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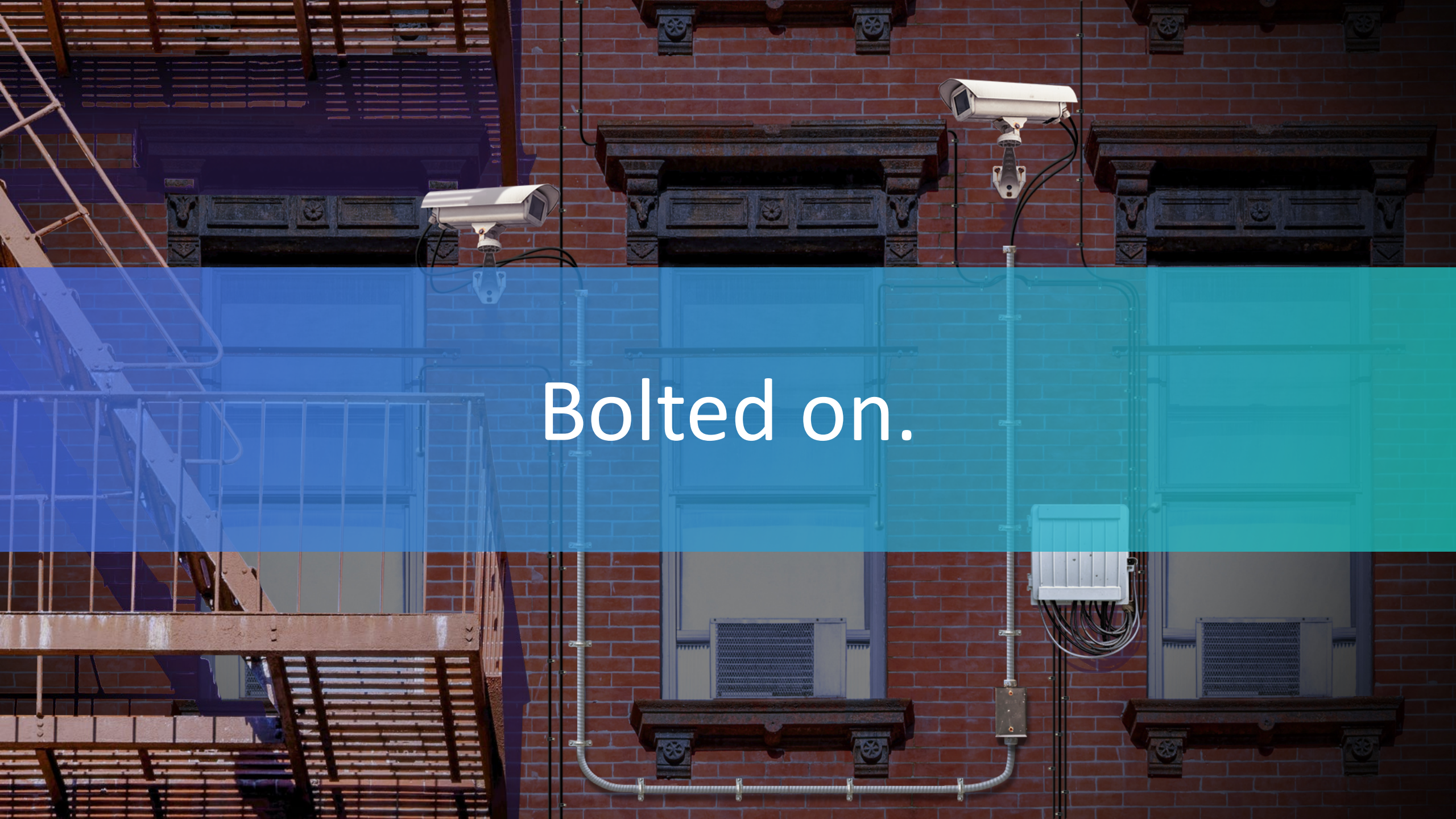
HUMAN ELEMENT

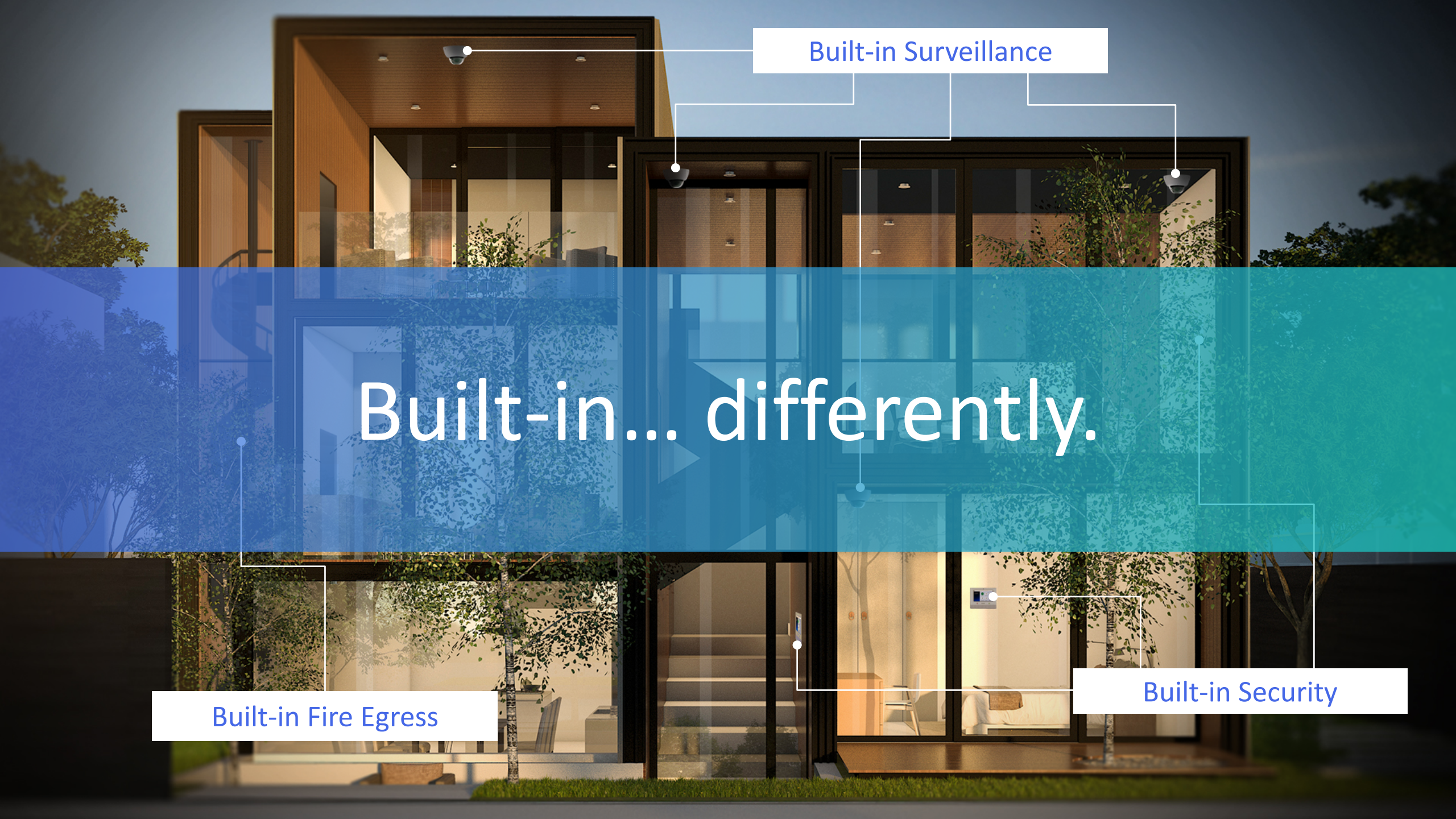
SESSION ID: PART3-T11

Unshackle Legacy Security Restrictions for 2020 and Beyond

Tom Gillis

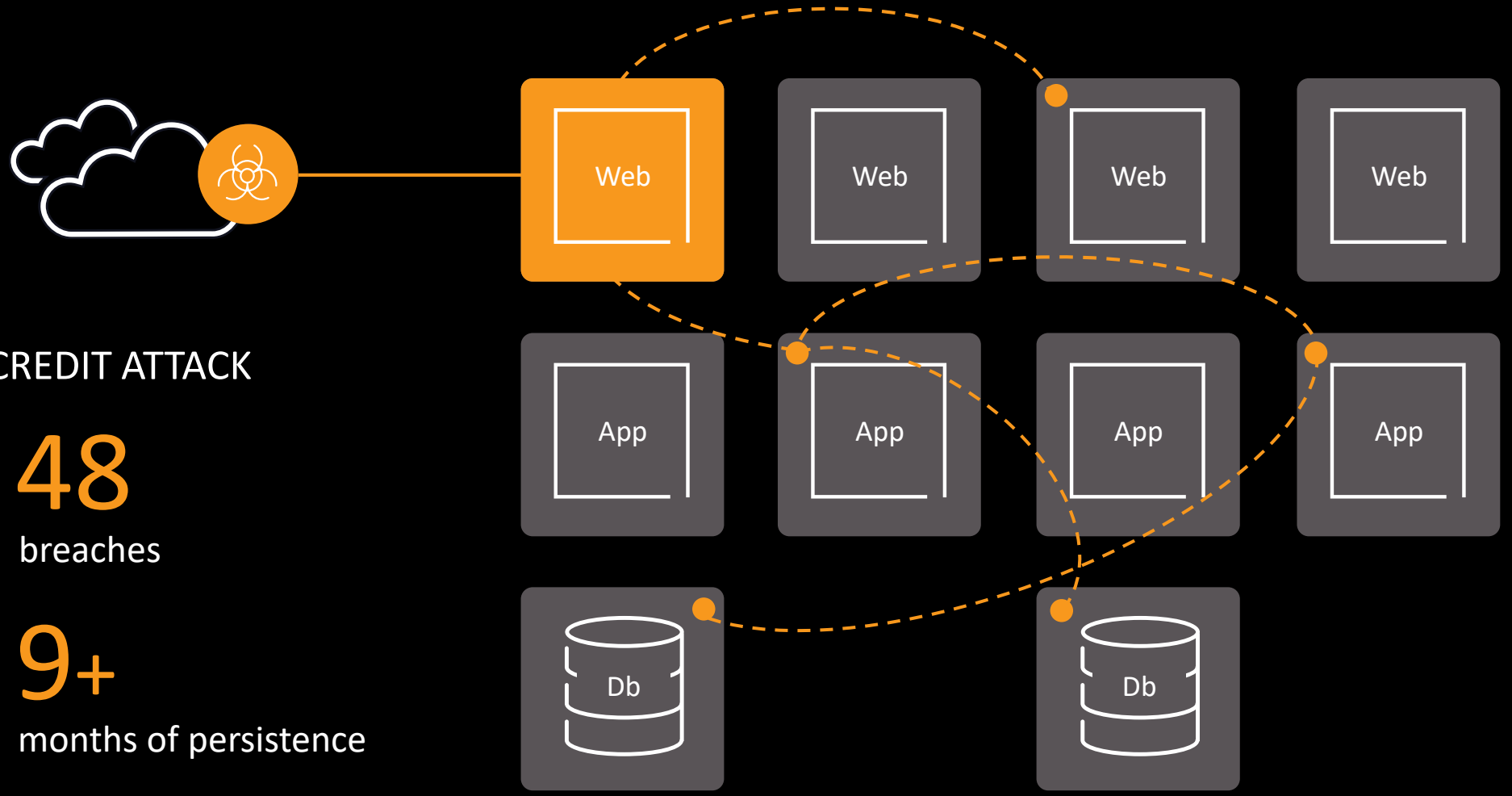
Senior Vice President / General Manager
Networking and Security Business Unit
VMware


Bolted on.


Built-in Surveillance
Built-in… differently.
Built-in Fire Egress
Built-in Security

The Power of Intrinsic

East-West is the new battleground



CREDIT ATTACK

48
breaches

9+
months of persistence

Major Financial Institution Attack

$3.5B

Market value erased after data breach was announced

Key Report Insights

Attacker Behavior

Defense Evasion

90%

of attacks in 2019 used defense evasion behaviors

Ransomware's Resurgence

60+%

of ransomware attacks are targeting critical infrastructure

Defender Behavior

IT / Security Dynamics

50%

of IT and security teams said they are currently understaffed

77%

said IT & security have a negative relationship

Maintenance and Integration

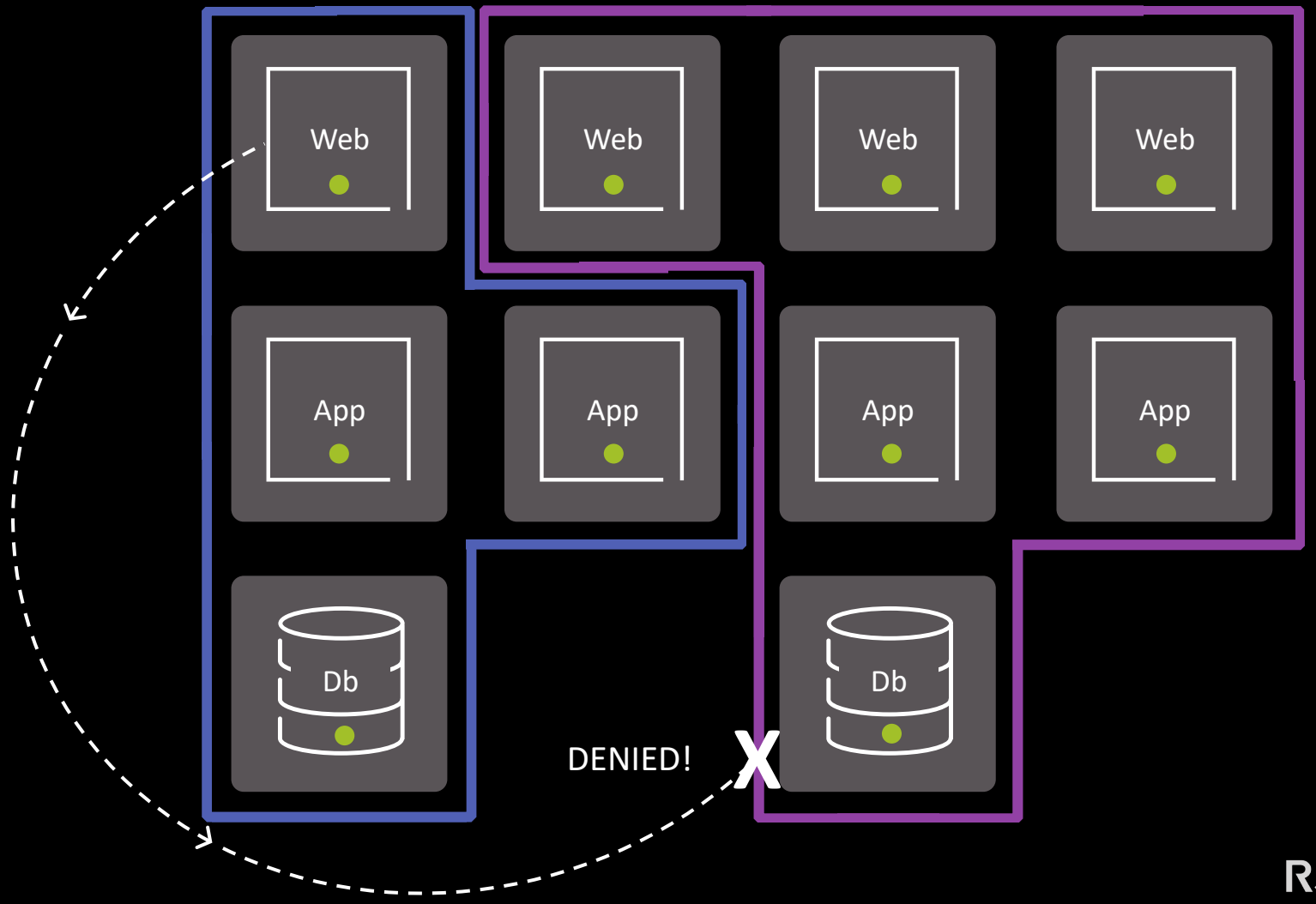
55%

said driving collaboration across IT and security teams should be the organization's top priority over the next 12 months

NSX Intelligence

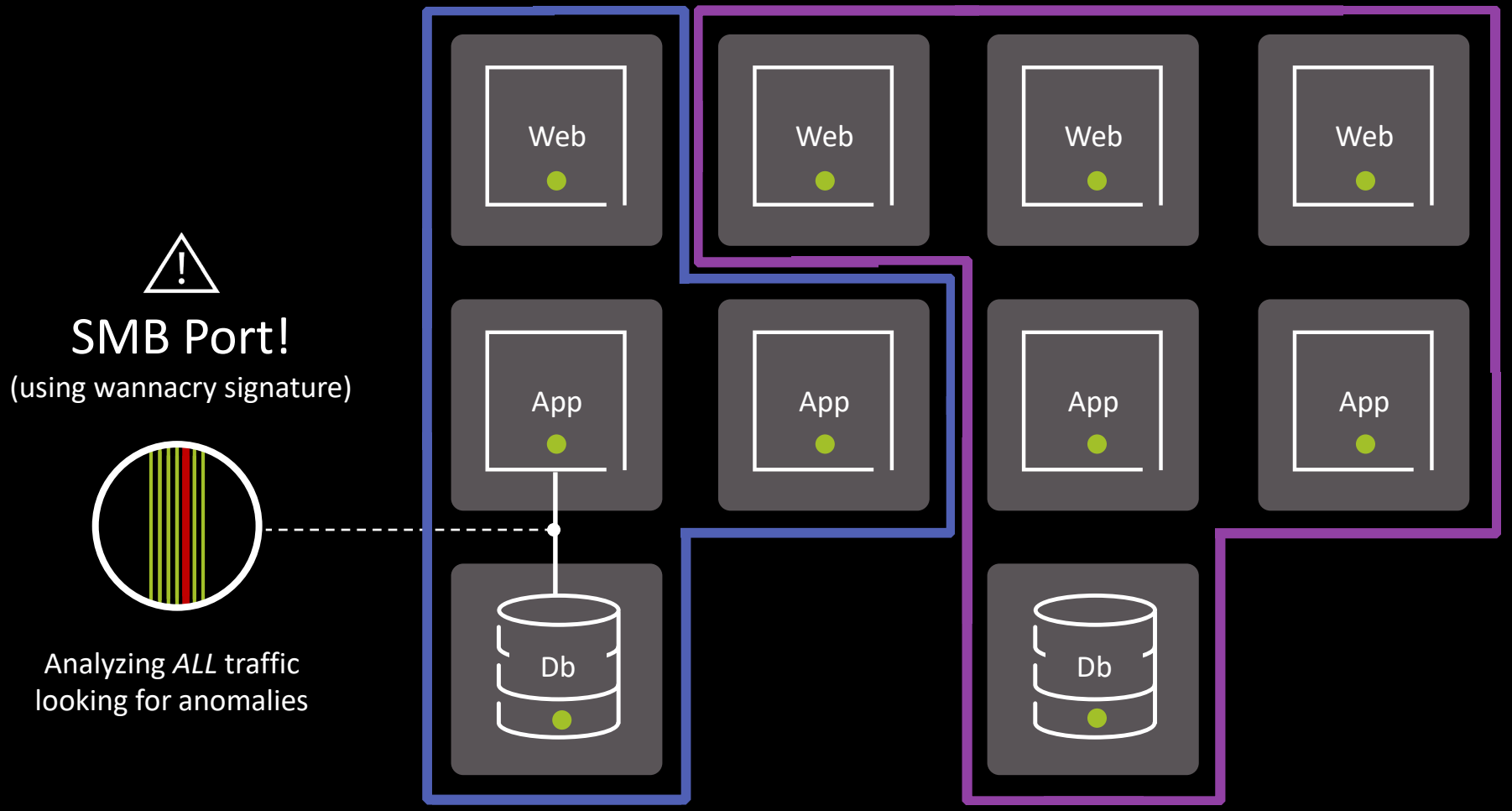
The Power of Intrinsic

Making E/W micro-segmentation work



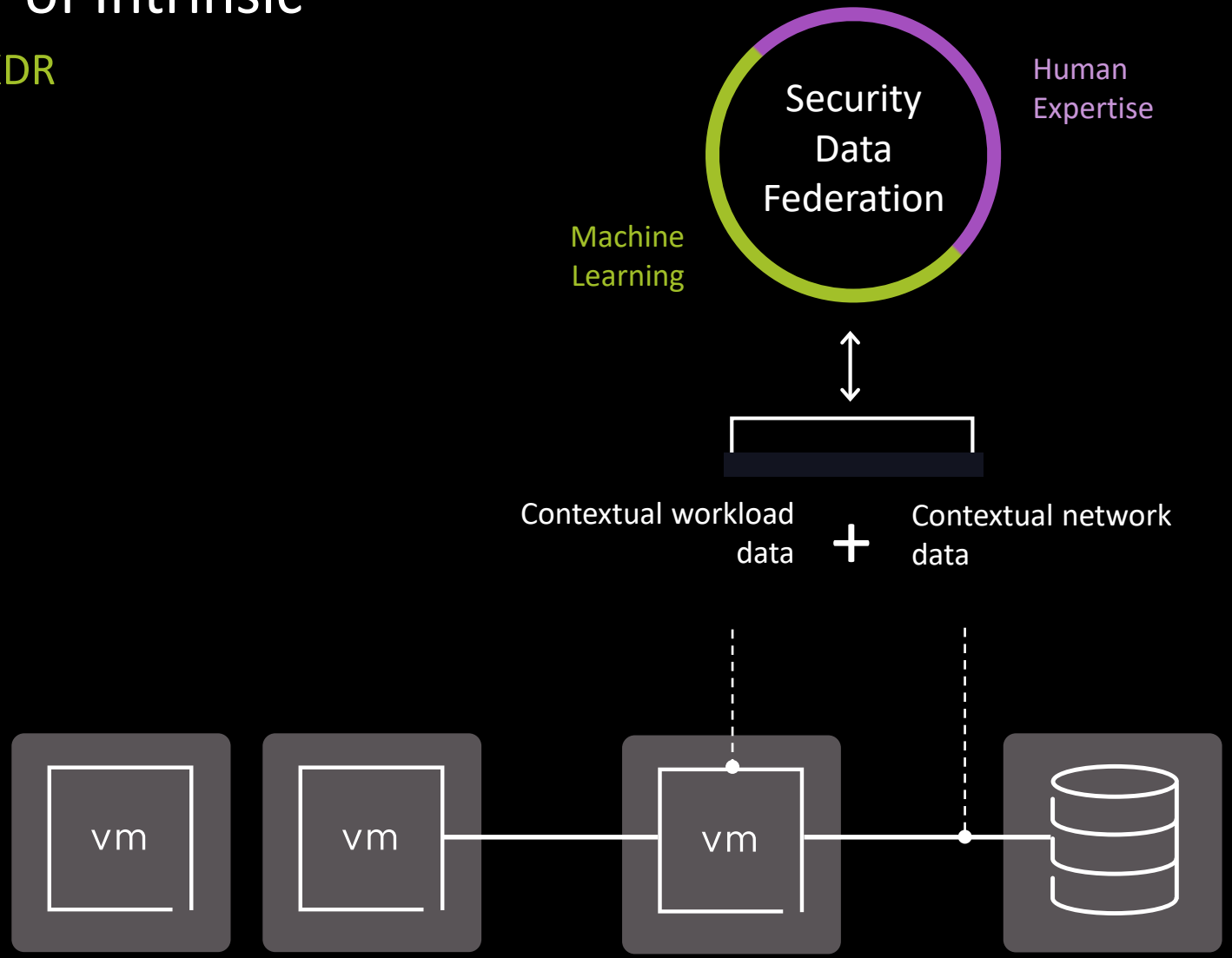
The Power of Intrinsic

From port blocking to E/W inspection



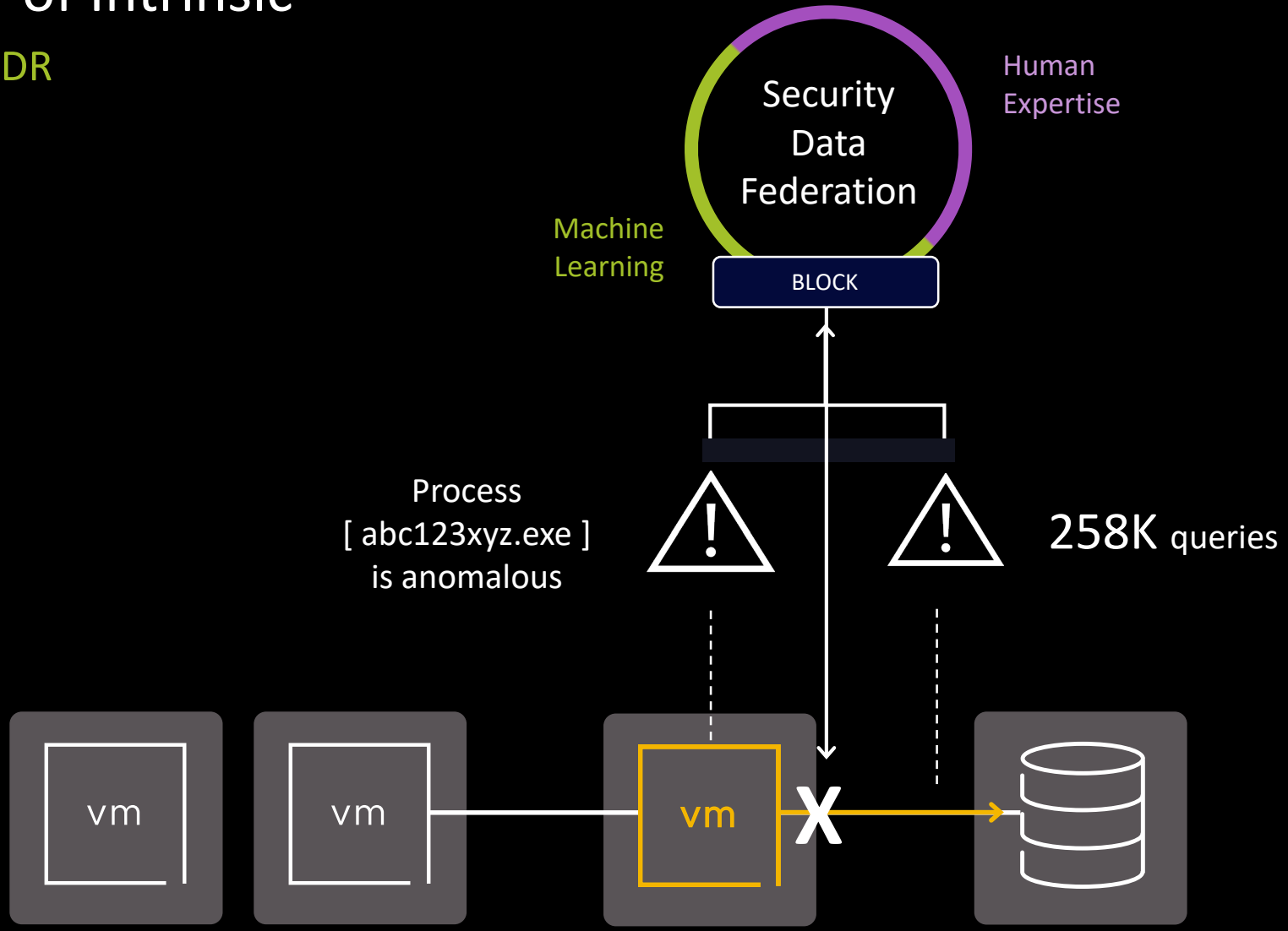
The Power of Intrinsic

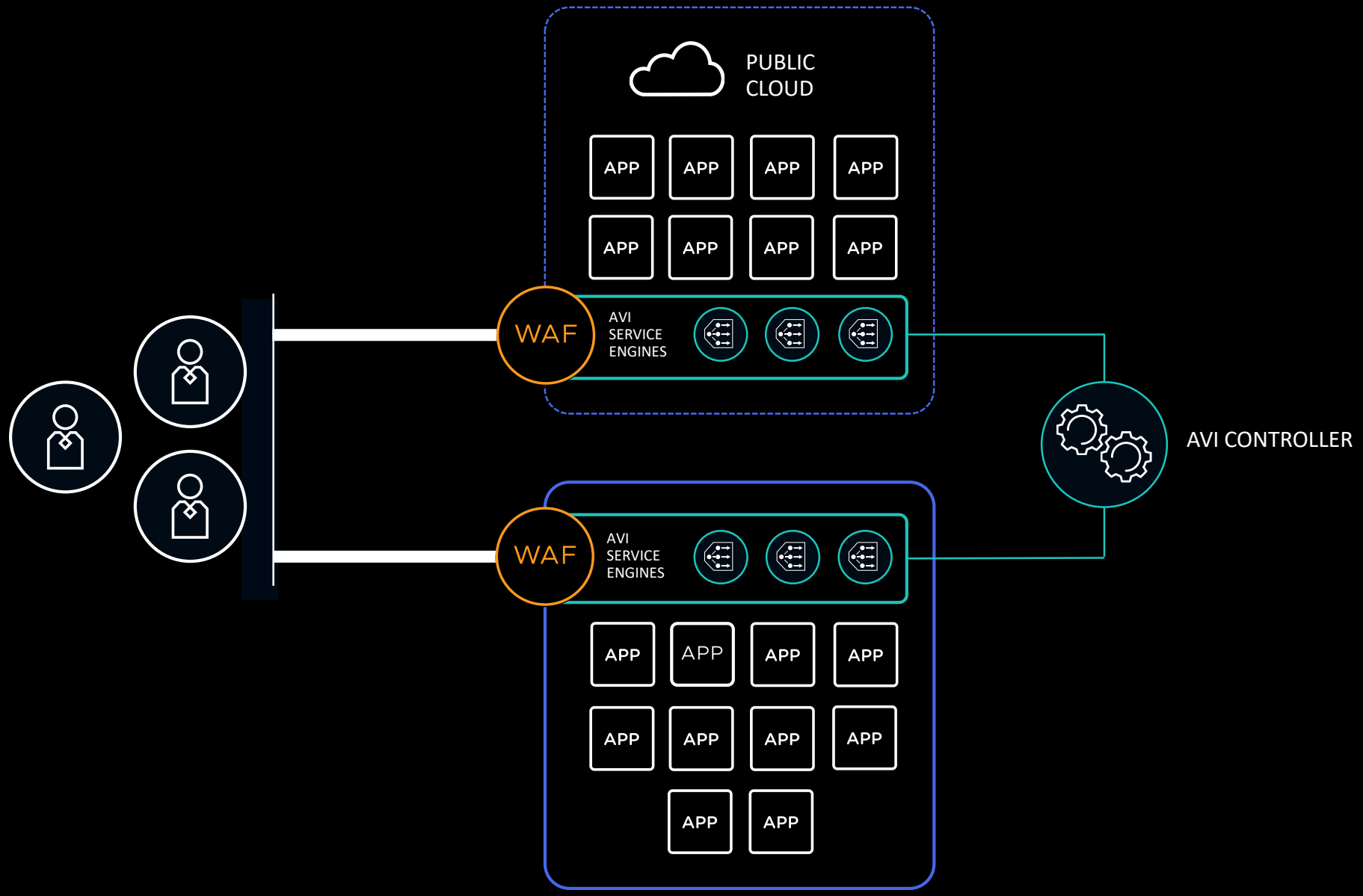
EDR + NDR = XDR



The Power of Intrinsic

EDR + NDR = XDR




PUBLIC
CLOUD
APP
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APP
WAF
AVI
SERVICE
ENGINES
AVI CONTROLLER
WAF
AVI
SERVICE
ENGINES
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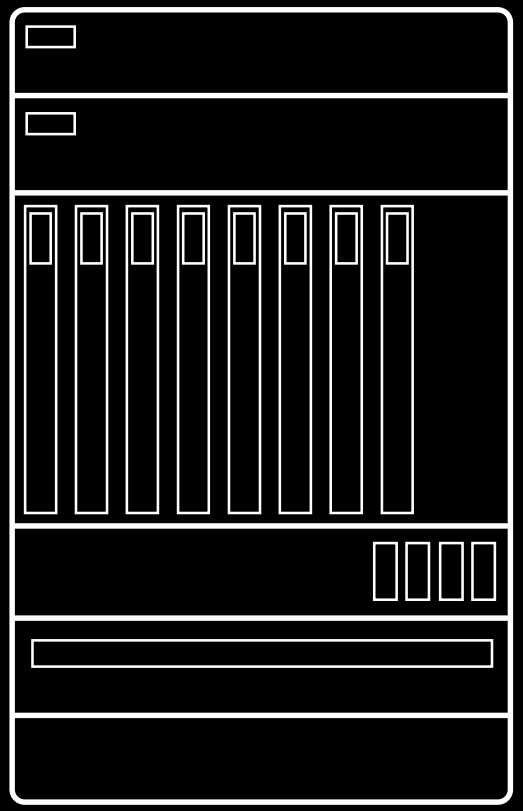
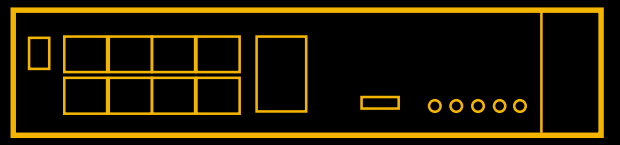
Paris DC

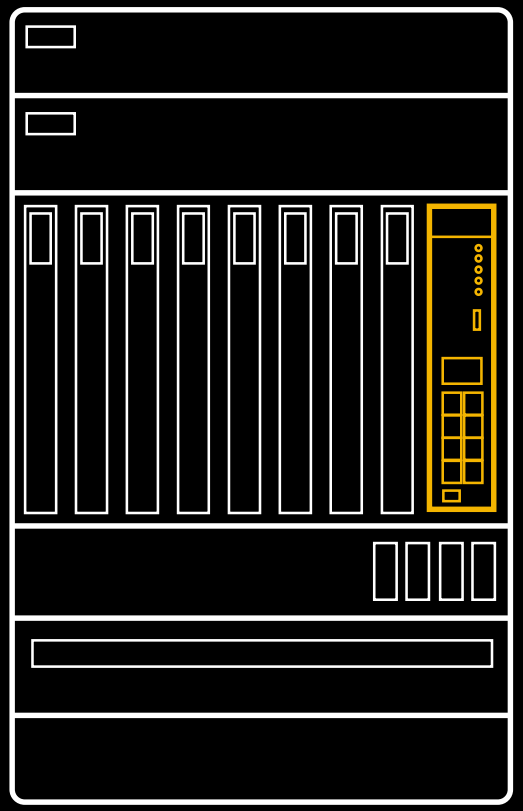
The end of the Black Box Era!

INTEGRATED = BOLTED ON



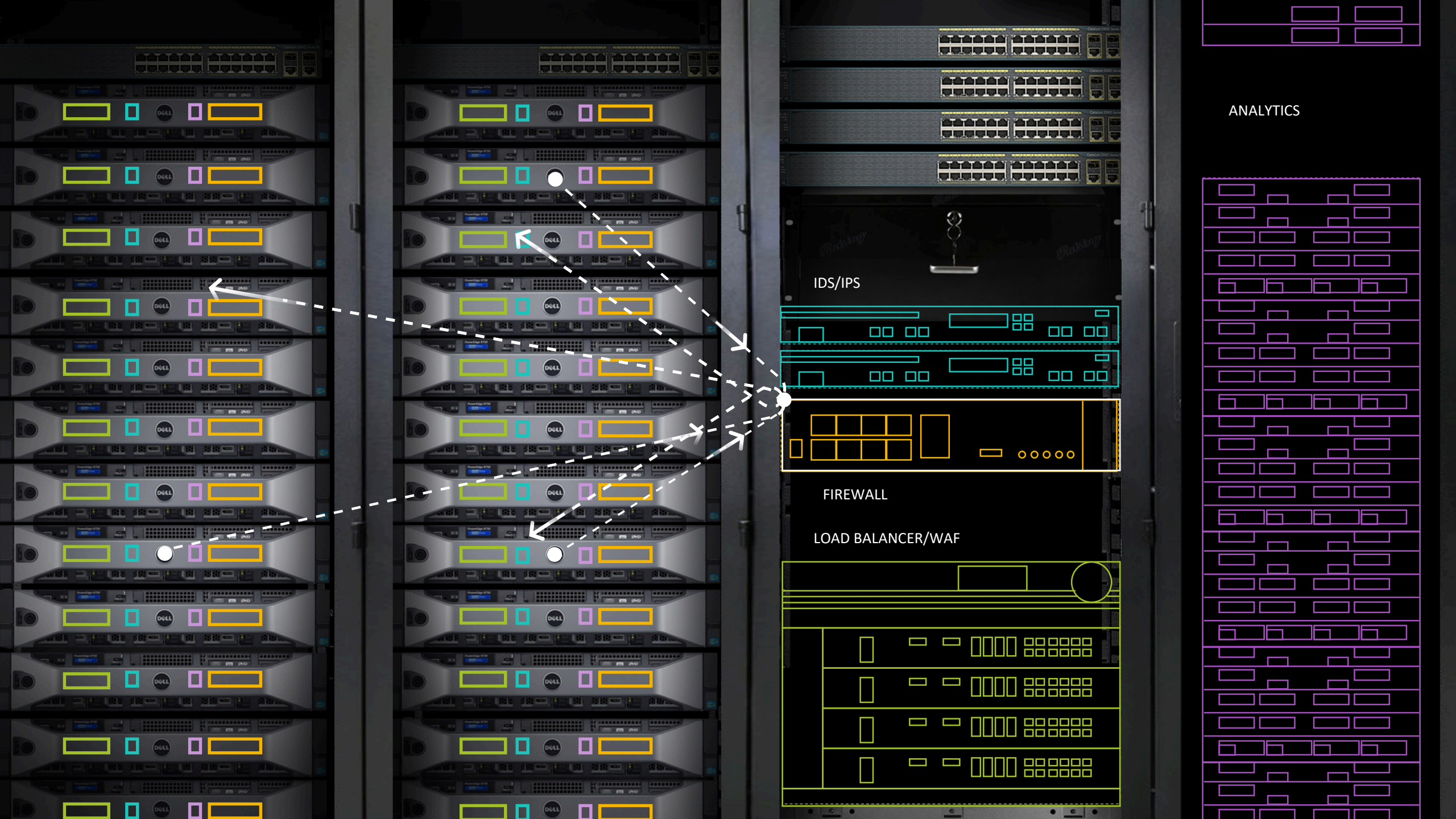


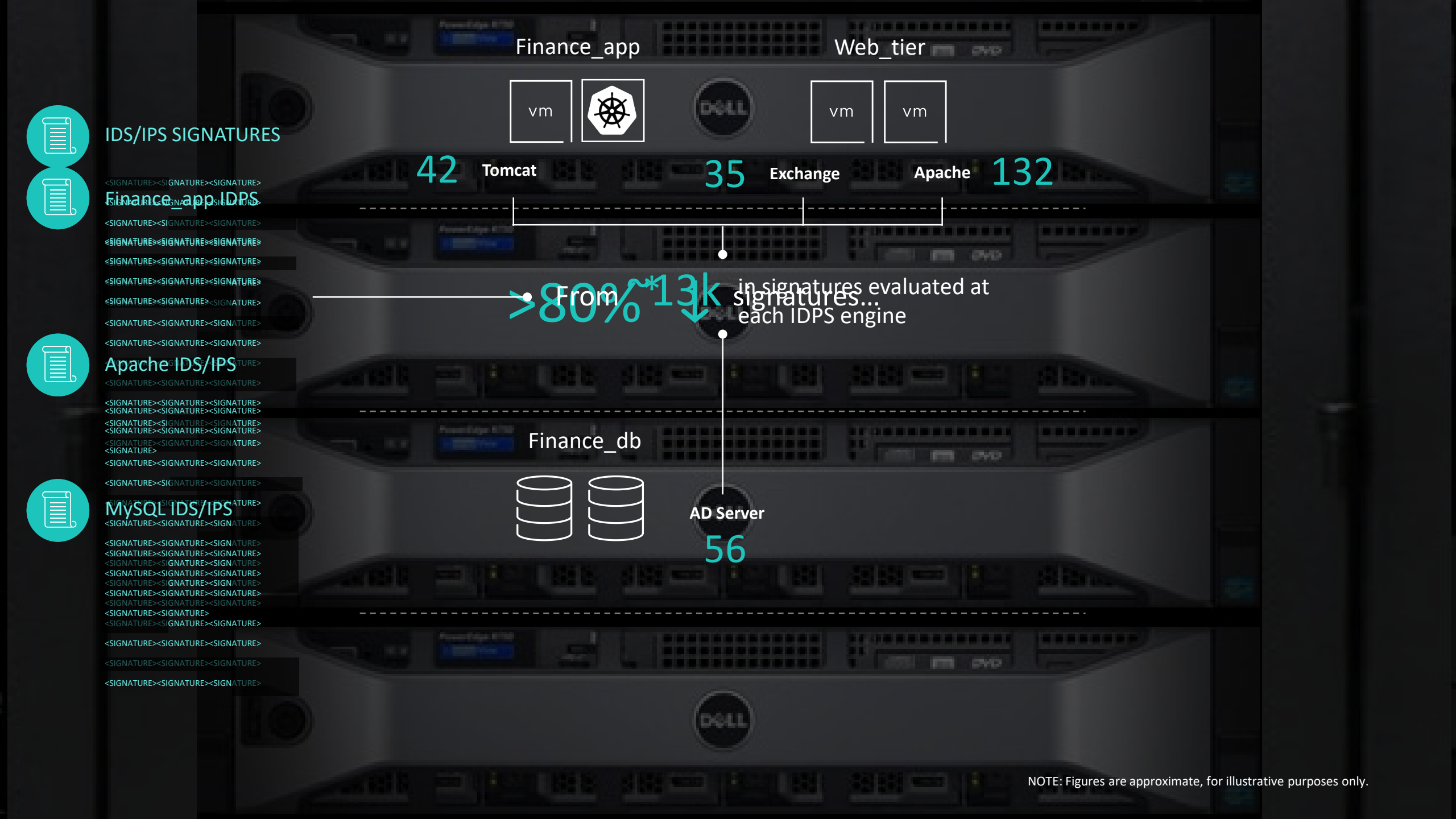
INTEGRATED = BOLTED ON



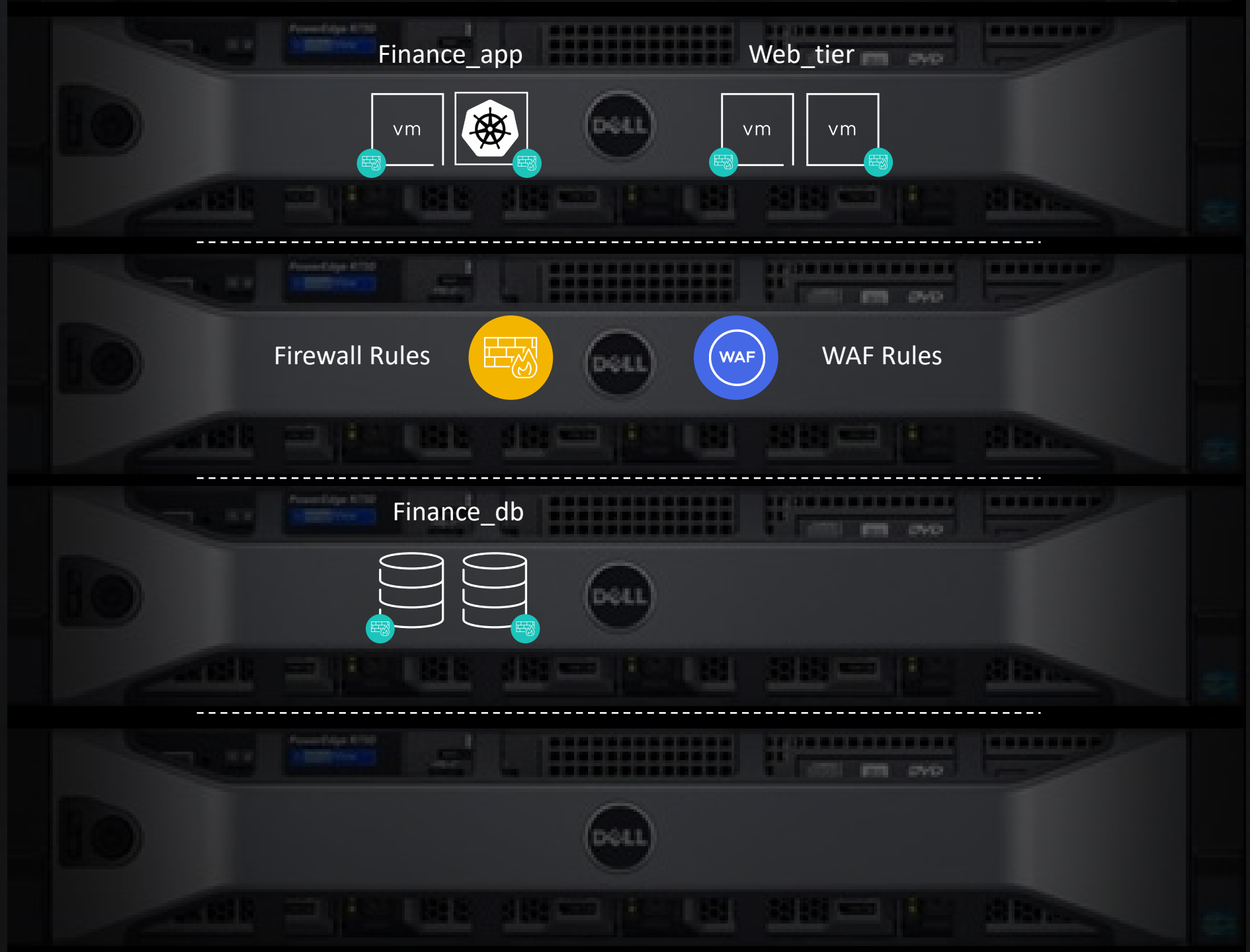
Same firewall…
…repackaged.

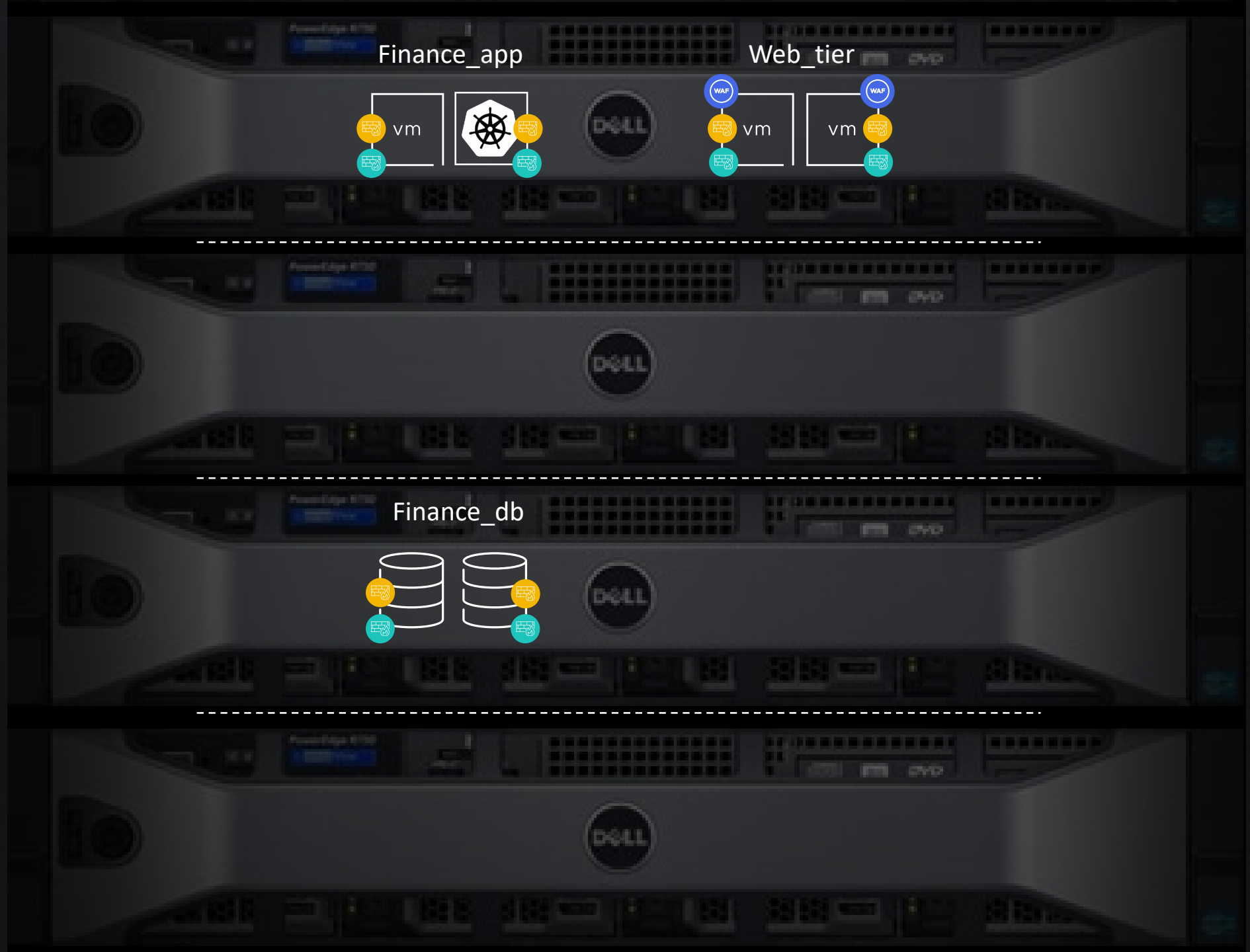

VIPRION


ANALYTICS
IDS/IPS
FIREWALL
LOAD BALANCER/WAF



NOTE: Figures are approximate, for illustrative purposes only.


Finance_app
Web_tier
vm
vm
vm
Firewall Rules
WAF
WAF Rules
Finance_db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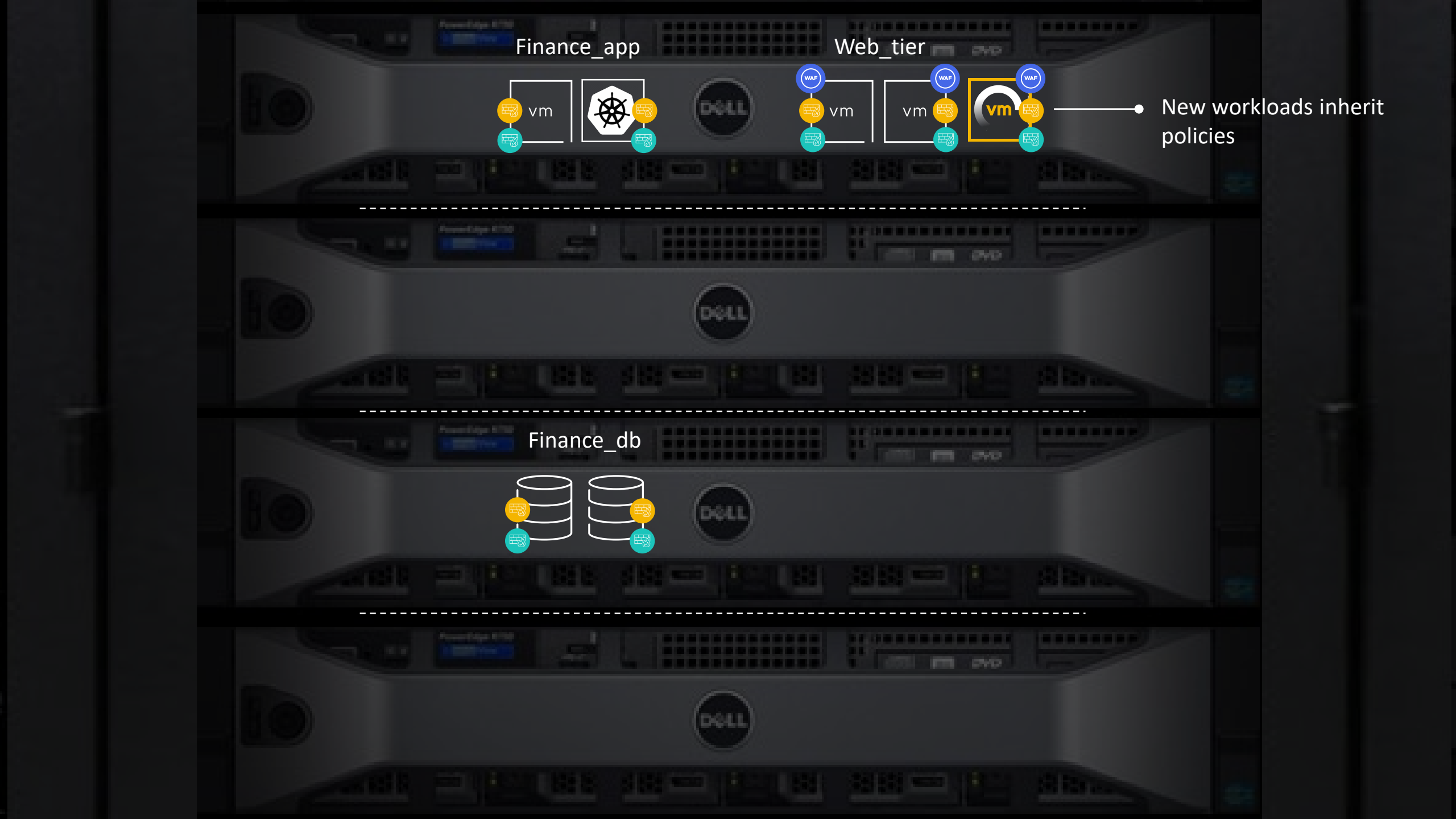
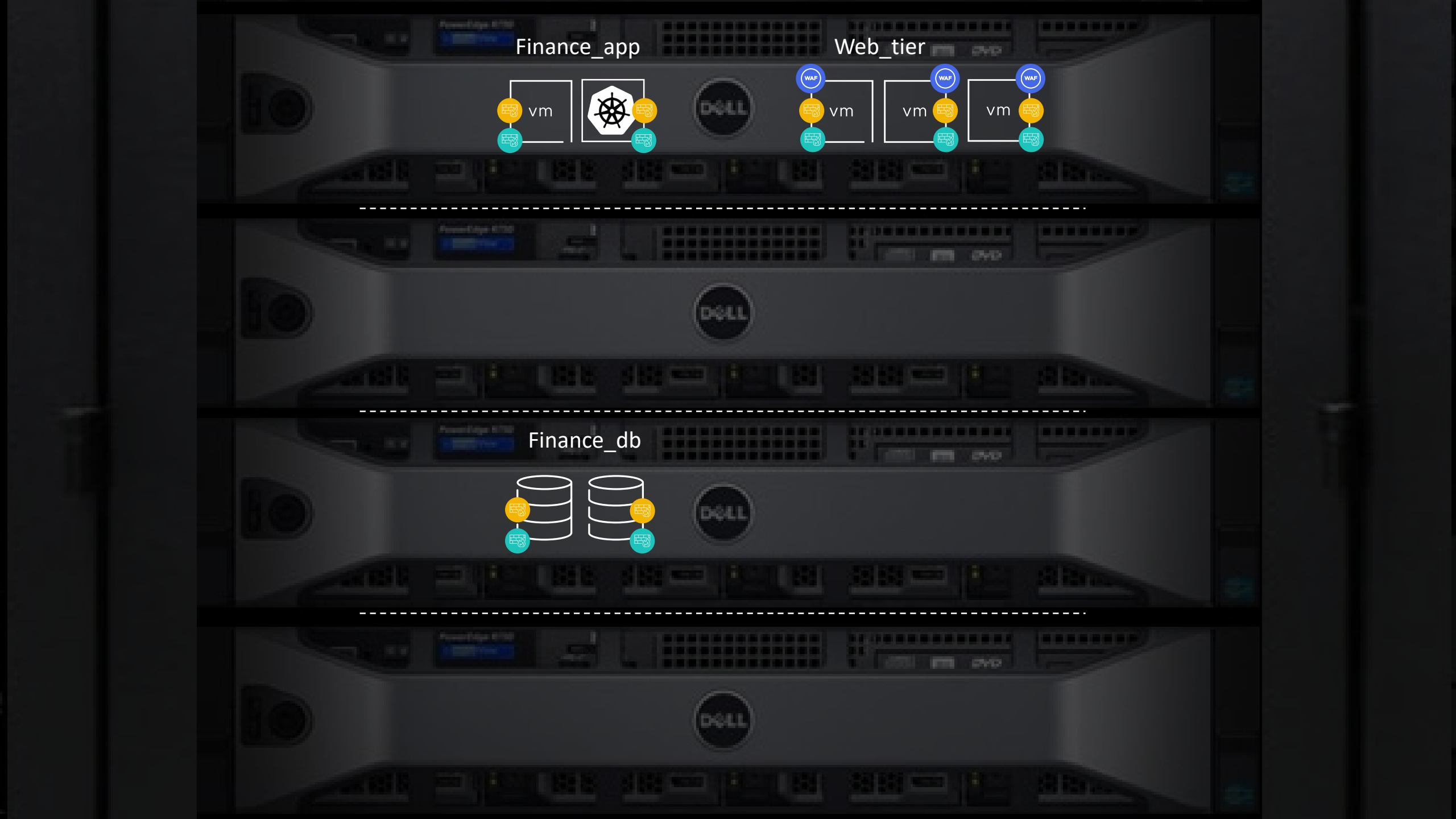
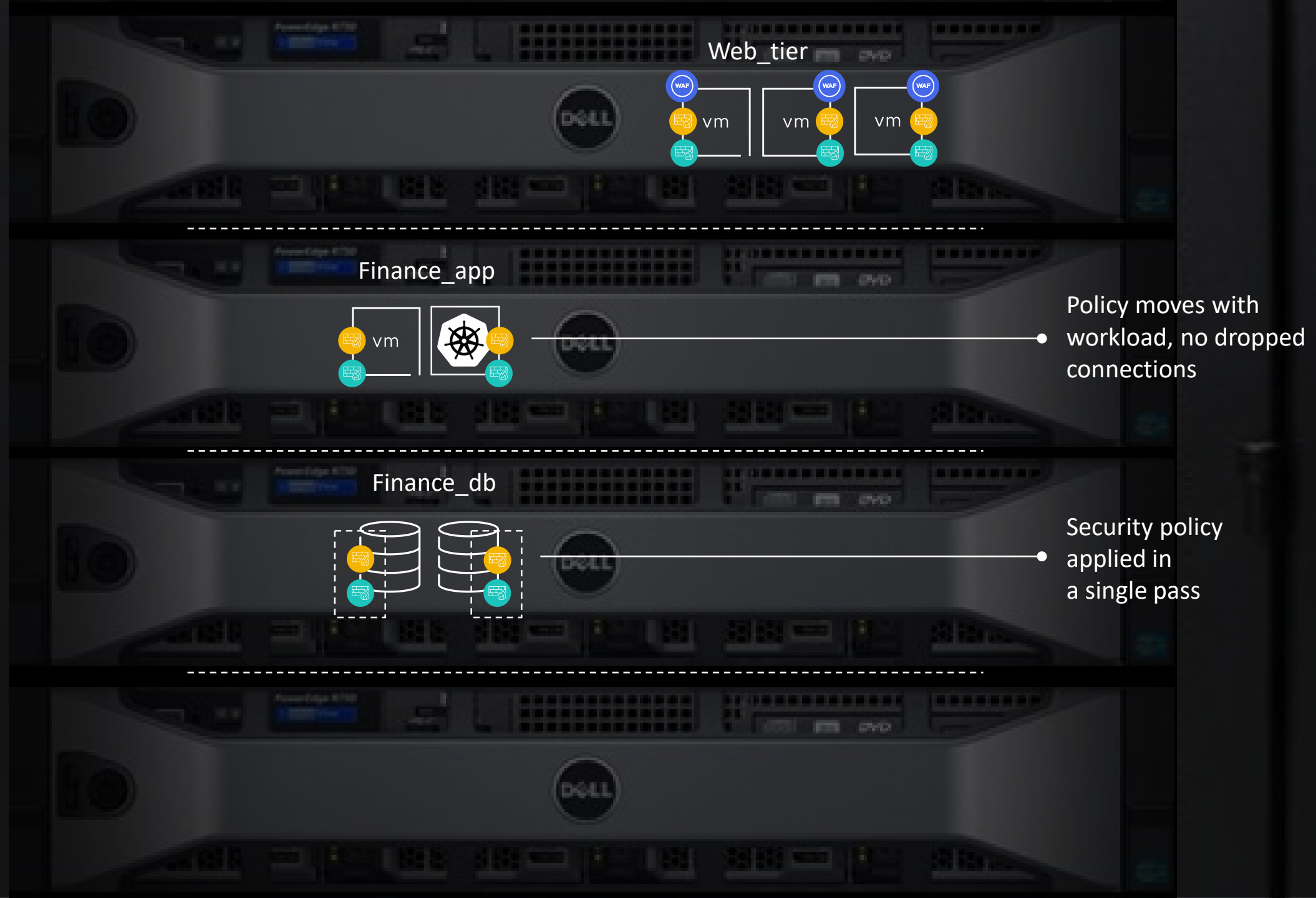
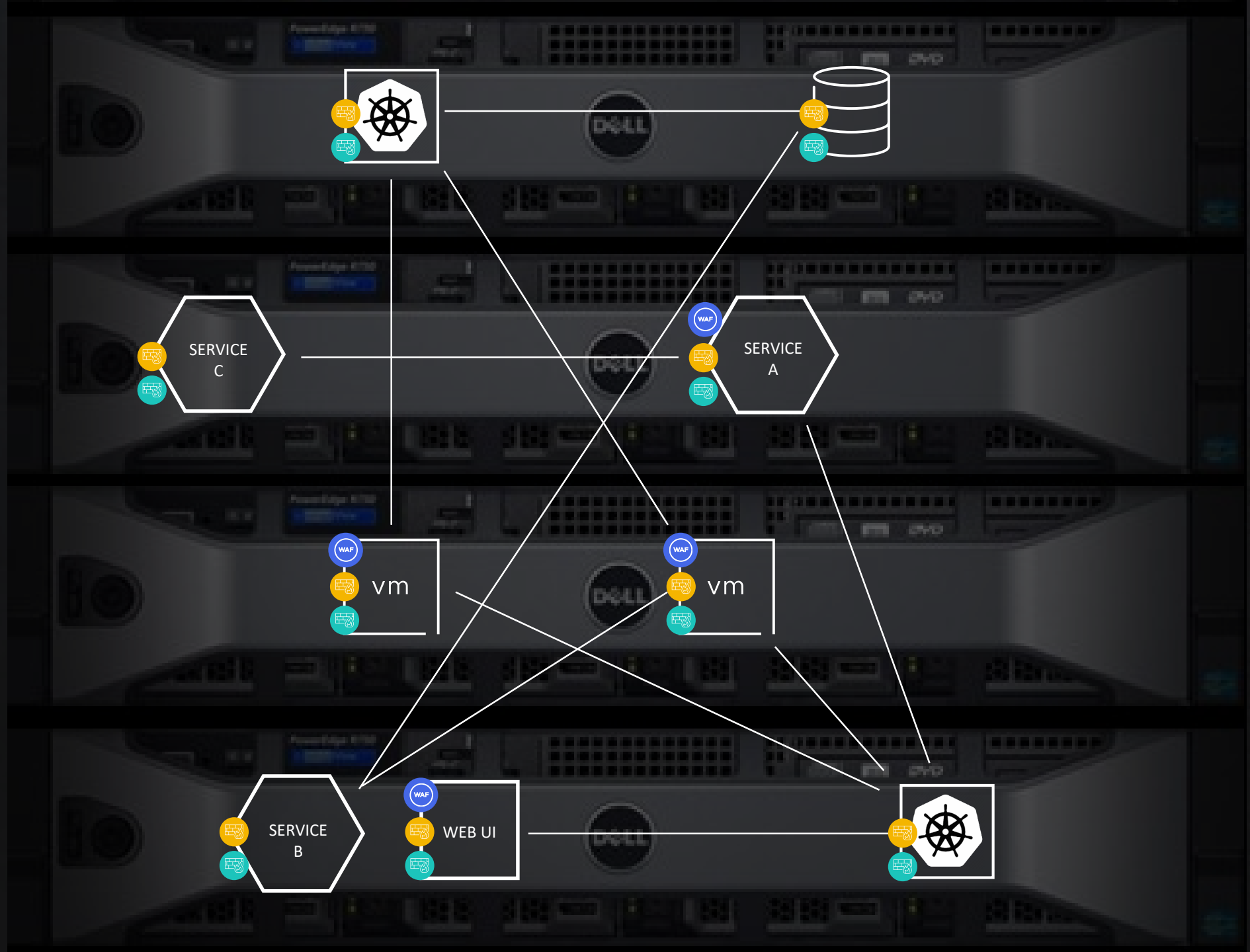
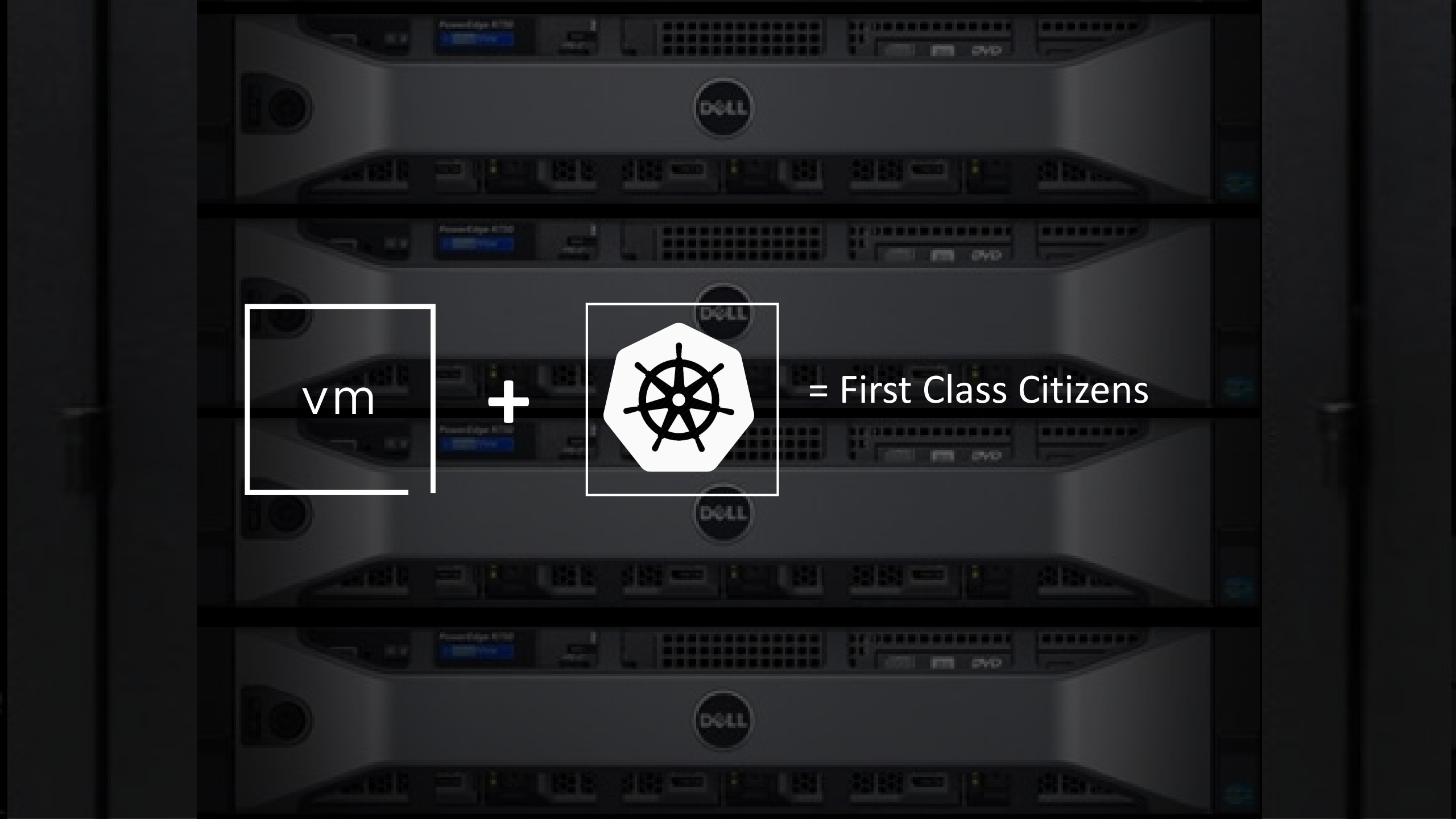
vm
Web_tier
WAF
vm
WAF
vm
Finance_db


Finance_app
Web_tier
vm
vm
vm
vm
WAF
WAF
WAF
New workloads inherit policies
Finance_db


Finance_app
vm
Web_tier
WAF
vm
WAF
vm
WAF
vm
Finance_db

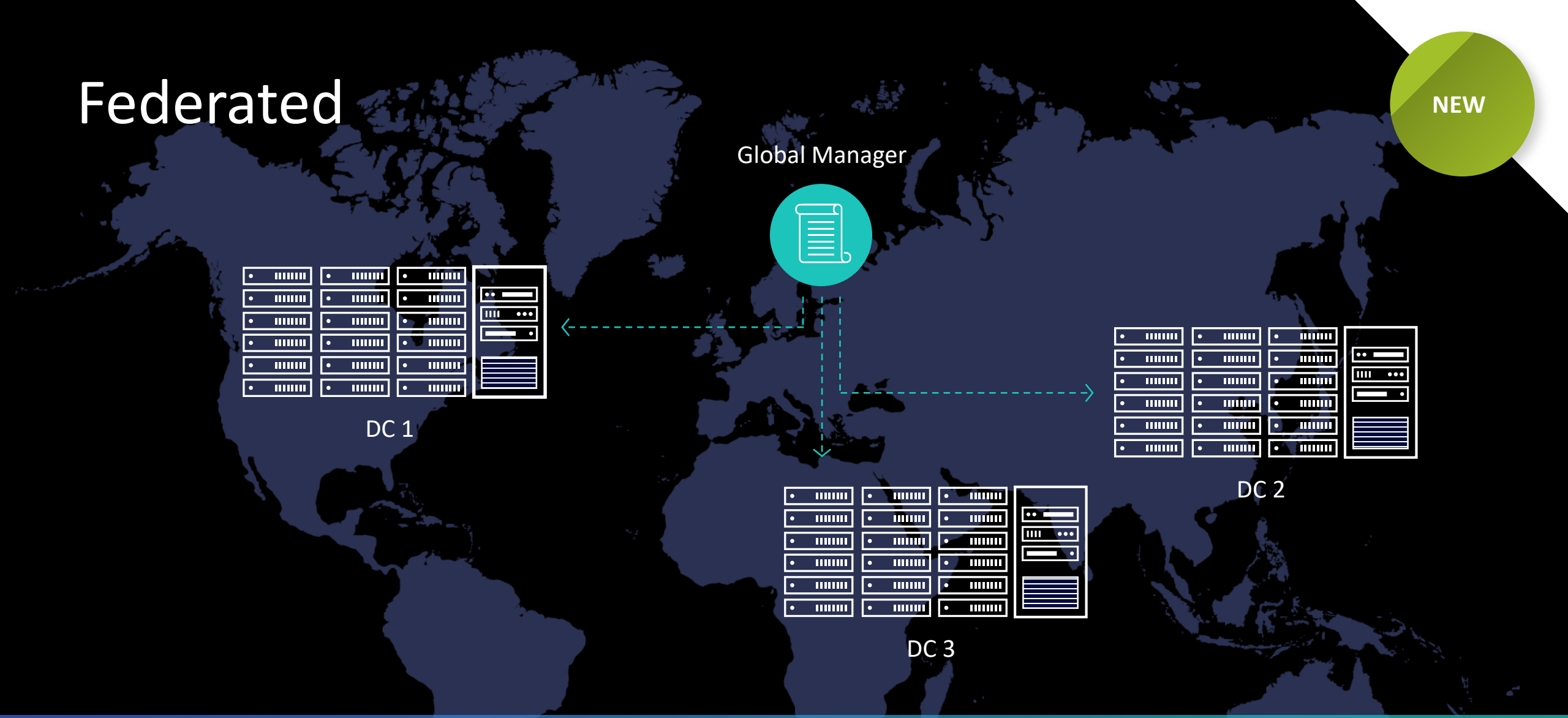

Web_tier
WAF
vm
WAF
vm
WAF
vm
Finance_app
vm
Policy moves with workload, no dropped connections
Finance_db
Security policy applied in a single pass


SERVICE
C
SERVICE
A
WAF
vm
WAF
vm
SERVICE
B
WAF
WEB UI


vm
+
= First Class Citizens

Federated

NEW

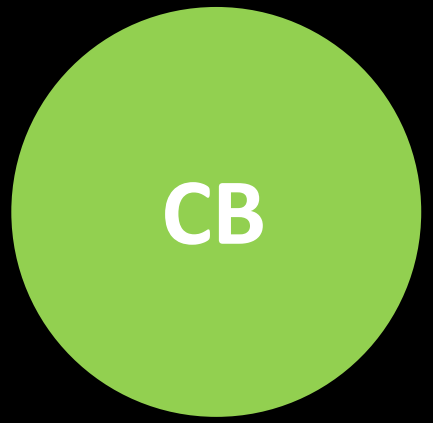


Allow globally dispersed deployments

Zone stretching

Workloads can move locations

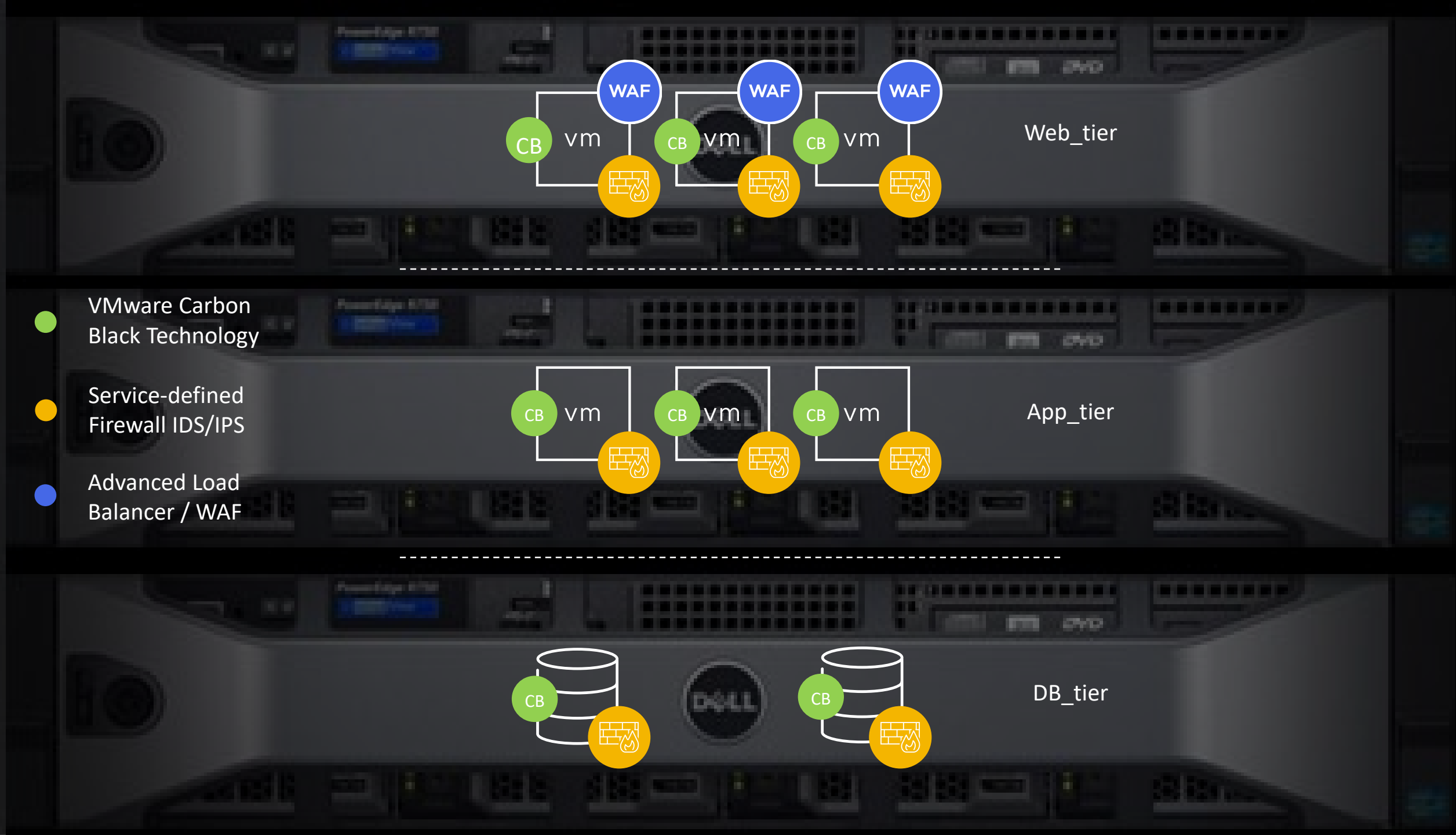
VMware Advanced Security for Cloud Foundation



VMware Carbon Black Technology

VMware NSX Advanced Load Balancer/WAF

VMware NSX Distributed IDS/IPS


WAF
WAF
WAF
CB
vm
CB
vm
CB
vm
Web_tier
VMware Carbon Black Technology
Service-defined Firewall IDS/IPS
Advanced Load Balancer / WAF
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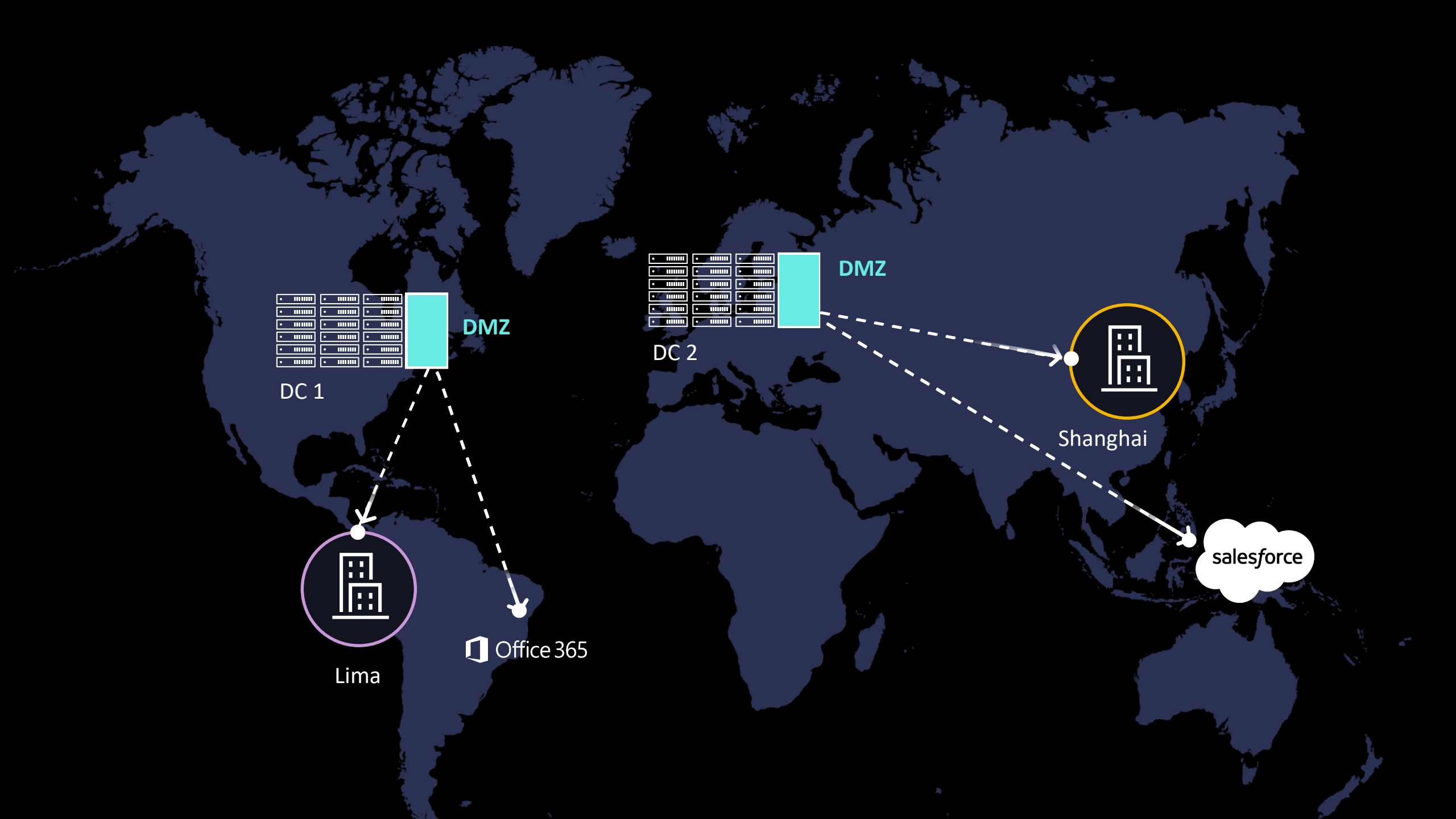
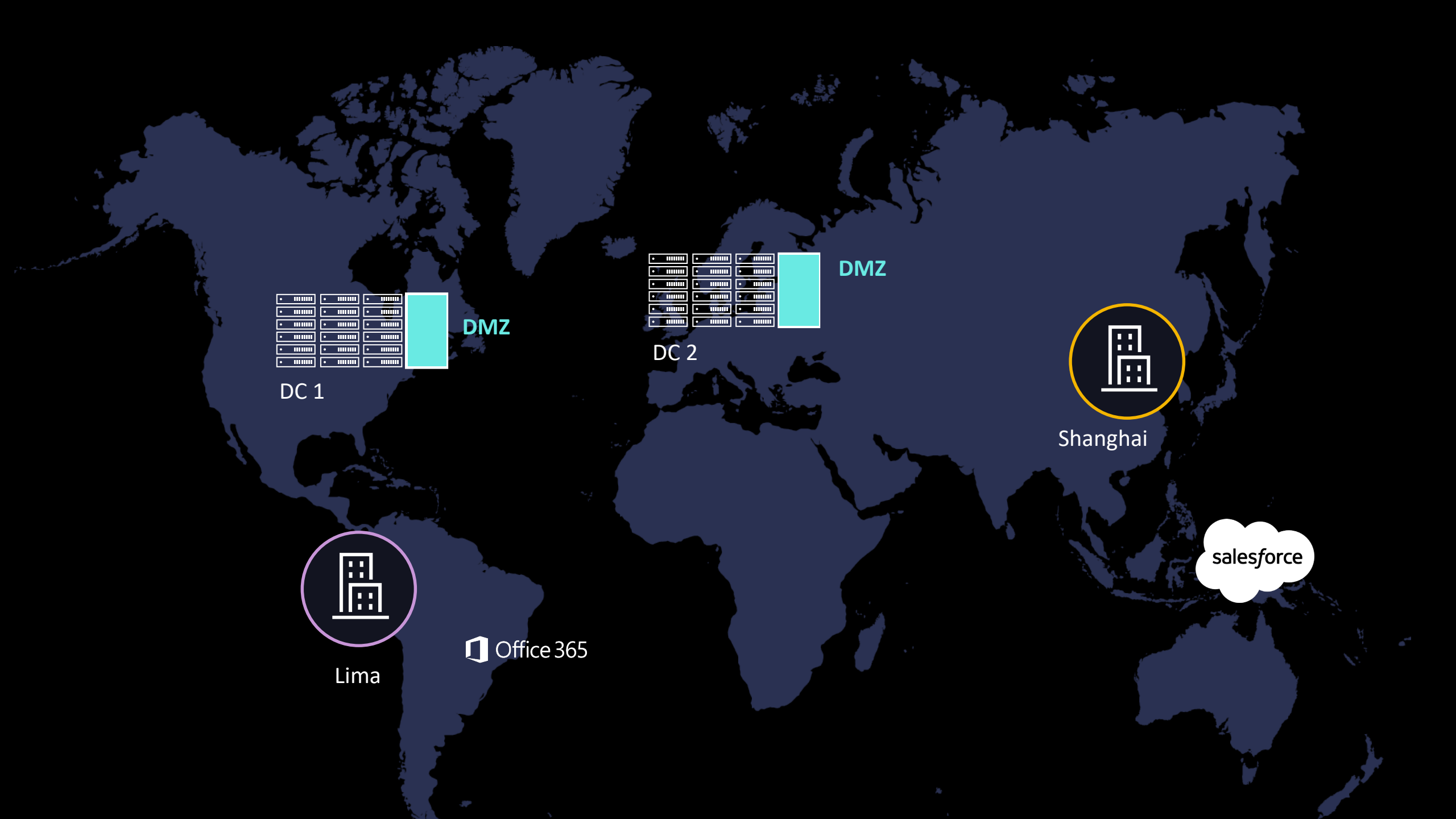
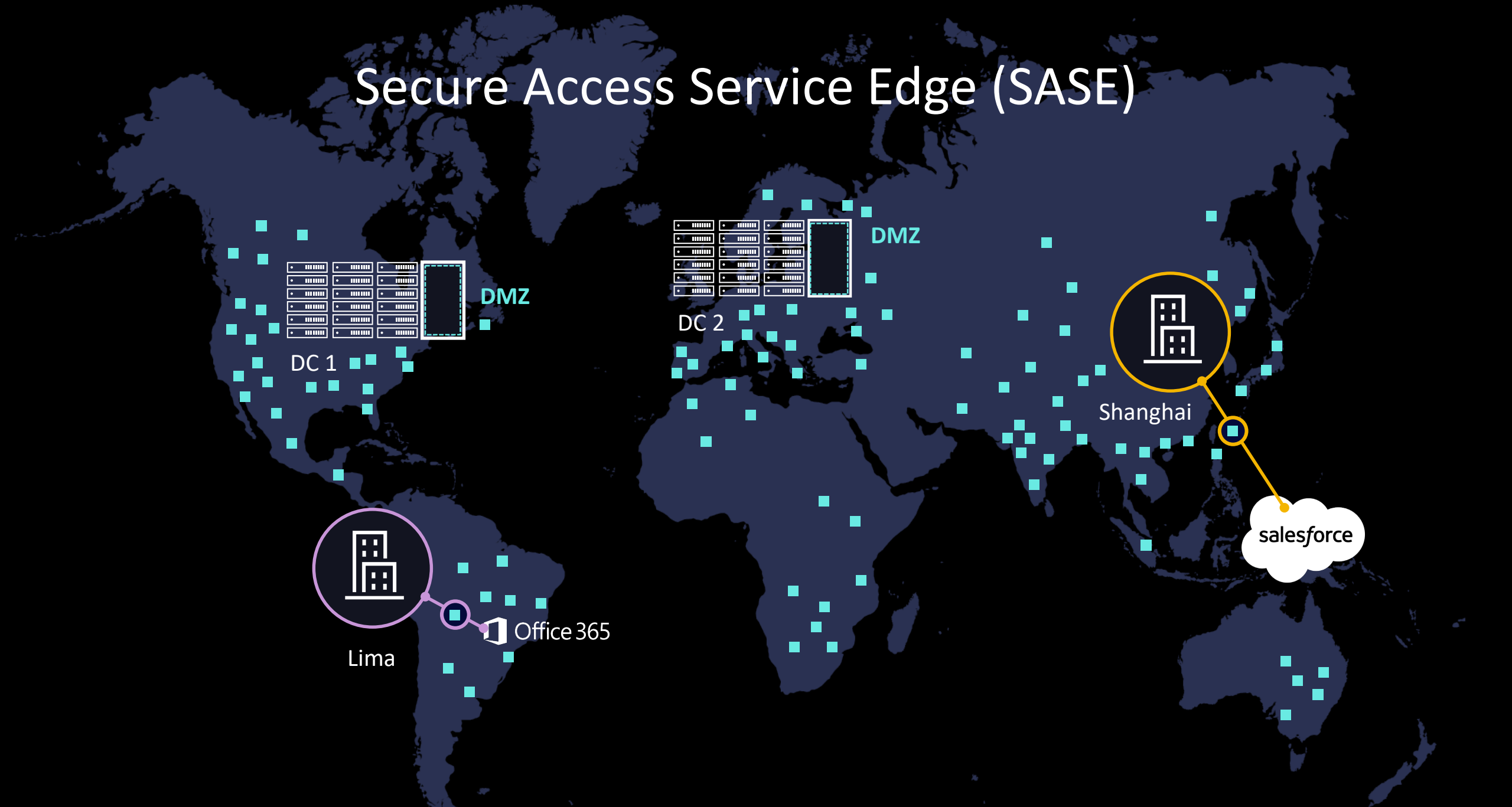
vm
CB
vm
CB
vm
App_tier
CB
CB
DB_tier


DMZ
DC 1
DMZ
DC 2
Shanghai
Lima
Office 365
salesforce


DMZ
DC 1
DMZ
DC 2
Shanghai
Lima
Office 365
salesforce

Secure Access Service Edge (SASE)



Demo

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Thank You