

Transform Your IT Landscape with VMware Cloud Foundation

VMware NSX and vDefend Firewall

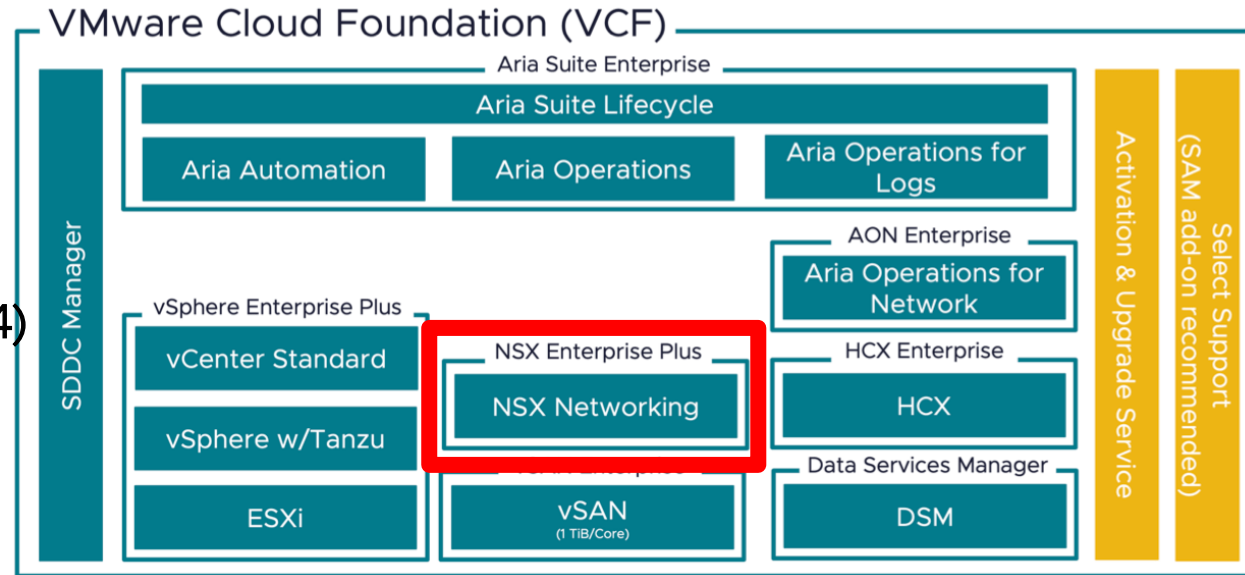
Nicholas Duff
PreSales Engineer | Carahsoft

8/7/2024

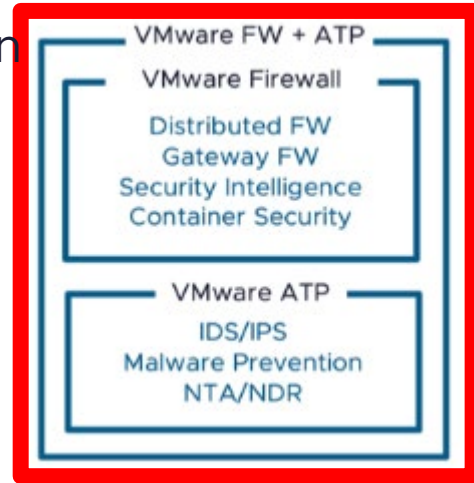
Transform Your IT Landscape with VMware Cloud Foundation Series

Today's Session: Integrated Infrastructure Management with SDDC Manager

- SDDC Manager (7/31/2024)
- NSX Network Virtualization (8/7/2024)
- HCX Enterprise (8/14/2024)
- Aria Suite Enterprise (8/21/2024)
- Tanzu Platform (8/28/2024)



Add-On



Agenda

1. Challenges IT Infrastructure Teams Face
2. VMware Cloud Foundation Overview
3. Application and Networking Security
4. Understanding Attack Vectors
5. vDefend Security Architecture
6. Demo

Challenges Faced by IT Infrastructure Teams Today

Time



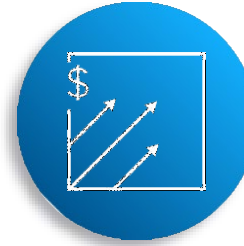
“Everything takes too long”

Complexity



“It’s hard to maintain and make changes”

Cost



“Managing infrastructure is expensive”

Compliance



“Compliance limits flexibility”

Why?



Tickets and team hand offs
Manual configuration
Repetition of tasks



Lack of standardization
Upgrades and patching
Change windows



Limited automation
Poor utilization
Cloud silos add more cost



Bespoke security
Auditing
Balancing flexibility

VMware Cloud Foundation

A quick glance

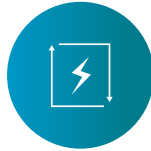
Advanced Add-on Offerings



Application Networking
and Security



Advanced
Tanzu Services



Ransomware and
Disaster Recovery



Private
AI Services

IaaS Consumption Surface

Automations and Operations



Compute (vSphere)



Storage (vSAN)



Network (NSX)

Customer
Managed Software
On-Premises

Provider
Managed Software
Public and Partner Cloud



Application Networking & Security

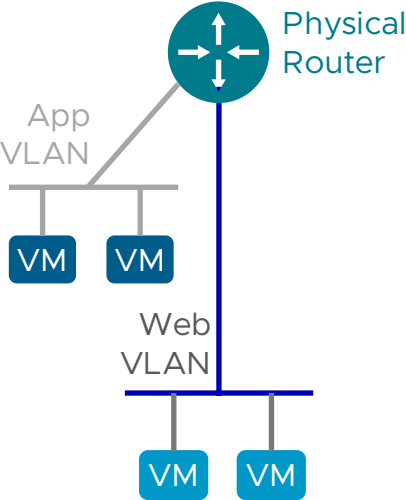
vDefend



Simplify the Adoption of Virtual Networking

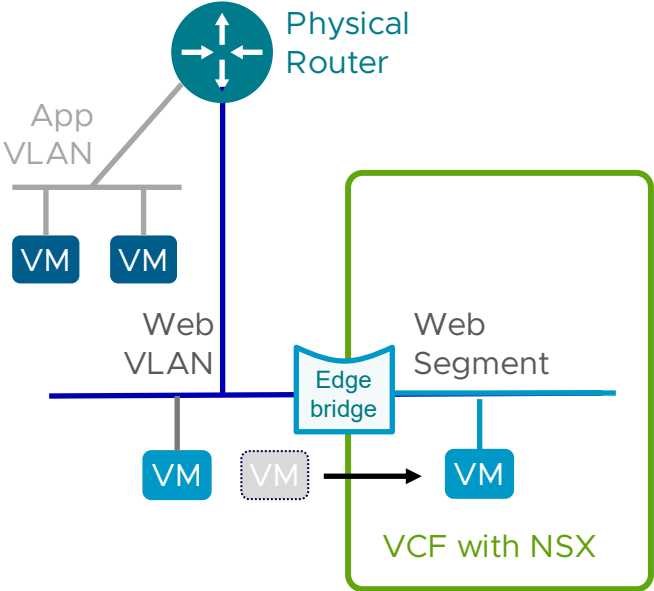
Onboarding VLAN-backed Workloads to NSX Virtual Networks

Initial Infrastructure



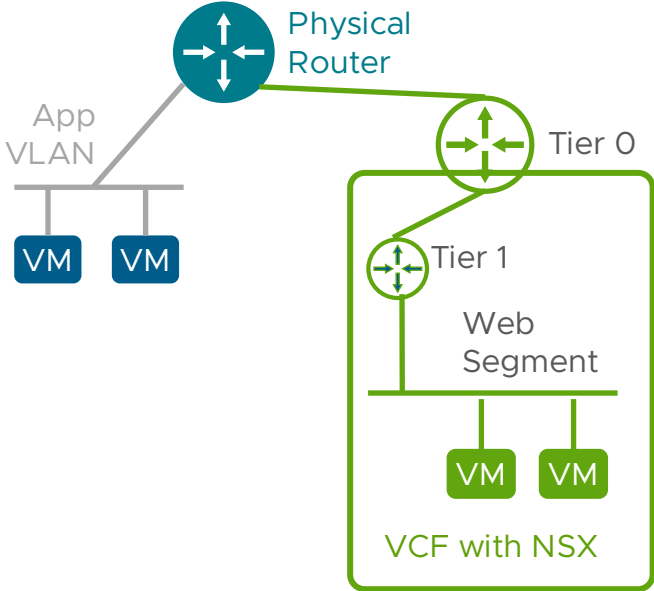
VLAN-backed DVPGs

On-boarding VLAN to Virtual



Easy On-boarding from NSX Manager

NSX Virtual Networking (SDN)



Web tier on-boarded to NSX

Application Networking and Security (ANS) Division – Product Portfolio

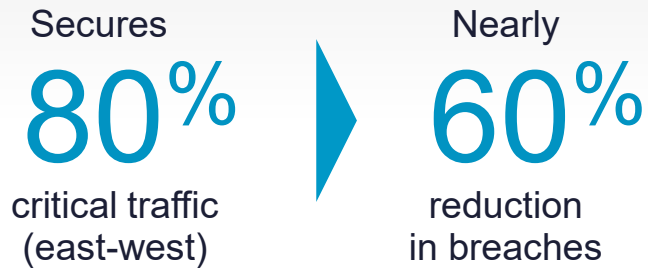
Customer Challenges We Address

Secure Application Workloads

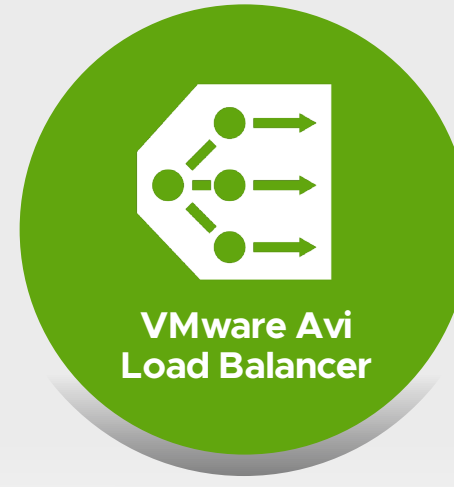


VMware vDefend
Lateral
Security

Zero Trust Lateral Security Solution

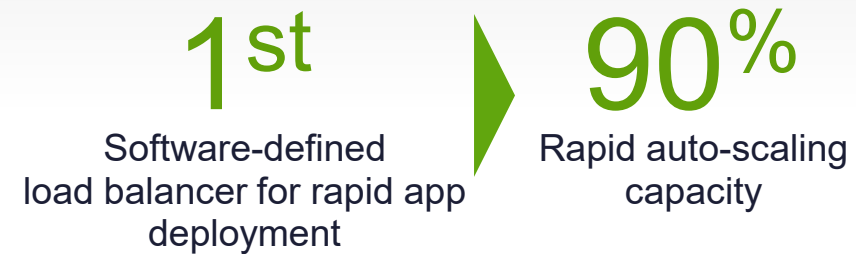


Load Balance at App Speed



VMware Avi
Load Balancer

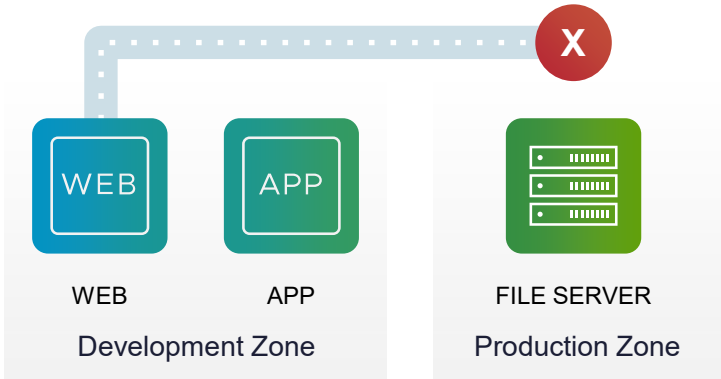
Industry's Most Versatile Load Balancer



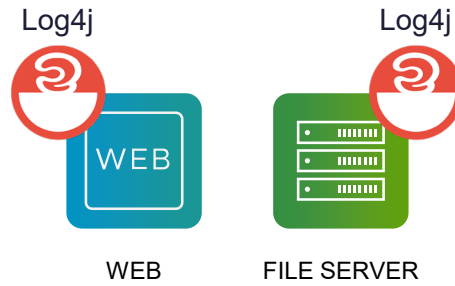
Understanding Attack Vectors in Modern Infrastructure

ADD-ON ONLY

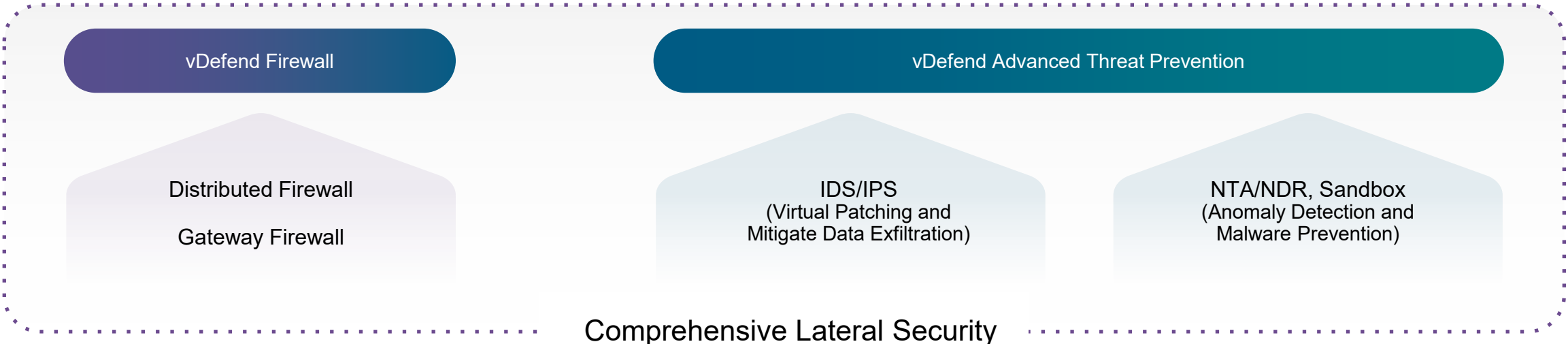
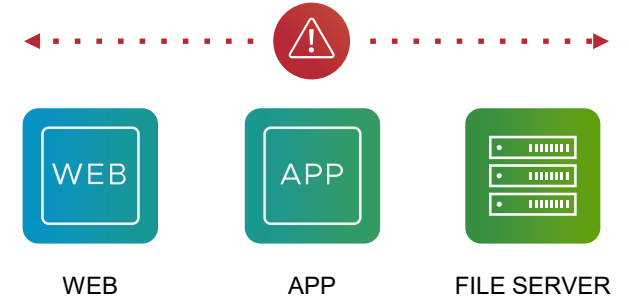
Unauthorized Access



Software Vulnerability

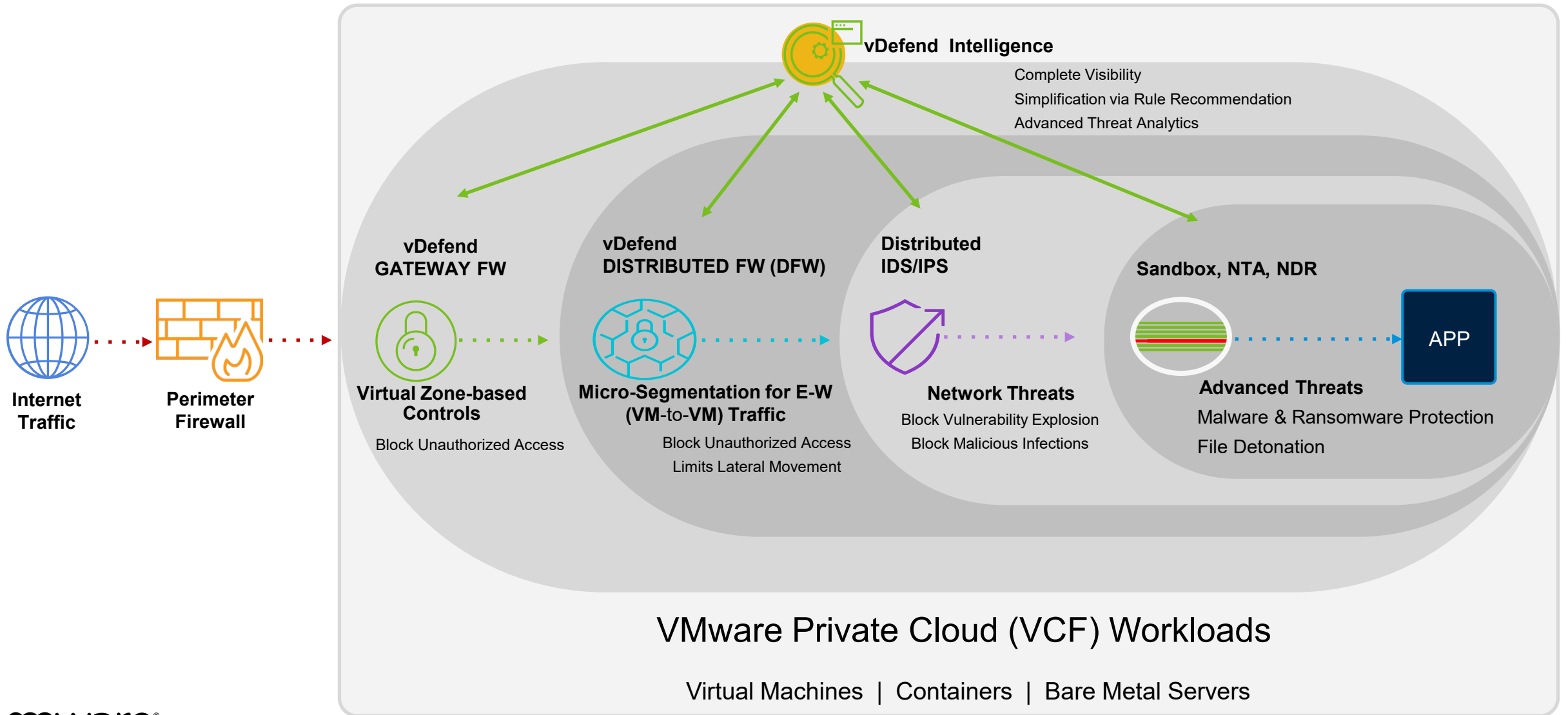


Lateral Attack Movement



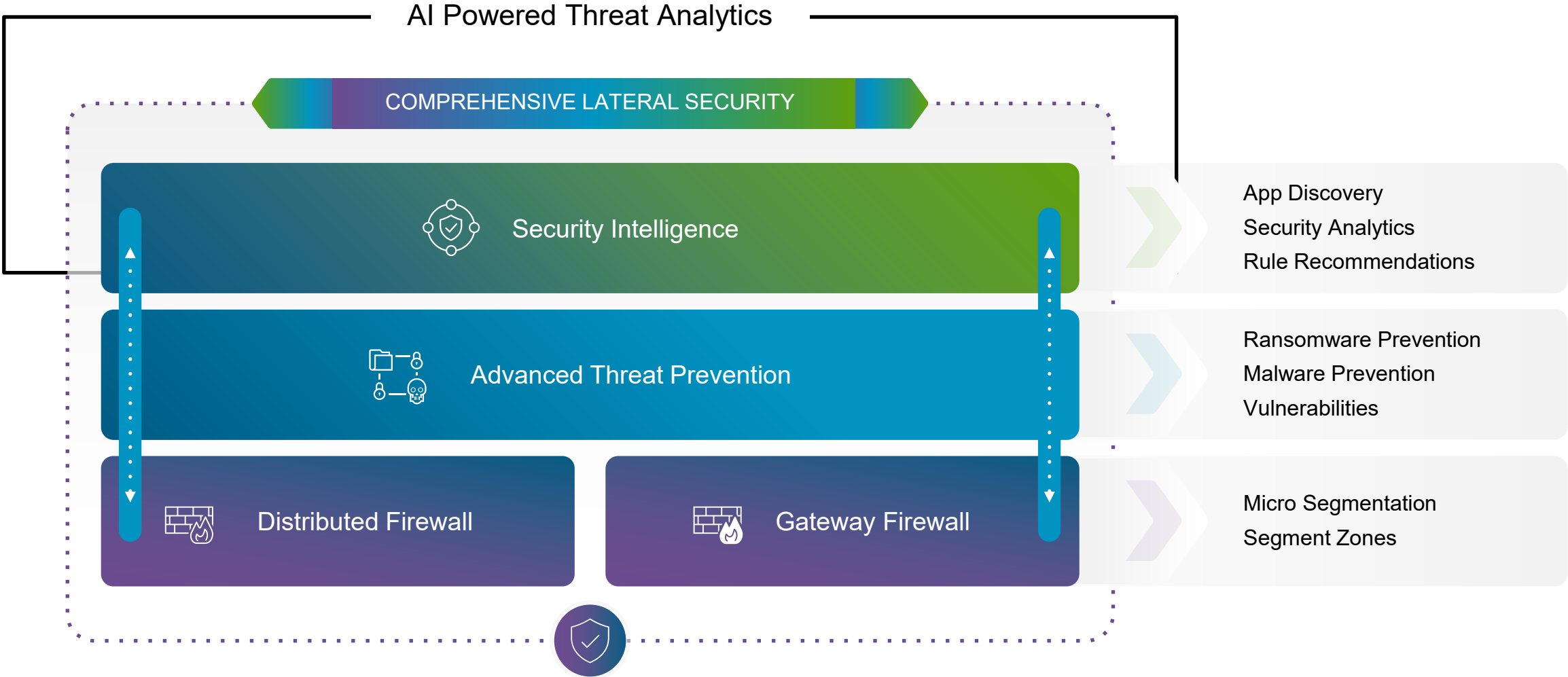
Multi-layer Defense-in-Depth Protection Against Malware and Ransomware

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vDefend Security Architecture

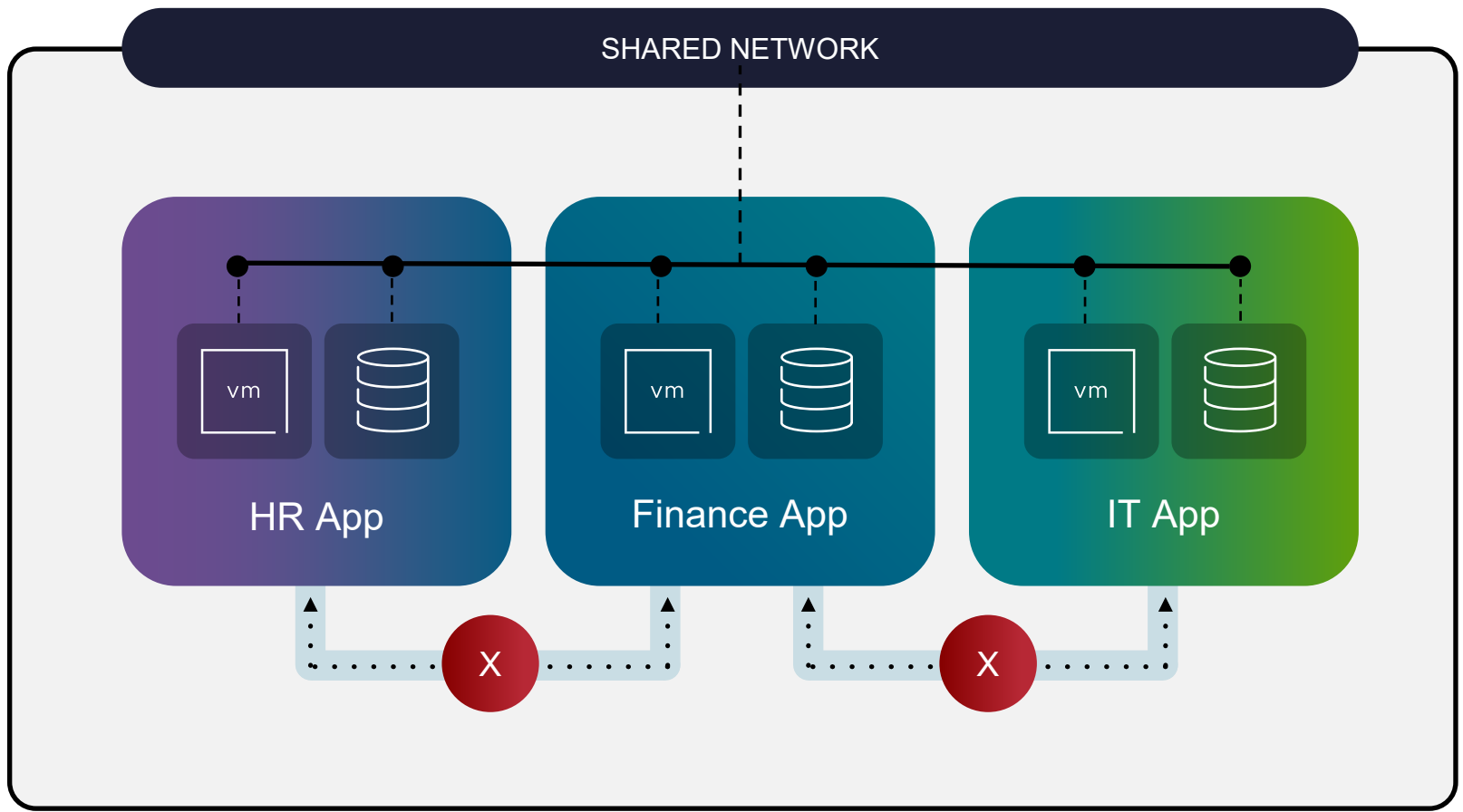
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vDefend Distributed Firewall

Segmentation using L2-L7 Capabilities

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Key Capabilities

Stateful Layer 4
Access Controls

Layer 7 Controls
with AppID

Identity Firewall
with UserID

Support for VM, Container
and Bare Metal workloads

Typical Advanced Persistent Threat (APT) Scenario

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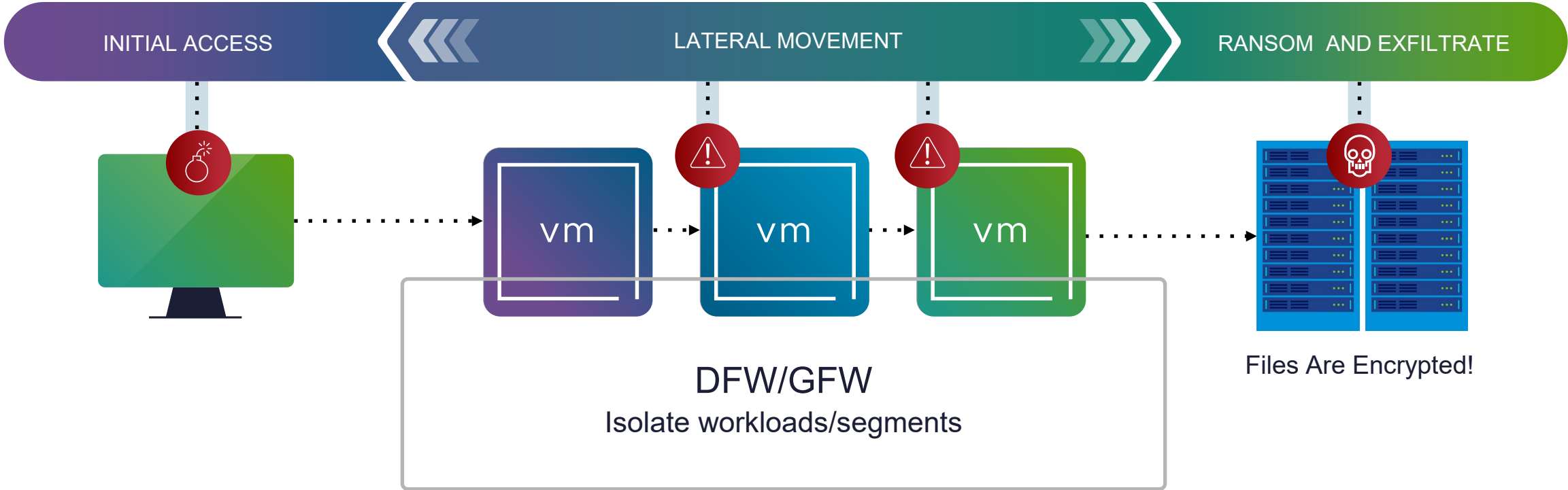
Sandbox
Prevent files
downloads



NTA/NDR
Alert on anomalous
behavior



IDS/IPS
Alert on command
and control



VMware Cloud Foundation Training Opportunity

2-Day Class – Instructor Led

Date: August 22-23 & September 9-10

Number of Seats: 16 per class

Audience: Virtual Admins, IT Managers.

- Must have hands on experience with VMware.

Lecture:

Module 1: VMware Cloud Foundation Overview

Module 2: Operate VMware Cloud Foundation with NSX

Module 3: Operate vSphere with Tanzu in VMware Cloud Foundation

Module 4: Operate VMware Cloud Foundation Storage

Module 5: VMware HCX with VMware Cloud Foundation

Hands-On Labs:

Lab 1: (Simulation) Deploying VMware Cloud Foundation

Lab 2: VMware Cloud Foundation Advanced Security with NSX

Lab 3: Operate VMware Cloud Foundation with Tanzu

Lab 4: Operate VMware Cloud Foundation with HCI

Lab 5: Monitoring VMware Cloud Foundation with Aria Suite

Reach out to Davis Falk (davis.falk@carahsoft.com) to

Register



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Hands on Experience with VMware Cloud Foundation

Reduce complexity with consistent IT infrastructure and operations, mitigating operational cost and risk with VMware Cloud Foundation.

Register Now

August 22 - 23, 2024
10:00am – 6:00pm ET

Hands on Experience with VMware Cloud Foundation

Thursday, August 22, 2024 -
Friday, August 23, 2024

10:00am - 6:00pm ET

Online

Register Now

[Join our complimentary](#) advanced end-user workshop to learn and interact with VMware Cloud Foundation and see the benefits of this solution firsthand. Learn how your organization can effectively and efficiently modernize both applications and the underlying infrastructure with VMware Cloud Foundation.

[During this 2-day hands on technical workshop](#), you will learn about:

- The VMware Cloud Foundation deployment process
- The VMware Cloud Foundation Tanzu deployment process
- How VMware Cloud Foundation protects modern apps with NSX
- Advanced infrastructure and overlay network monitoring technologies
- How to operate and migrate workloads in a multi cloud environment
- VMware HCX for seamless workload migration

Don't wait, spots are limited - [register today](#) to learn more and take meaningful steps towards an integrated and future-ready hybrid cloud platform.





Thank You