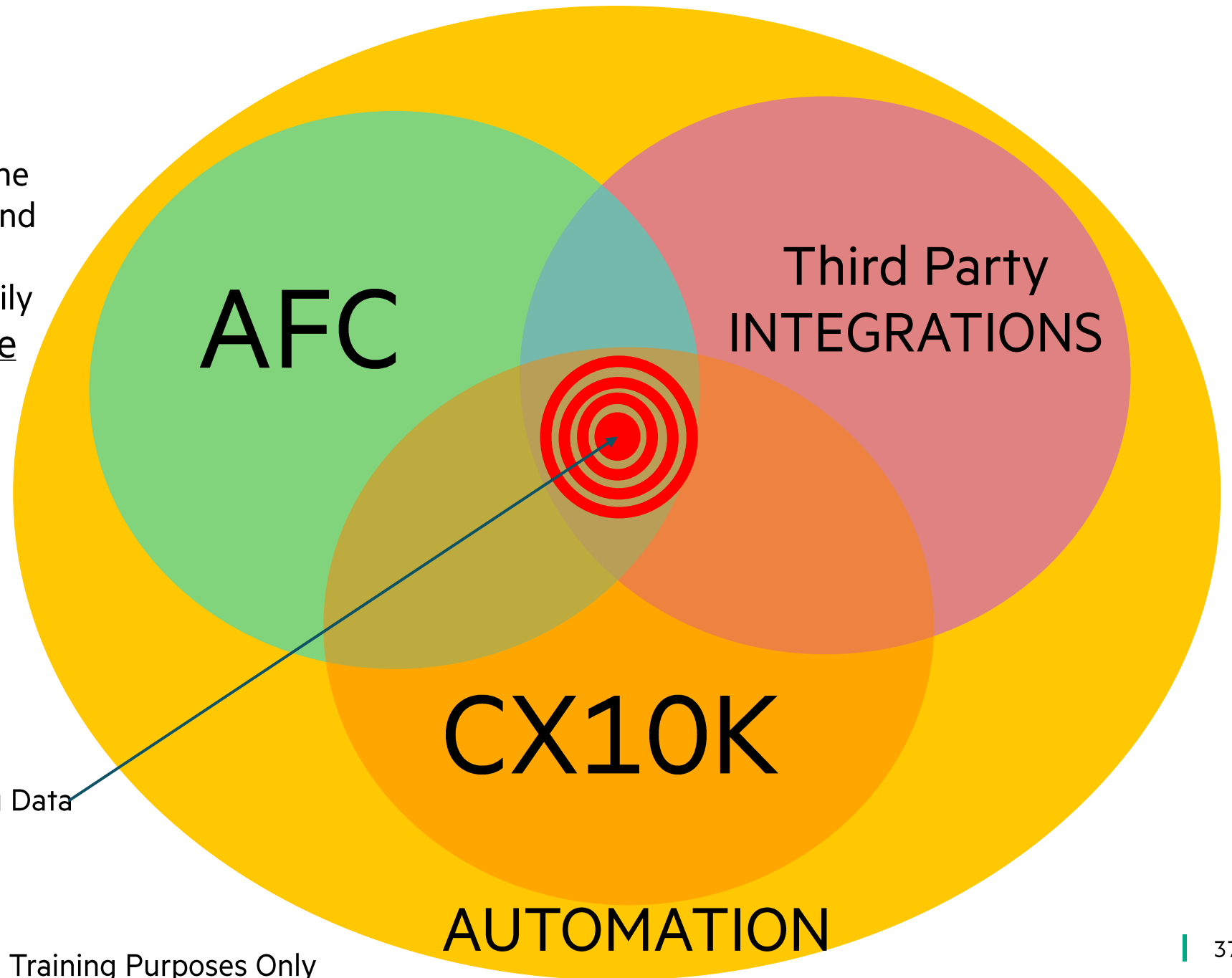
Events, Alerts, Troubleshooting, Search, Configuration Lookup, API Watchers

The Whole Story



Better Together

Not all data center fabrics are the same. They vary wildly in size and capabilities. They do have one thing in common, they are heavily automated. Tell the complete story, a fully automated, programmable, scalable network that has an awareness of workloads

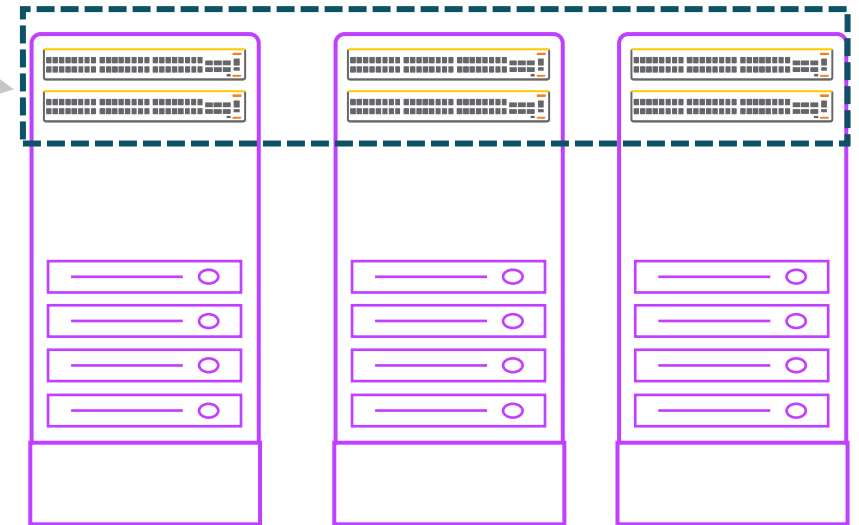


Unified Services & Security Policy

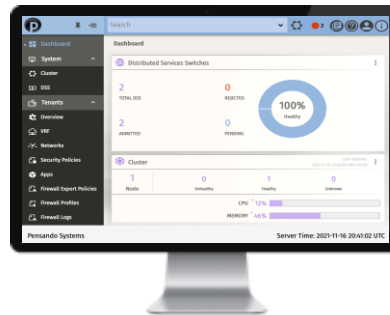
Manages switches



Aruba CX 10000



Manages DPUs



PSM

- Security policy
- FW Logs
- Diagnostics

VMware APIs

CX APIs

PSM APIs

CX APIs



Now part of Akamai
Application Dependency Maps

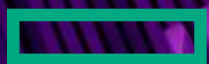


AFC

- Unified infrastructure
- Fabric discovery & automation
- Policy - ALC, Distributed FW
- Micro segmentation orchestration
- Physical & virtual visualization

For Training Purposes Only

HPE GreenLake with COLO

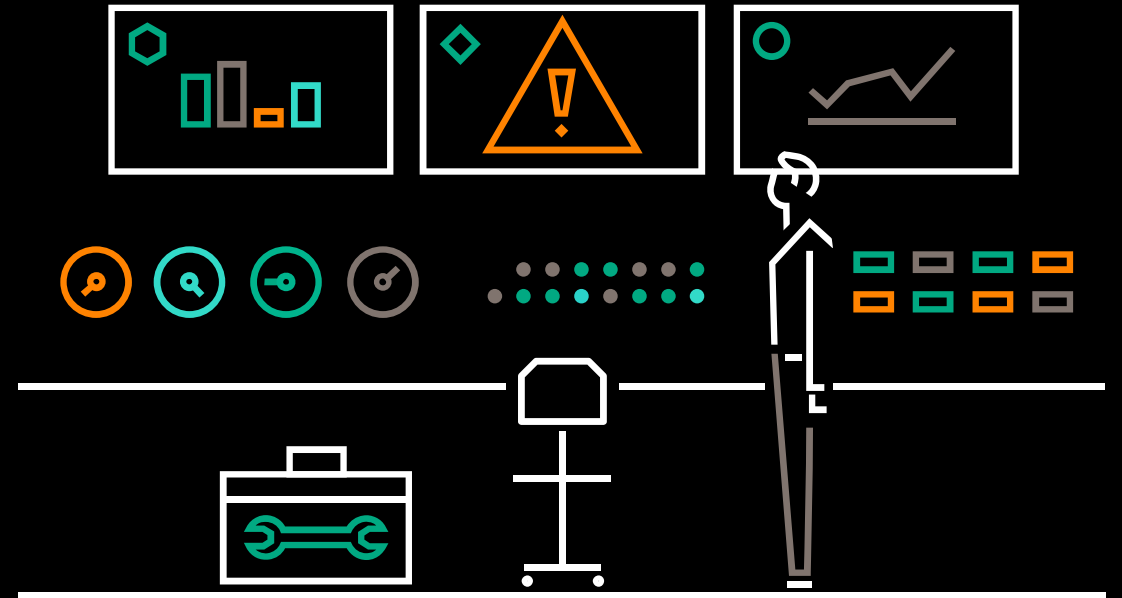


Optimize the infrastructure

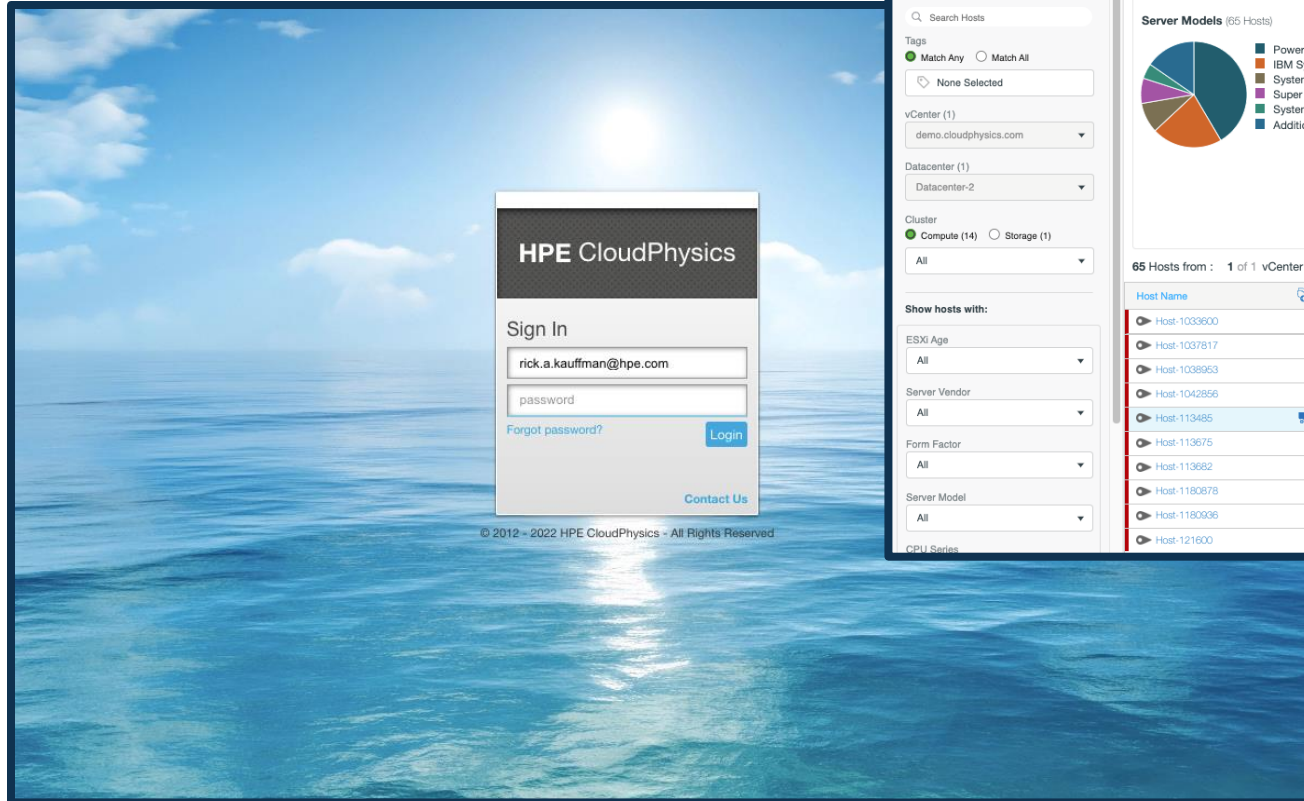
If you are moving your infrastructure “as is” you could be wasting a lot of valuable resources.

- Right Sized vCPUs/memory/storage
- Current operating systems
- Compatible Hardware

Right sizing resources can result in a great sustainability story...use it!



HPE Cloud Physics



HPE Infrastructure Assessm... HPE Infrastructure Assessm... HPE Infrastructure Assessm... Infrastructure Planning Cloud Simulators Performance Troubleshooting Sto >> My Cards Edit Card Decks

Filters Reset All 65 Results Host Analysis Customer Value Story All Need Attention (65) All Noteworthy (64) ALL

Infrastructure Scope

Search Hosts

Tags

Match Any Match All

None Selected

vCenter (1)

demo.cloudphysics.com

Datacenter (1)

Datacenter-2

Cluster

Compute (14) Storage (1)

All

Show hosts with:

ESXi Age

All

Server Vendor

All

Form Factor

All

Server Model

All

CPU Series

Hide

Server Models (65 Hosts)

- PowerEdge R610 27 (42%)
- IBM System x3550 M4 14 (22%)
- System x3550 M3 -[794... 6 (9%)
- Super Server 5 (8%)
- System x3550 M3 -[794... 3 (5%)
- Additional Models 10 (15%)

Hypervisor Releases (65 Hosts)

Support Ends Technical Guidance Ends

ESXi 5.5 65 19 Sep 2018 19 Sep 2020

Tip: hover each colored bar to view details by build.

65 Hosts from : 1 of 1 vCenter

Host Name	Server Model	Hardware Compatibility	CPU Series	ESXi Version	ESXi Support by VMware	CP
Host-1033600	System x3550 M3 -[7944D2M]-	Not in HCL	Intel(R) Xeon(R) CPU E5620 @ 2.40GHz	5.5 Express Patch13	End of Support	
Host-1037817	Super Server	Not in HCL	Intel(R) Xeon(R) CPU E5-2699 v4 @ 2.20GHz	5.5 U3a	End of Support	
Host-1038963	Super Server	Not in HCL	Intel(R) Xeon(R) CPU E5-2699 v4 @ 2.20GHz	5.5 U3a	End of Support	
Host-1042856	Lenovo System x3750 M4	Unsupported by 5.5 VMSA-2018...	Intel(R) Xeon(R) CPU E5-4640 0 @ 2.40GHz	5.5 VMSA-2018-0020*	End of Support	
Host-113485	System x3550 M3 -[7944JHM]-	Not in HCL	Intel(R) Xeon(R) CPU X5650 @ 2.67GHz	5.5 U3 VMSA-2018-0004.3	End of Support	
Host-113675	ProLiant DL380 G7	Not in HCL	Intel(R) Xeon(R) CPU X5690 @ 3.47GHz	5.5 U1a	End of Support	
Host-113682	ProLiant DL380 G6	Not in HCL	Intel(R) Xeon(R) CPU X5690 @ 2.80GHz	5.5 U1a	End of Support	
Host-1180878	Lenovo System x3550 M5	Unsupported by 5.5 U3a	Intel(R) Xeon(R) CPU E5-2630 v4 @ 2.20GHz	5.5 U3a	End of Support	
Host-1180936	Super Server	Not in HCL	Intel(R) Xeon(R) CPU E5-2699 v4 @ 2.20GHz	5.5 U3 VMSA-2018-0004.3	End of Support	
Host-121600	PowerEdge R610	Not in HCL	Intel(R) Xeon(R) CPU X5650 @ 2.67GHz	5.5 U3 VMSA-2018-0004.3	End of Support	

For Training Purposes Only

Transform your business, strategically

In March 2022, the SEC proposed a rule – The Enhancement and Standardization of Climate-Related Disclosures for Investors – that would require U.S. publicly traded companies to disclose annually how their businesses are assessing, measuring and managing climate-related financial risks.

55%

of enterprises will replace outdated operational models with cloud-centric models by 2023¹

75%

of organizations will implement a **data center infrastructure sustainability program** by 2027²

35%

decline in enterprise-owned data center capacity by 2027, due to migration to XaaS-based applications²

Only **60%**

of data center infrastructure teams will have **relevant automation and cloud skills** by 2026²

35%

of data center infrastructure will be managed through a **cloud-based control plane** by 2027²

HPE has a proven approach to develop a customized transformation strategy and operating model for our clients.

1 IDC: FutureScape: Worldwide Cloud 2021 Predictions

2 Gartner: Predicts 2023: XaaS Is Transforming Data Center Infrastructure

Why colocation?

Hybrid Cloud

Cloud

On-Prem

Cloud-native

Net-new development

Agile

Control

Compliance

Data gravity

Security

Sovereignty

Complex, dual IT operating environment



..... Competition for capital



Siloed operations and tools

Talent scarcity

Lack of visibility and governance

Performance

Interdependencies with other systems

For Training Purposes Only

HPE GreenLake the 4th cloud

Public
Amazon

Public
Google

Public
Azure

Private



Cloud
Adjacent

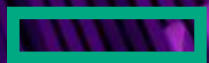
The cloud that comes to you

HPE GreenLake Cloud Services, including ML Ops, containers, data protection, VMs, compute and storage

1. Reserve max capacity

For Training Purposes Only

Aruba Data Center Advanced Learning Path



Learning Path Sessions

HPE Tech Pro

techpro.hpe.com

The screenshot shows a web browser window with the URL mylearninghpe.com/hpcpbenefits/learningPaths.aspx. The browser's address bar and tabs are visible at the top. On the left side, there is a navigation menu with a list of learning paths. The path "Data Center Networking Advanced" is selected and highlighted with a green checkmark. The main content area on the right is titled "DATA CENTER NETWORKING ADVANCED" and contains a section for "Learning Path Details". Under this section, there are two sub-sections: "Awareness" and "Competency". Each sub-section lists several learning sessions with their respective durations in minutes.

DATA CENTER NETWORKING ADVANCED

[Learning Path Details](#) ▲

Awareness

- [Data Center: Your New Superpower \(43 minutes\)](#)
- [Data Center: Application Driven Architecture \(49 minutes\)](#)
- [Data Center: Everything But The Network \(43 minutes\)](#)
- [Data Center: Connections \(51 minutes\)](#)
- [Data Center: Automation \(41 minutes\)](#)
- [Data Center: Storage Fabrics \(39 minutes\)](#)
- [Data Center: Artificial Intelligence \(43 minutes\)](#)
- [Data Center - Transceiver Deluxe \(46 minutes\)](#)

Competency

- [DCN 200 Aruba CX 10000 \(44 minutes\)](#)
- [Data Center: Aruba Product Automation \(56 minutes\)](#)
- [DCN-202 Pensando and Elastic \(21 minutes\)](#)
- [DCN 203 Workloads \(27 minutes\)](#)
- [Data Center: Aruba Fabric Composer \(56 minutes\)](#)

Data Center Networking Advanced –
Continuous Learning Path

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Learning Path Sessions – Proposed additions

400: The Data Center Point of View

Compute, Storage, and HPE Aruba Networking

This session looks at how HPE Compute, Storage, and Networking technologies integrate. A detailed explanation of what networking architectures and solutions can be deployed in support of data center will be a key discussion. Included will be a live demonstration of HPE Greenlake Central, Distributed Services Cloud Console, and Compute Ops Management, showcasing how they can be used for centralized management.

401: Troubleshooting the network pipeline

HPE Aruba Networking's data center solution is made up of several different software applications that are connected to one another. Connected in a software pipeline, so to speak. This session will explore the relationship of the HPE Aruba Fabric Composer and its third-party integrations. It will also include a focus on how to troubleshoot the connectivity between systems and expected settings.

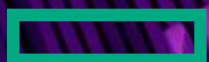
402: Customer data center designs

This session will review HPE Aruba Networking data center network designs and how customers can deploy them. From one data center to the next, requirements for data center designs can be extremely different. Workloads and applications will vary wildly. In this session, attendees will gain awareness in designing HPE Aruba Networking data center networks in support of customer requirements.

403: Deep Dive Rest Automation with the AFC

This session will be a deep dive into automating with the HPE Aruba Fabric Composer RESTful API's. This session will review how to develop a python, flask, and mongodb application that runs in docker containers. The flask app.py file will be created, and each line discussed in detail. Attendees will become knowledgeable in building python-based workflows leveraging the pyafc python binding.

Hands On Workshops



Hands On Workshops

Data Center Networking - Microsegmentation with AFC & CX 10K The Distributed Services Architecture for data center fabrics provides stateful firewall, DDoS protection, deep visibility, and other network services at the top of rack switch. This solution includes the CX 10000 Switch, Aruba Fabric Composer (AFC), and AMD Pensando Policy and Services Manager (PSM).

3 Hours

23.21



Data Center

Data Center Networking - Spine/Leaf with AFC & CX 10K The Distributed Services Architecture is well suited for seamless integration of the spine/leaf topology. The AFC includes guided workflows that walk through the day 1 configuration requirements. In this workshop the attendees will deploy the underlay network, the overlay network and dynamic endpoint groups (EPG). Policies will be created to regulate traffic between the endpoint groups in conjunction with the AMD Pensando PSM and the Data Processing Units (DPU) on the CX 10K.

3 Hours

23.33



Data Center

Proposed Data Center Workshops

HOL TE4.203 Deep Dive Telemetry with PSM and the ELK stack - HOL

This workshop will guide attendees through the configuration necessary to flow AOS-CX switch information to the AMD Pensando Policy Services Manager, and then into the ELK stack for reporting HPE Aruba Networking CX10000 switch telemetry. Attendees will visualize the switch telemetry in Kibana, an open-source application used for observability.

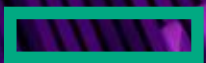
HOL TE4.204 Deep Dive Automation with AFC - HOL

This workshop will dive into automating with the HPE Aruba Fabric Composer RESTful API's. This session will discuss how to develop a python, flask, and mongodb application that runs in docker containers. The flask app.py file will be created, and each line discussed in detail. Attendees will become knowledgeable in building python-based workflows leveraging the pyafc python binding.

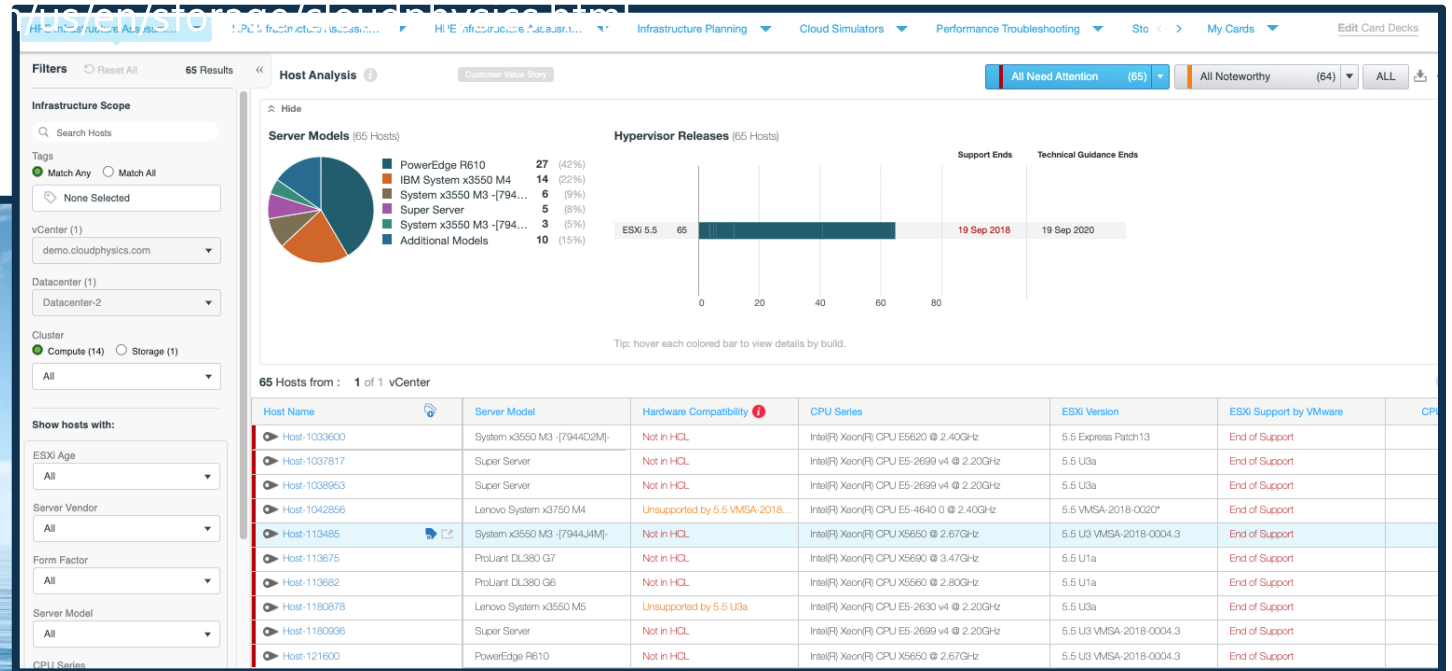
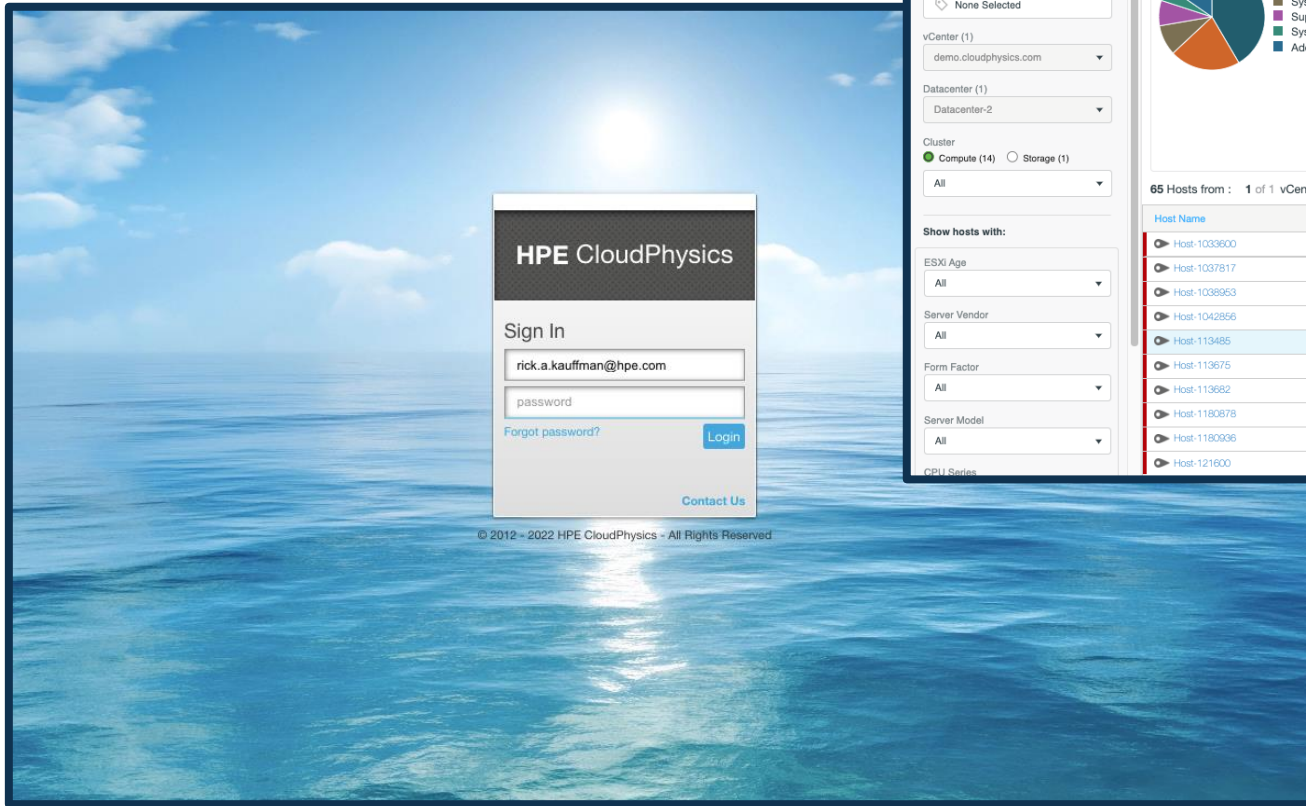
HOL TE4.205 Deep Dive NAT and IPSec with AFC/PSM - HOL

This workshop will demonstrate how to use a pair of VSX AOS-CX 10K switches and deploy them as a border leaf in support of Network Address Translation and IPsec connections. This is only possible because of the Data Processing Units (DPU) integrated into the CX-10K switch hardware are programmable. This workshop will focus on how to get data communications working between two remote data centers.

HPE Cloud Physics



HPE Cloud Physics



For Training Purposes Only



Cloud Physics Demo



For Training Purposes Only

Questions



Reach out to your local Channel SE!


Or

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Mobile (508) 826-7149
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ARUBA CHANNEL ENABLEMENT WORKSHOPS

CX-10000 (10K) / Aruba Fabric Composer



OVERVIEW

The **Aruba CX 10000 (10K)** is an exciting and unique addition to the Aruba switching portfolio developed in partnership with AMD/Pensando. In this workshop, students will leverage **Aruba Fabric Composer (AFC)** to configure a simple Layer 3 datacenter fabric with **Ethernet VPN (EVPN) – Virtual Extensible LAN (VXLAN)** and **Symmetric Integrated Routing and Bridging (IRB)**. Students will also learn about the integration between VMware® vSphere and AMD's® Pensando® **Policy Service Manager (PSM)**. Finally, students will get to create, deploy, and monitor switch traffic flow policies, showcasing the power of the 10K to function as a L4-L7 stateful firewall while governing east-west traffic in a datacenter network.

MAIN TOPICS

Aruba Fabric Composer

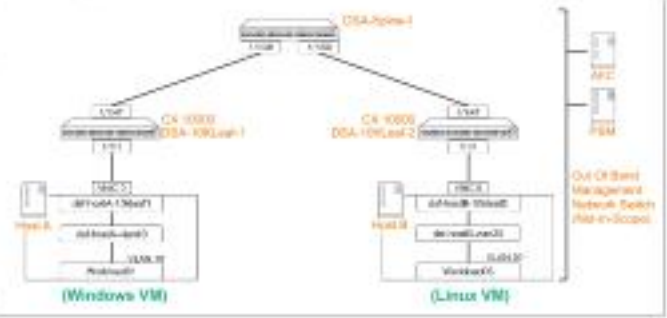
- Switch Discovery
- Fabric Creation / Switch Assignment
- Layer 3 Leaf-Spine Fabric
- Configure Underlay (OSPF)
- Configure Overlay (IBGP)
- Configure Datacenter EVPN

Distributed Services Integration

- vSphere Integration (pre-staged)
- AMD/Pensando Policy Service Manager (PSM)

Policy Management & Testing

- Traffic Flow Redirection



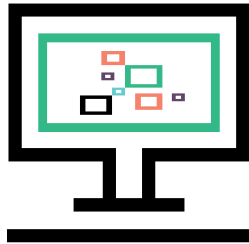
Partner Resources

Partner Portals



Airheads Community

[\(Click Here\)](#)



Arubapedia for Partners

[\(Click Here\)](#)



Partner Ready for Networking portal

[\(Click Here\)](#)

Live Support



Channel SEs (CSEs)

Regional channel support

Partner Technical Webinar Series

New HPE Aruba Next-Gen Data Center Solutions

Session 1: Data Center: HPE GreenLake

Monday, March 18th at 9 AM PT / 12 PM ET

Session 2: Data Center: FY24 DCN Overview and Road Ahead

Monday, April 15th at 9 AM PT / 12 PM ET

Session 3: Data Center: Private Cloud Business Addition

Monday, June 5th at 9 AM PT / 12 PM ET

([Click here](#)) to view session recordings for the webinar series



**Hewlett Packard
Enterprise**

Thank you.

Rick Kauffman – Global TME - Technical Enablement

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[GreenLake.com](https://www.greenlake.com) for more information on the Cloud that comes to YOU!

[Guided Tour of GL PCE @ hpe.com/greenlake/demos](https://www.hpe.com/greenlake/demos)

