

# WestCon Cloud and Datacenter Conference

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# AGENDA

- 1. State of Security today**
- 2. Security by VMware**
- 3. What's next?**

# What are organizations really investing in?

Reputable  
Performant  
Specialized

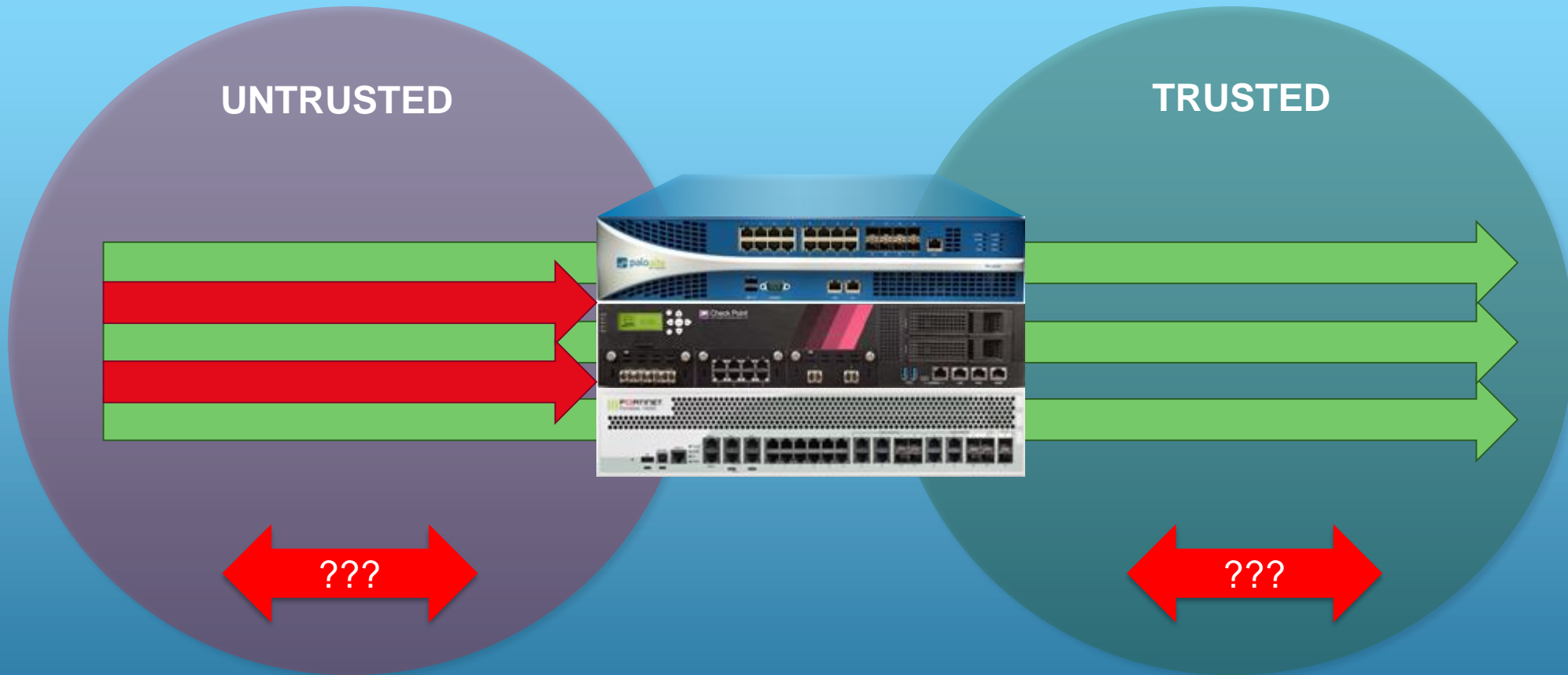


Fixed PoV  
No Auto-Scale  
Context

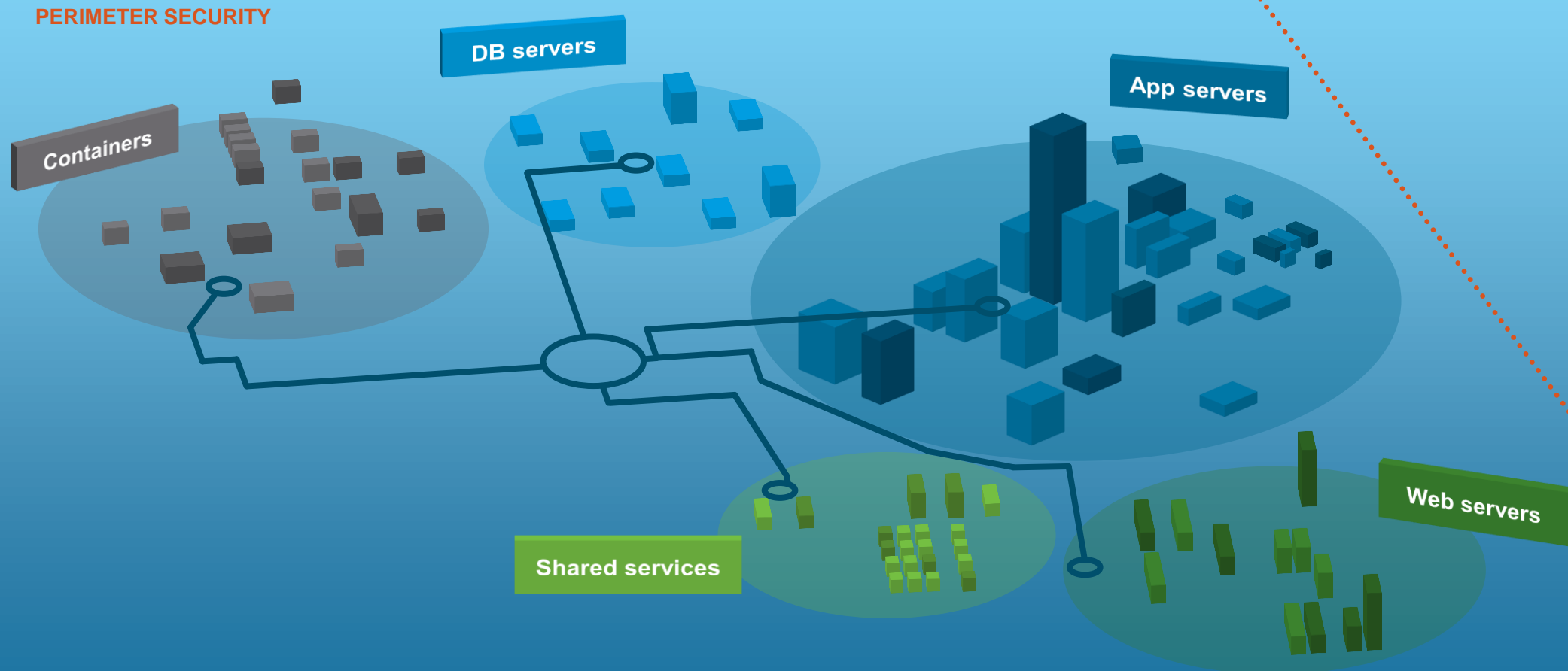
Pro's

Con's

# Inherited Capabilities of Network Security Devices



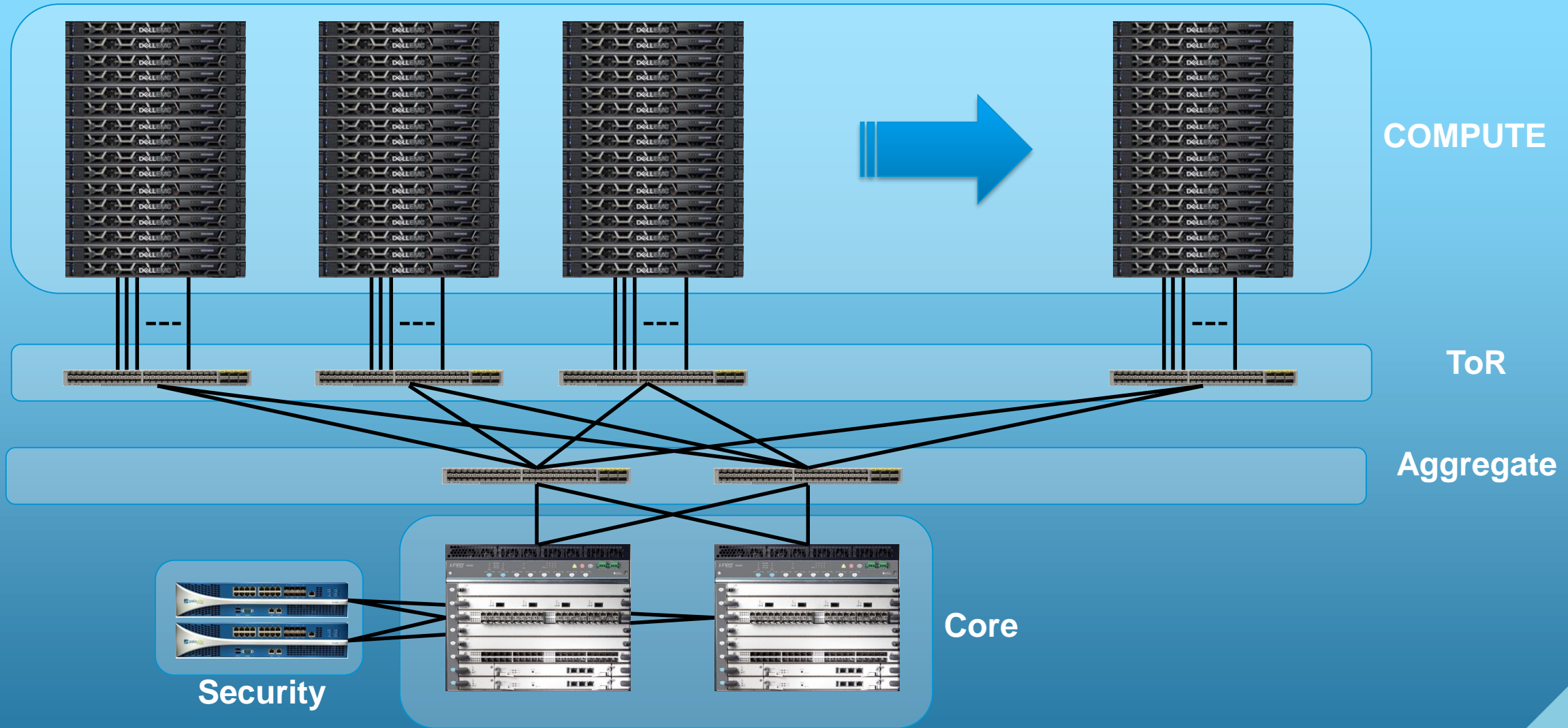
# The Application is a Network



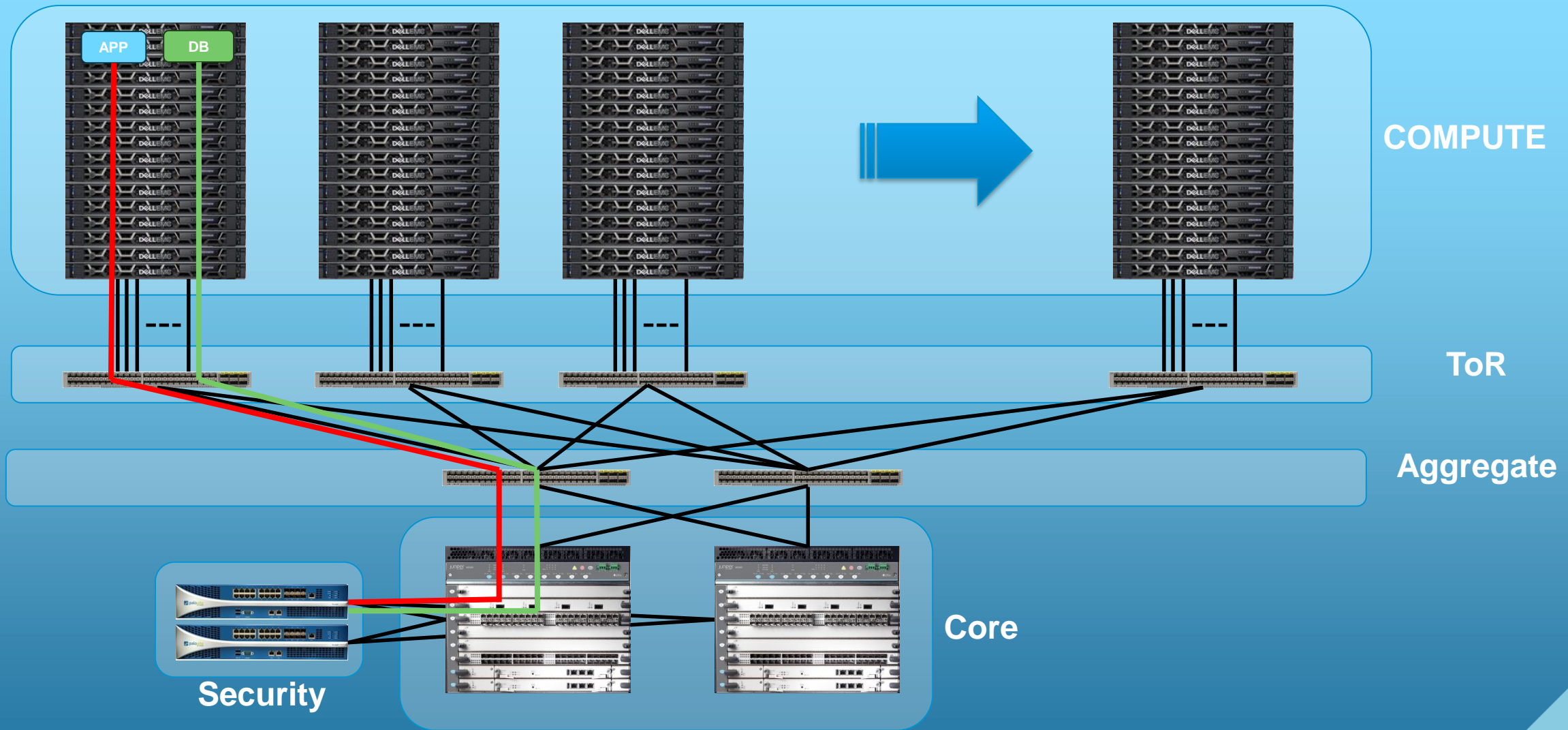
Which workloads benefit from traditional security?

**85%+** is virtualized and growing

# How are DataCenters build?



# How do VMs communicate?





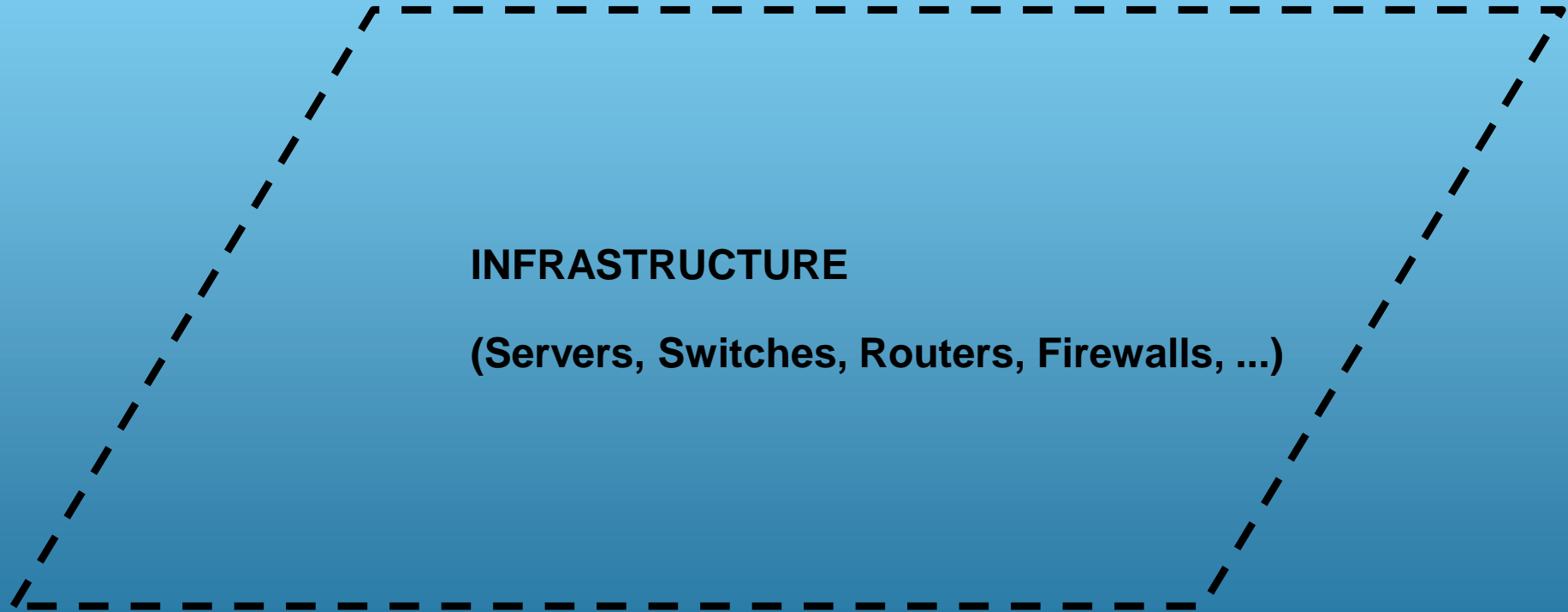
# AGENDA

1. State of Security today

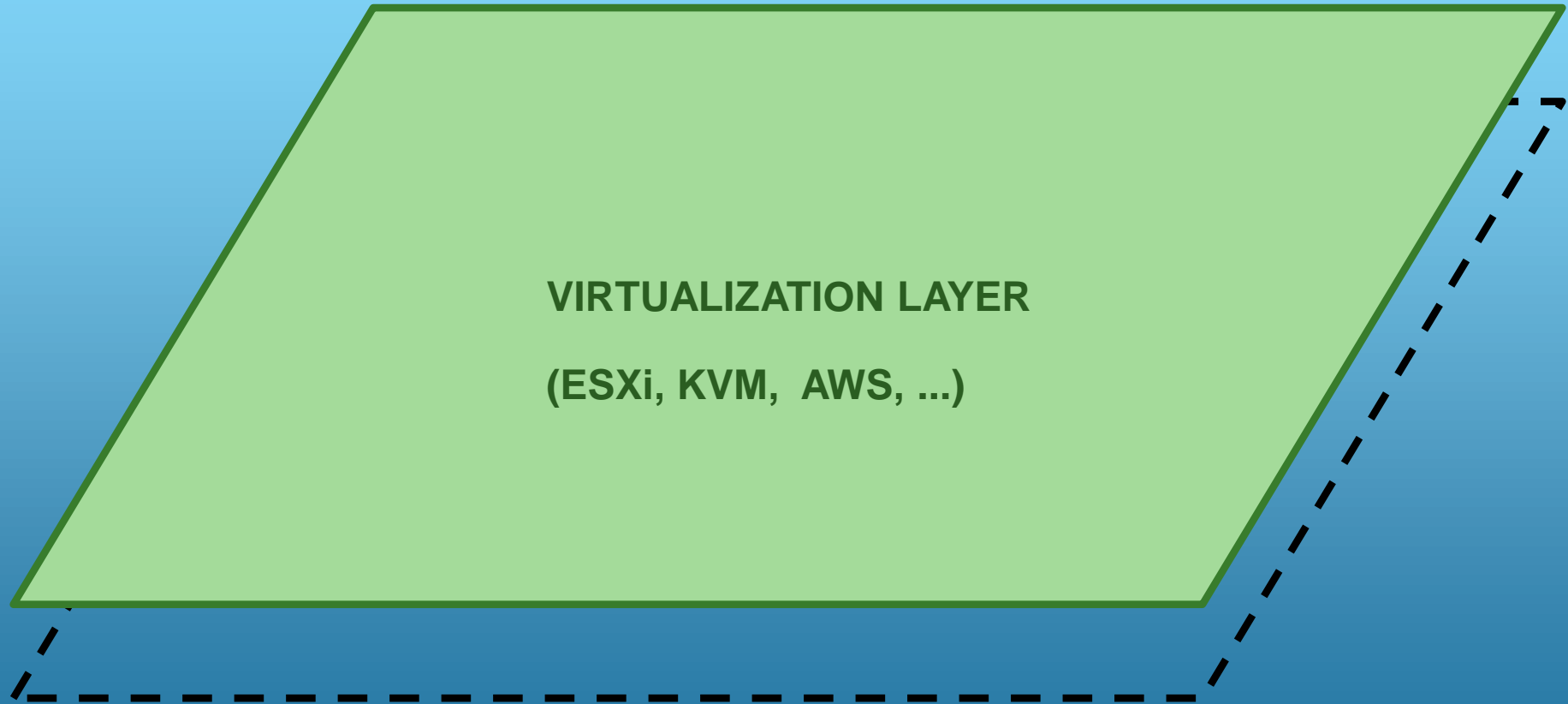
**2. Security by VMware**

3. What's next?

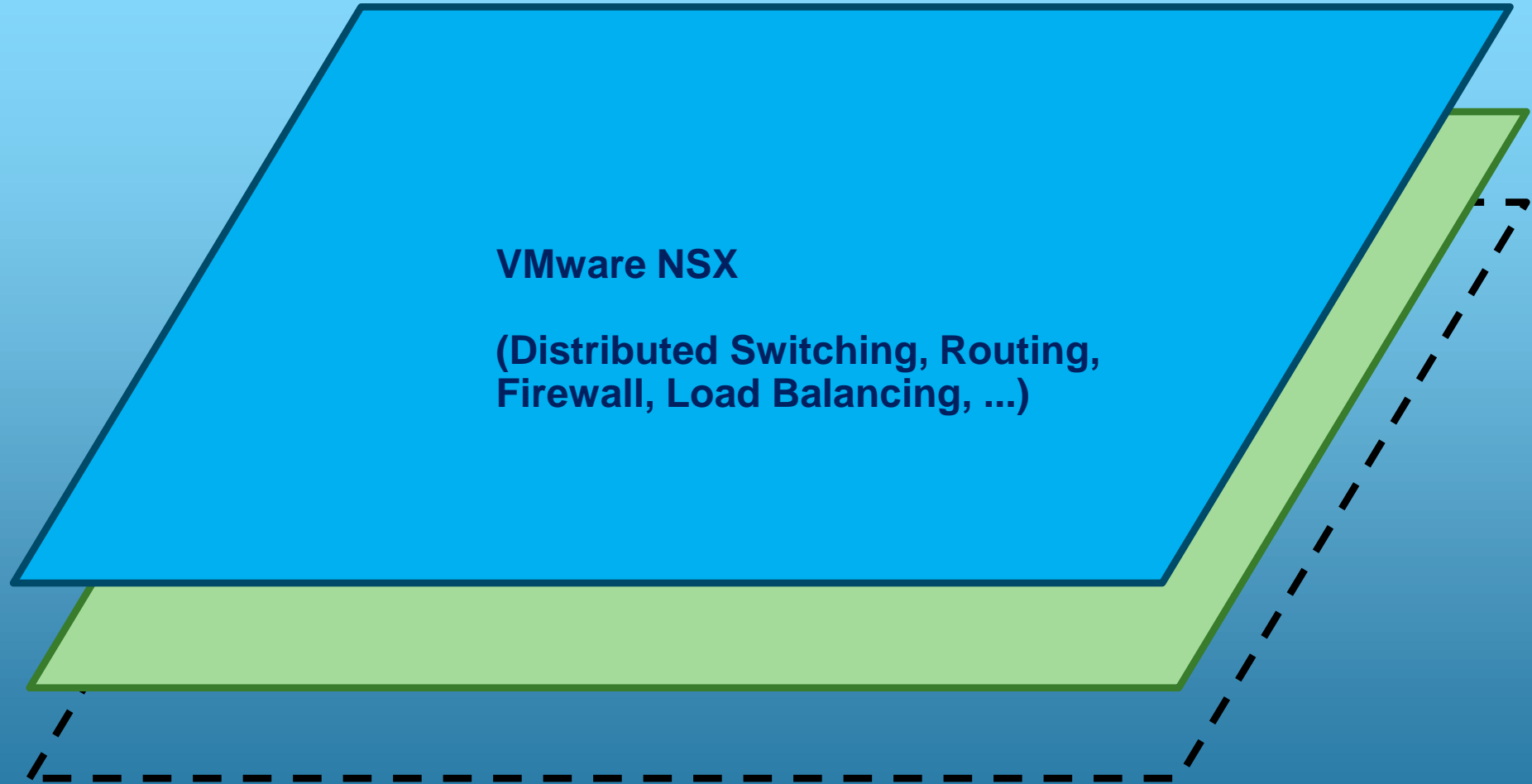
# Security Virtualization – Infrastructure Layer



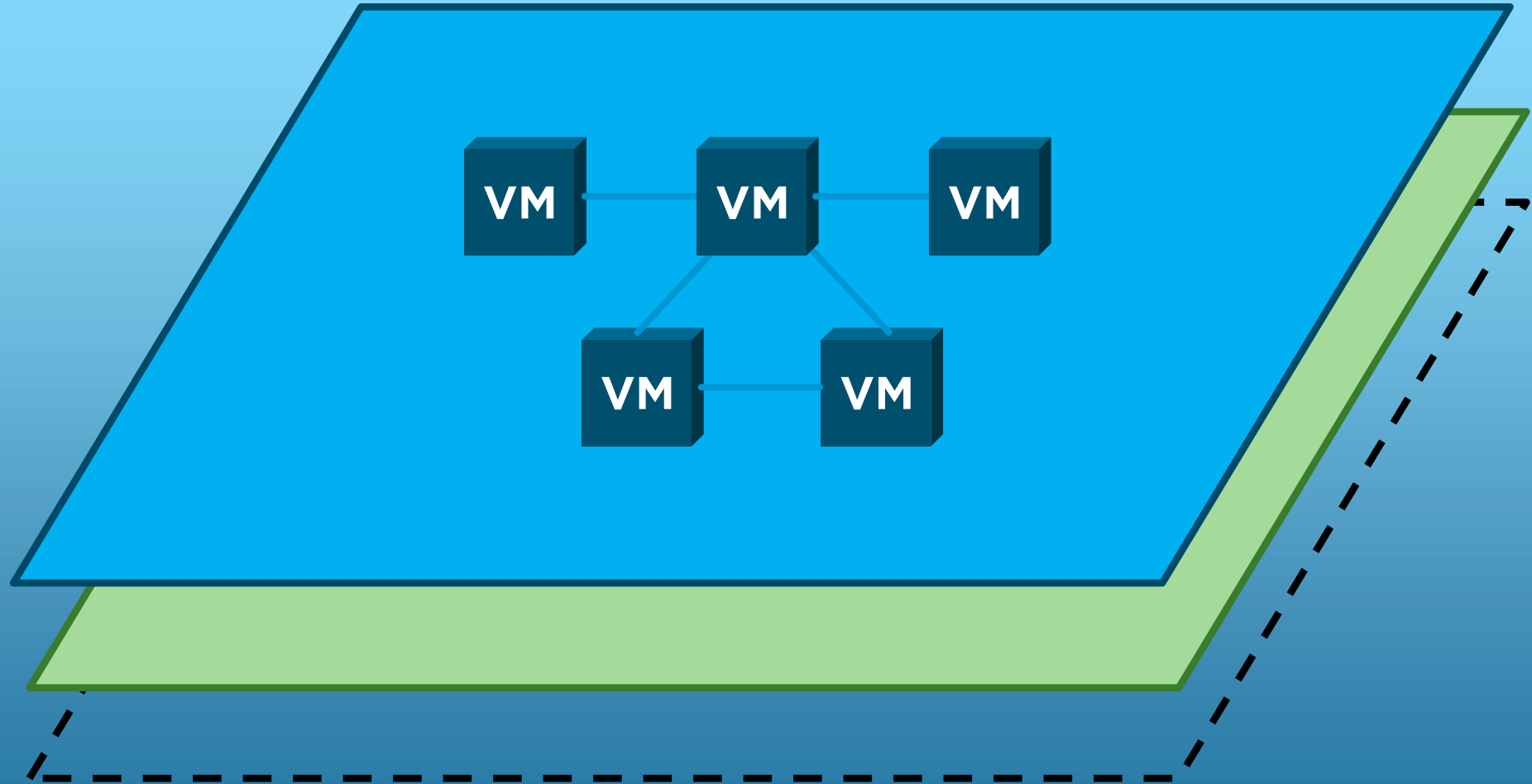
# Security Virtualization – Virtualization Layer



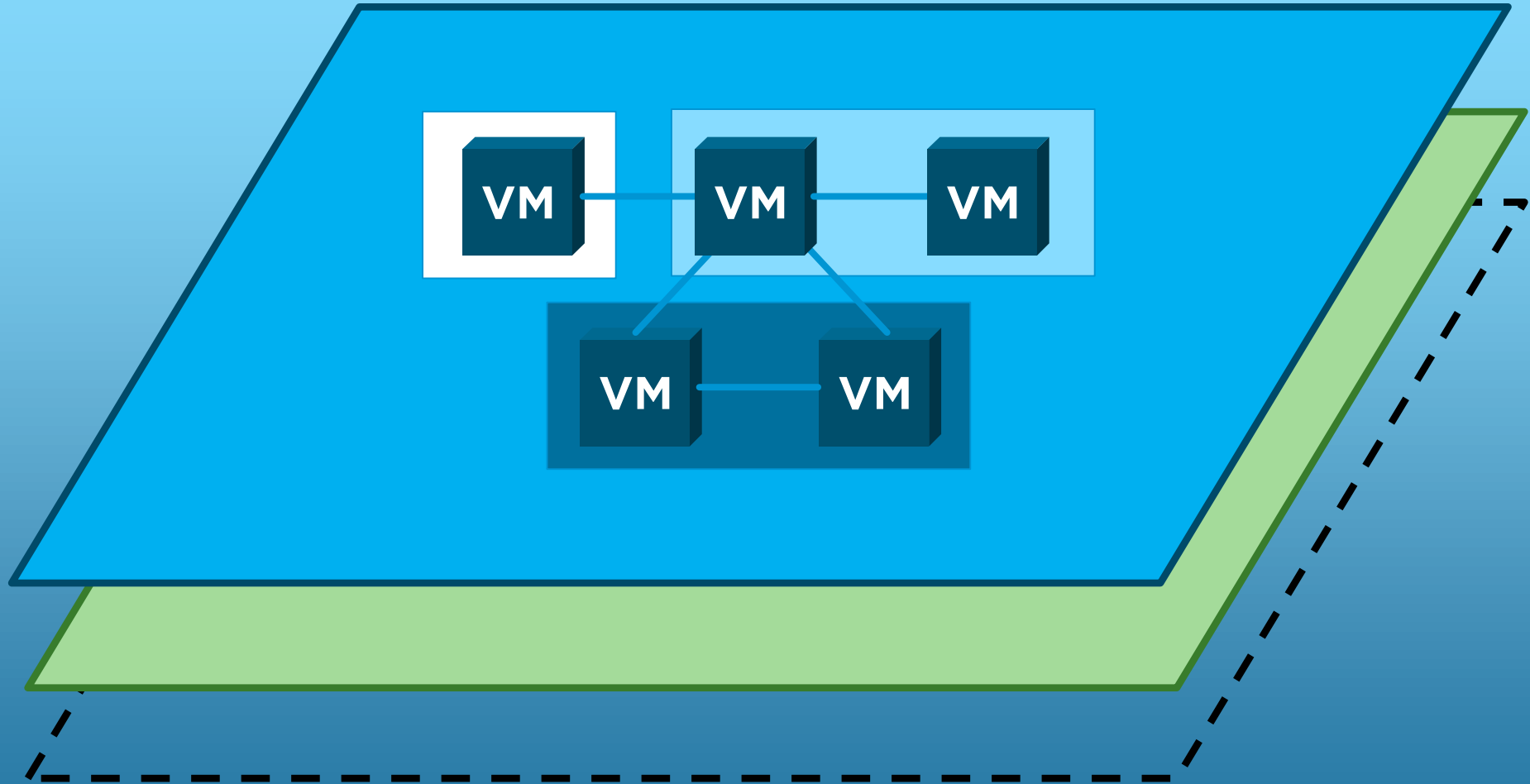
# Security Virtualization – Network and Security Layer



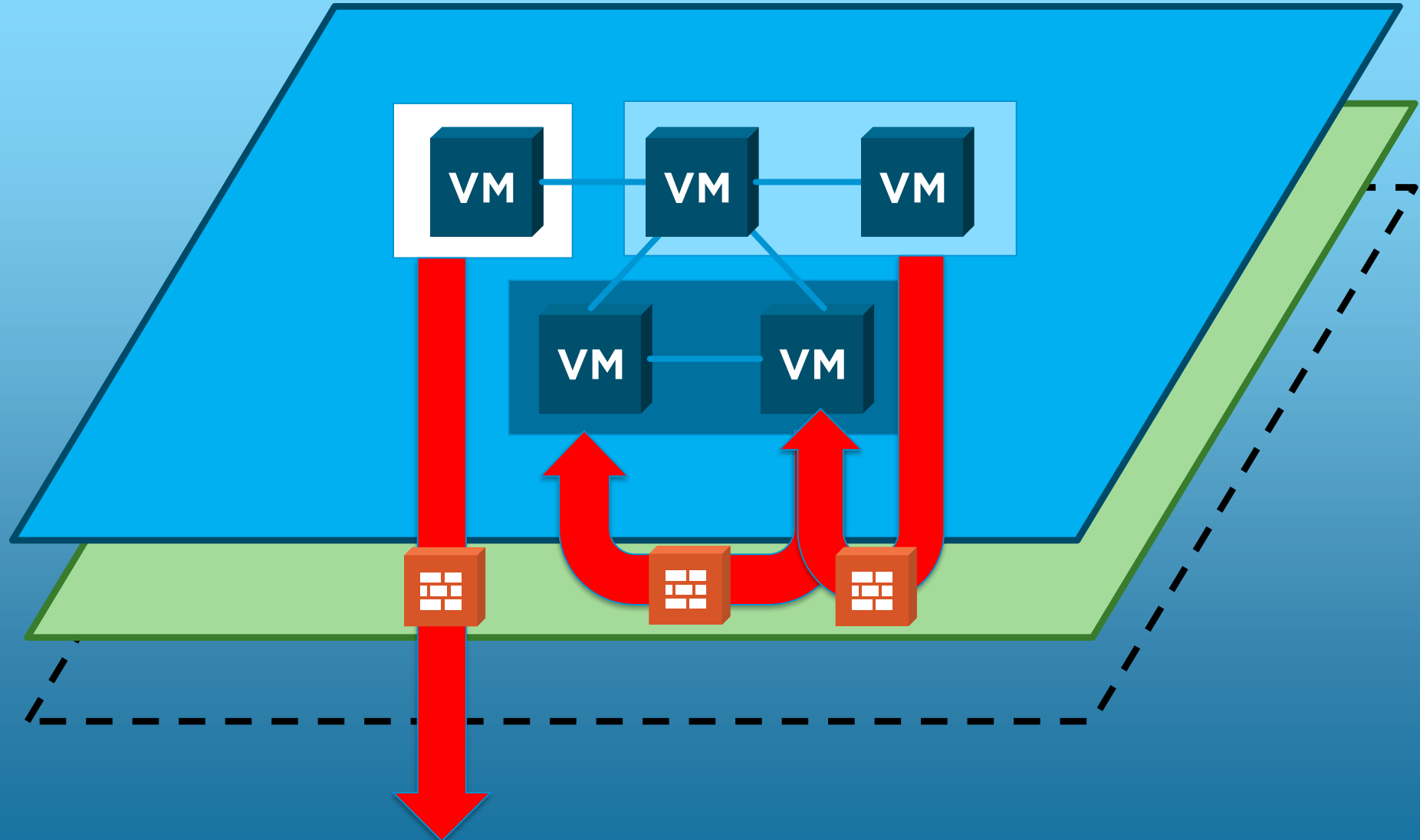
# Security Virtualization – Application Layer



# Security Virtualization – Security Independent of Infrastructure



# Security Virtualization – Security Independent of Infrastructure



# Security Virtualization – Benefits

Unlimited scale

“Zero-Trust” approach

Context-Aware policies

Increased asset utilization

Simplified Management

Rapid Deployment/Change of applications

Portability of Applications

## Software Defined Security

Forklift upgrades

Zone-based approach

App/User-aware policies

Ground-up approach

Multi-Vendor Managements

Waiting on the Security Team

Only as far as the span of the appliance

## Hardware Defined Security



# AGENDA

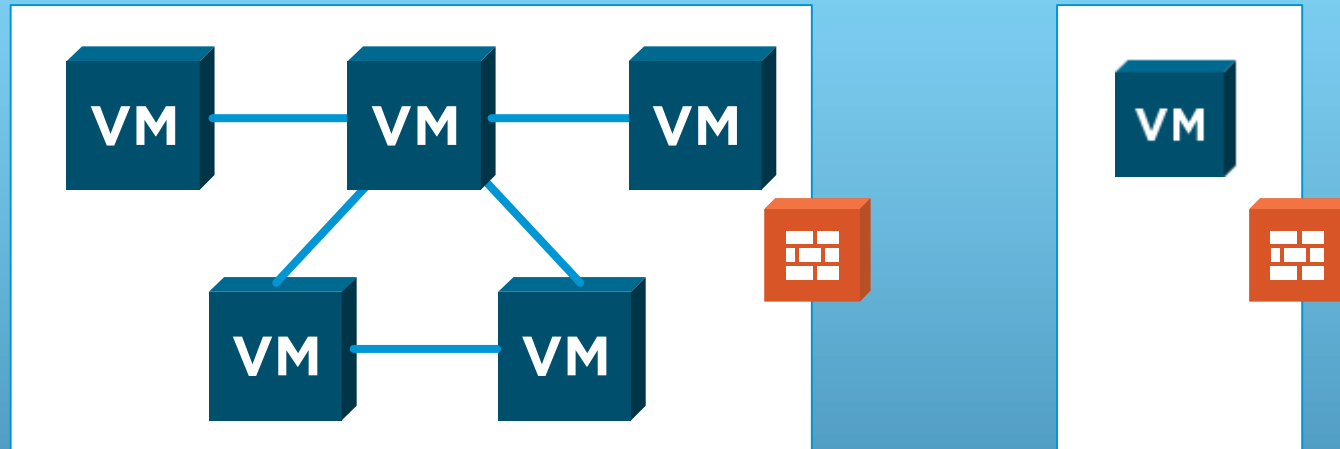
1. State of Security today

2. Security by VMware

**3. What's next?**

# Security Virtualization – “But it’s only a firewall...”

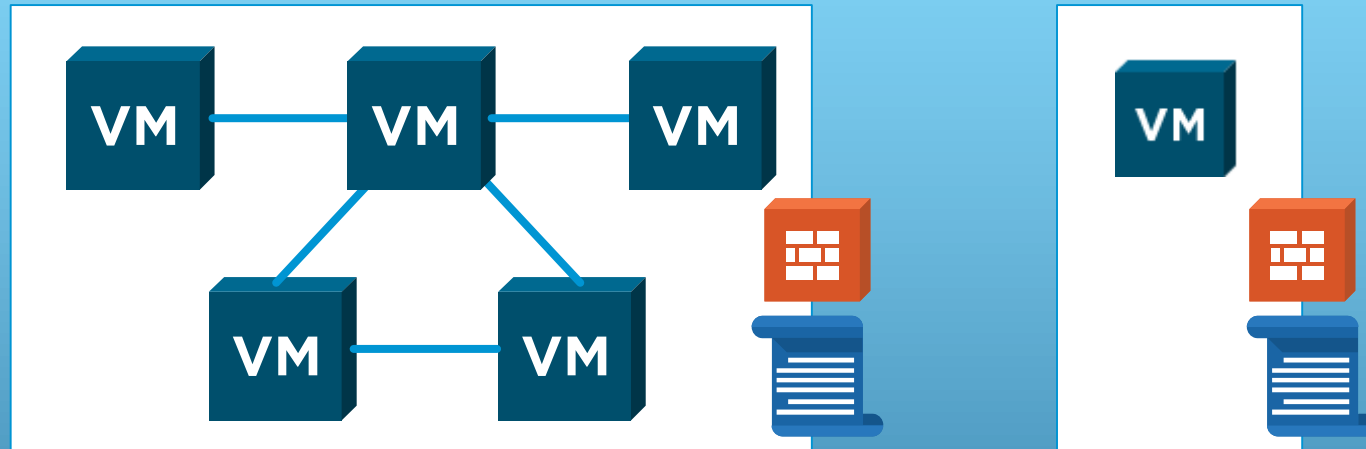
Modern Datacenters require Next Generation FireWall (NGFW) protection



**VMware NSX provides the Distributed Firewall**

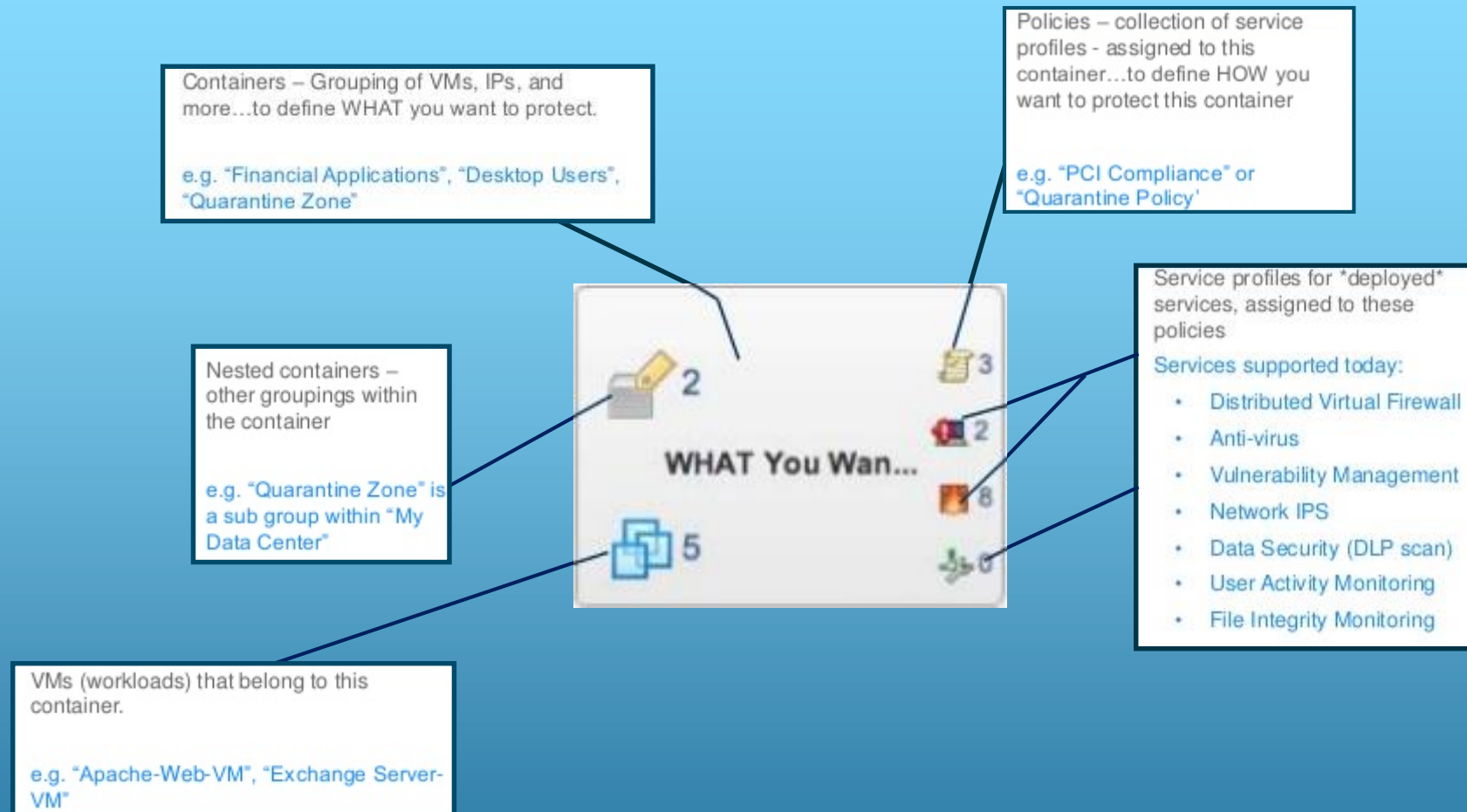
# Security Virtualization – “But it’s only a firewall...”

Modern Datacenters require Next Generation FireWall (NGFW) protection



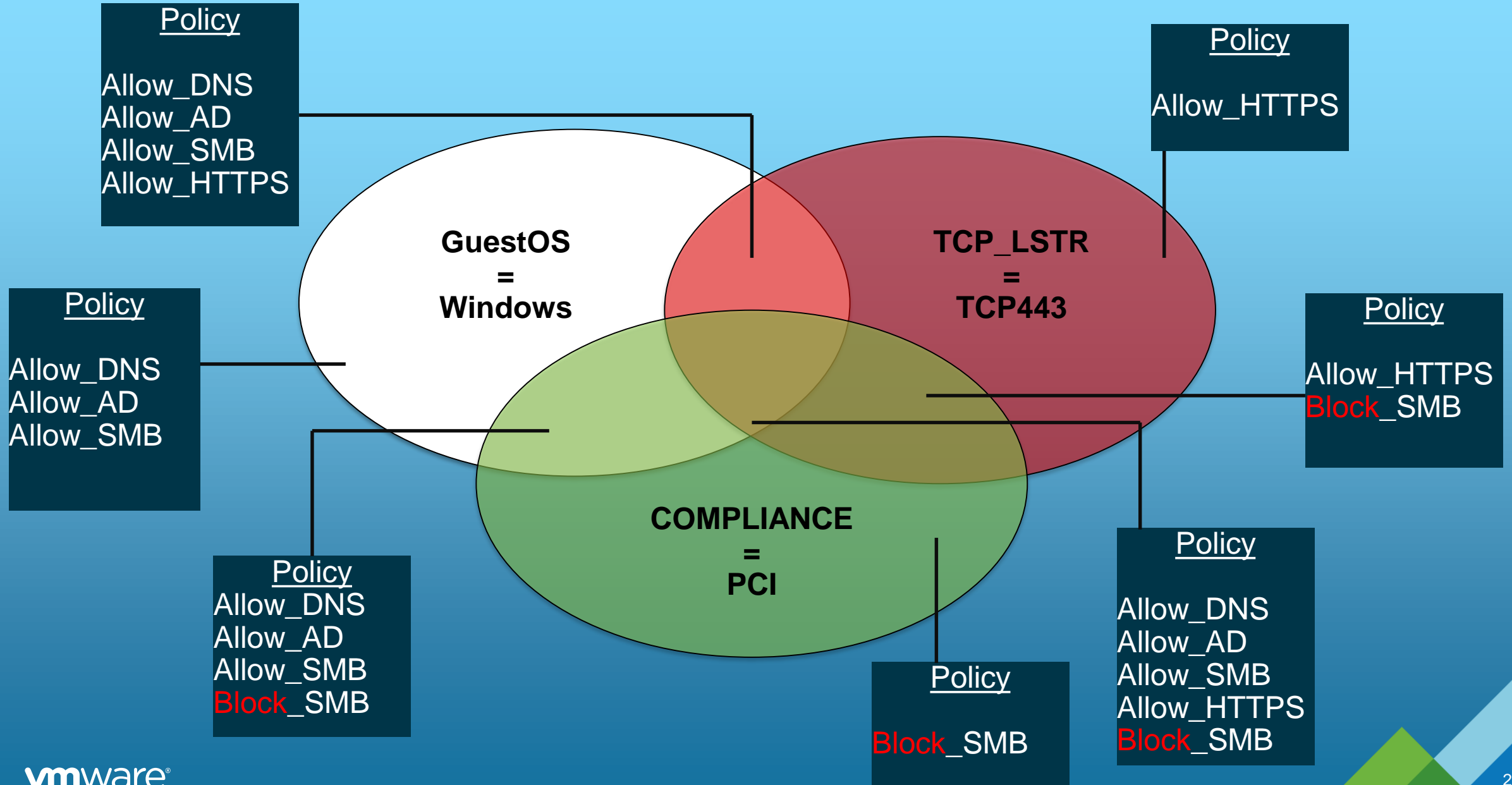
VMware NSX also provides the **platform** for 3rd party Layer7 inspection

# Security Virtualization – Introducing Service Composer



Define 'what' you want protected, define 'how' you want to protect it

# Security Virtualization – The ‘Venn’ Diagram



# Security Virtualization – Rule Creation with ARM

**Flow Monitoring**

Dashboard Details By Service Live Flow Configuration **Application Rule Manager**

NSX Manager: 10.192.73.191 (Role: Unknown) ▾

Session: test ▾ Source: 8 Status: **Analysis Completed** Delete Session

**View Flows** Firewall rules

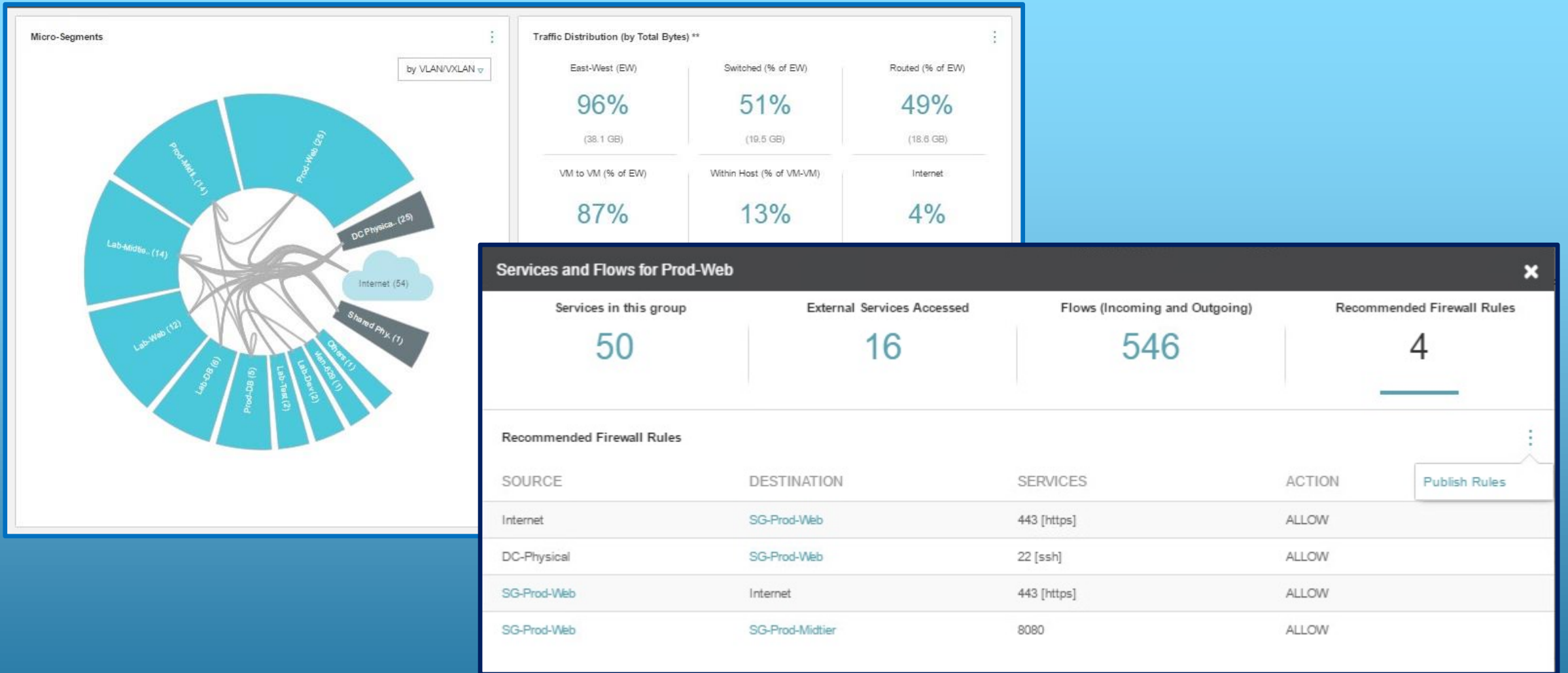
⚙️ Actions Processed View ▾

Direction	Source	Destination	Service	1 ▲
INTRA	Desktops	Active Directory	SAP Exchange Groupware Connector (DCOM)	▲
INTRA	Desktops	Active Directory	LDAP	⋮
INTRA	Desktops	Active Directory	KERBEROS	⋮
INTRA	Desktops	Active Directory	Oracle Internet Directory(non-SSL)	
INTRA	Desktops	Active Directory	SMB	
OUT	Desktops	DNS	DNS-UDP	
OUT	Desktops	DNS	DNS-UDP	
INTRA	Desktops	Active Directory	DNS-UDP	

22 items

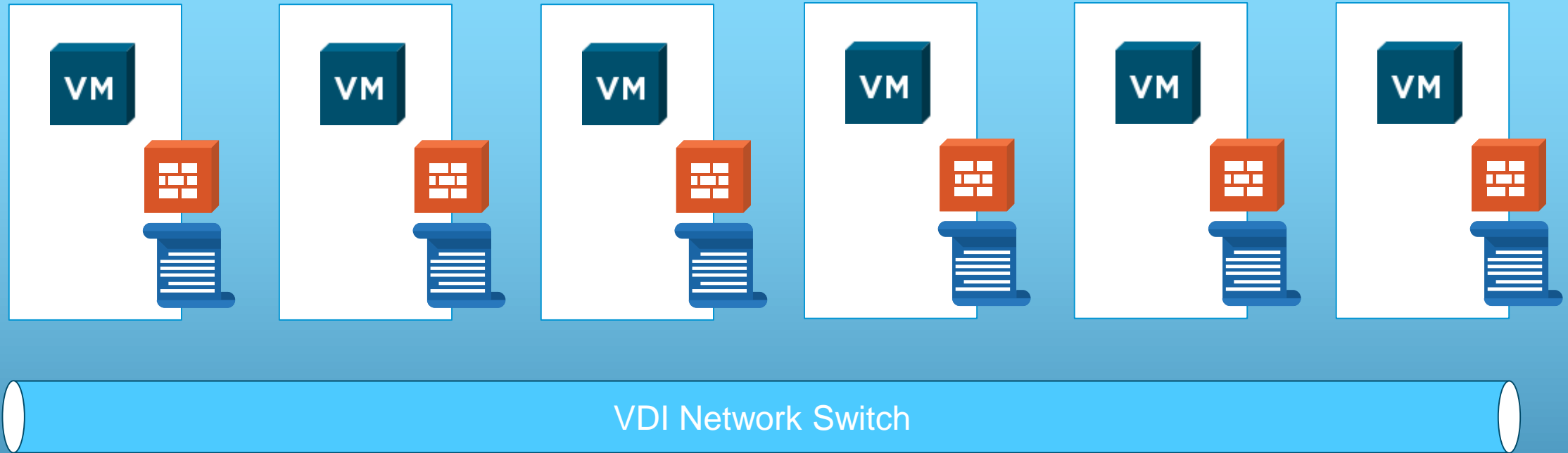
**Create Firewall Rule**  
**Hide Records**

# Security Virtualization – Rule Creation with vRNI



vRealize Network Insight: <https://www.vmware.com/products/vrealize-network-insight.html>

# Security Virtualization – Virtual Desktops with Zero Trust

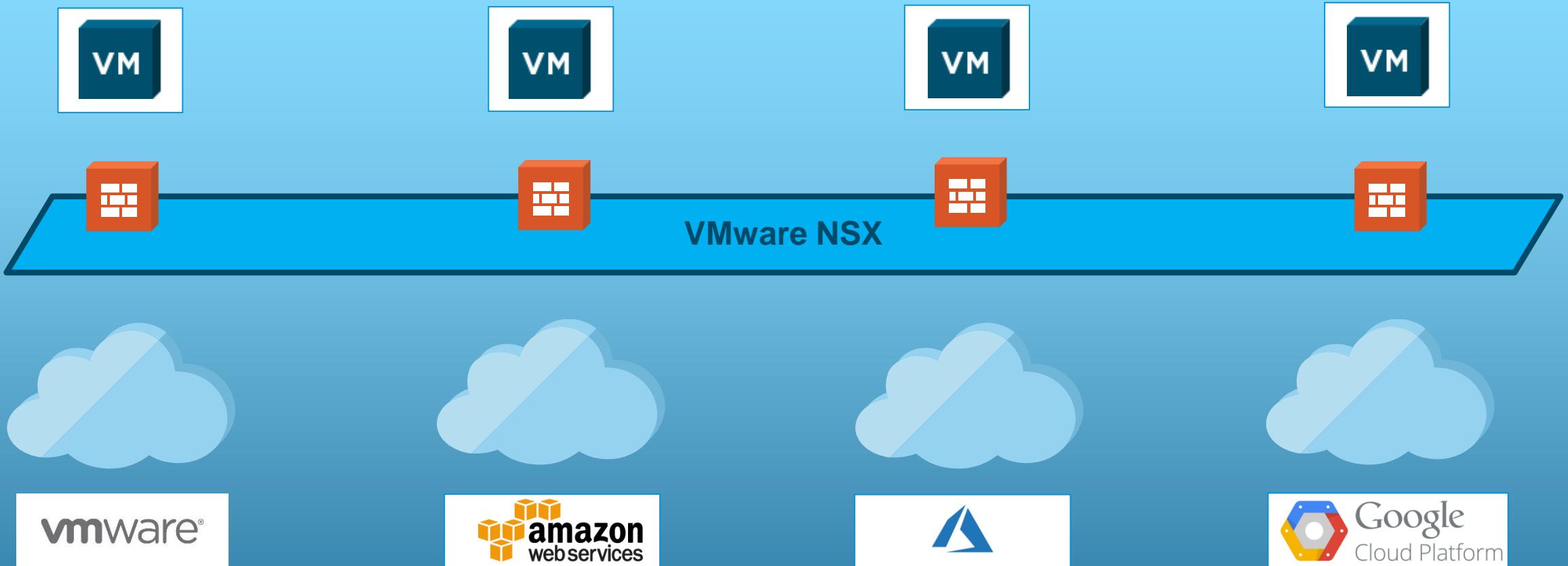


VMware Horizon  
Connection Broker

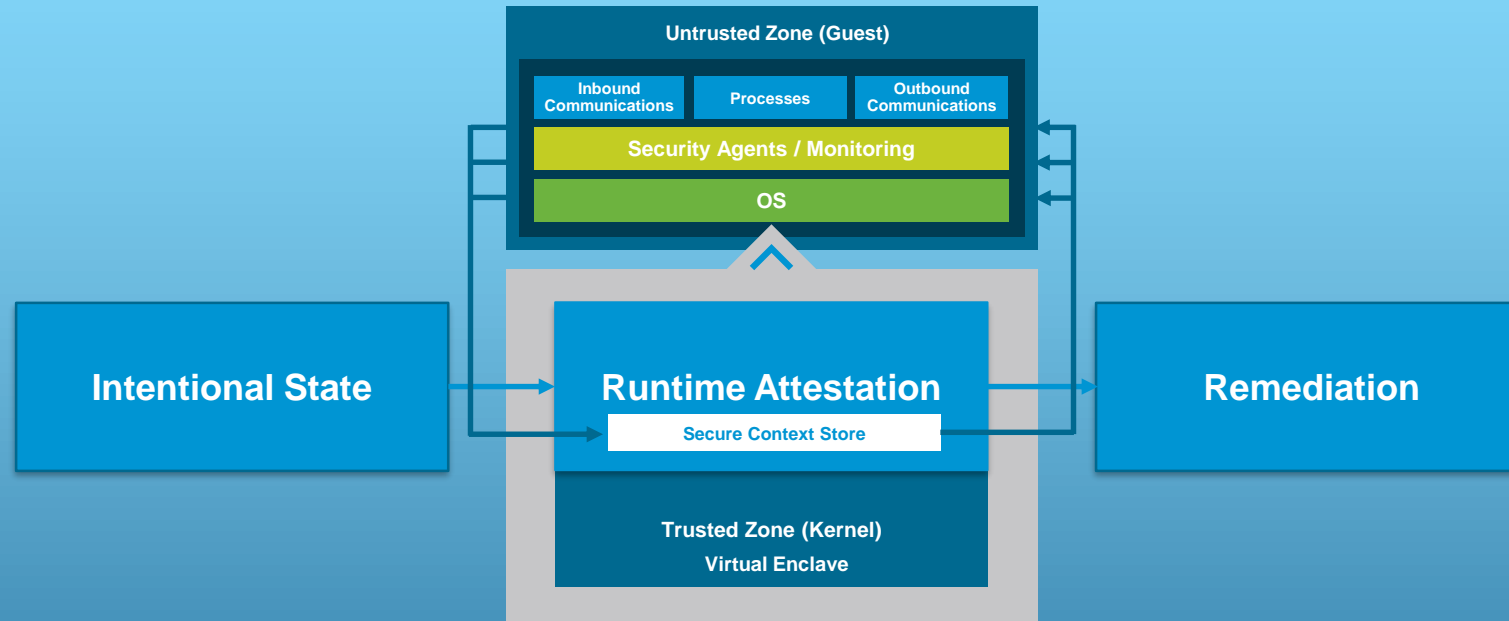




# Security Virtualization – Consistency Cross-Cloud



# Security Virtualization – AppDefense



**'least privileged' applied to the application**  
**Chasing the known-good instead of the unknown-bad**

# Security Virtualization – Getting Started

## Engage and Learn

Join VMUG for exclusive access to NSX  
[vmug.com/VMUG-Join/VMUG-Advantage](https://vmug.com/VMUG-Join/VMUG-Advantage)

Connect with your peers  
[communities.vmware.com](https://communities.vmware.com)

Find NSX Resources  
[vmware.com/products/nsx](https://vmware.com/products/nsx)

Network Virtualization Blog  
[blogs.vmware.com/networkvirtualization](https://blogs.vmware.com/networkvirtualization)

## Try

### Free Hands-on Labs

Test drive NSX yourself with expert-led or self-paced hands-on labs

[labs.hol.vmware.com](https://labs.hol.vmware.com)

## Take

### Training and Certification

Several paths to professional certifications.  
Learn more at [vmware.com/go/nsxtraining](https://vmware.com/go/nsxtraining)

# Q&A

