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Keynote

Why the Path to the Autonomous Enterprise is with AI-Powered Hybrid IT

June 6, 2019 | Las Vegas, NV

CDW | EXECUTIVE SUMMIT SERIES

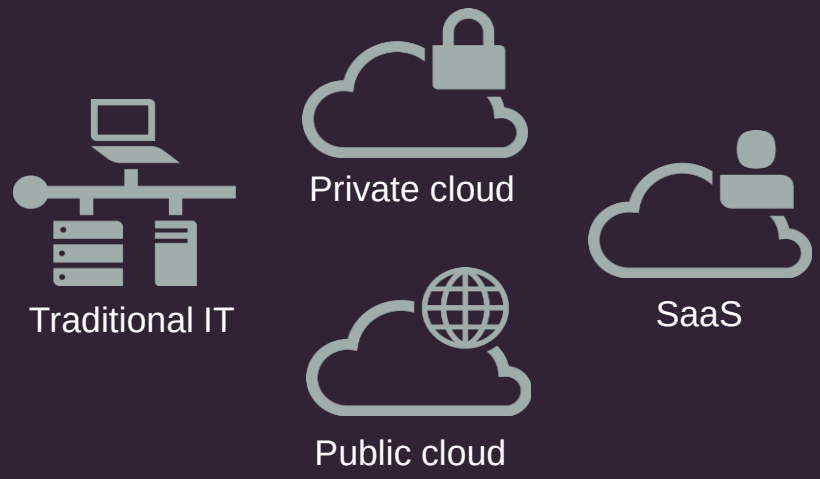
Evolution of Traditional IT to Hybrid IT

Traditional IT

Internal Infrastructure, multiple tools for mgmt

Internal Management Tools

Multiple IT Models

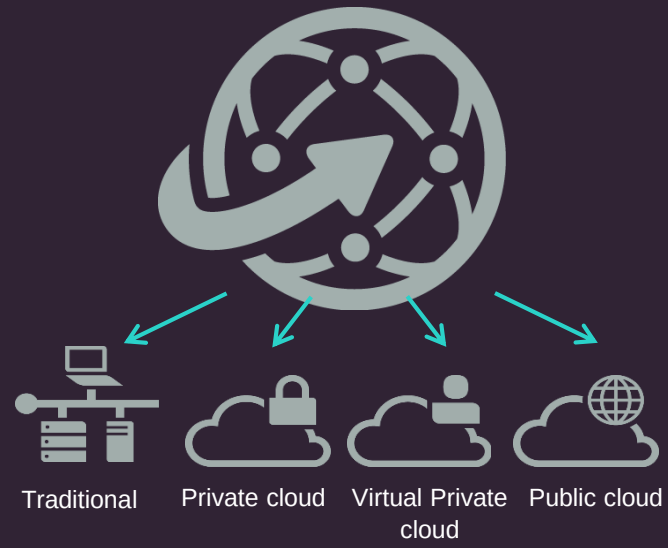


Multiple cloud deployment models

Each Provider Managed Separately.

Difficult to have consistent management, operations, and optimization.

Hybrid IT



Application centric, IT across multiple internal and cloud services

Need Visibility and Management Across all IT Servers, Clouds, Applications.

Need Automation and Intelligence to Monitor, Optimize, and Self-Heal.

Shifting from Traditional IT

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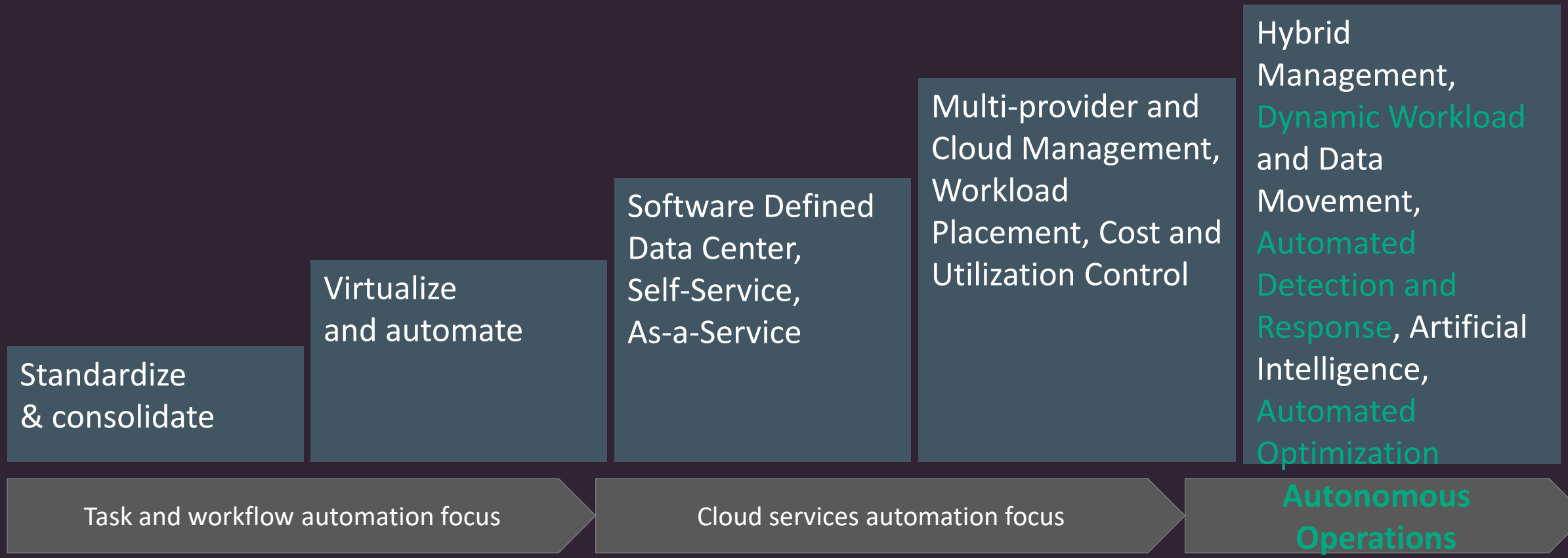
Journey from Traditional IT



Transitioning to Hybrid IT / Cloud

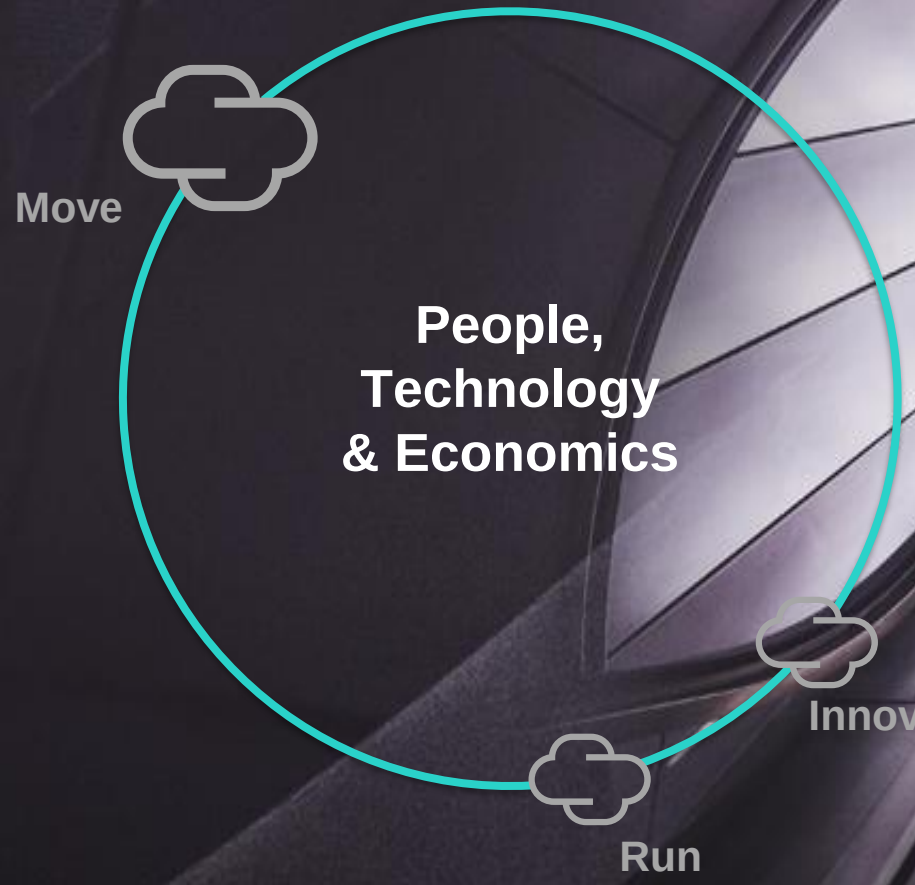
1) Assess
workloads and data
align to business goals

2) Develop your strategy
right mix of public/private

3) Migrate and Replace
migrate apps and data,
replace w/ SaaS,
retire

4) Manage
all of your clouds with
visibility and control

5) Innovate and Repeat



Visibility, security, governance; metering, cost and utilization control, capacity and performance management are core challenges in hybrid IT and cloud ecosystems.

Automation, Analytics, and Artificial Intelligence is how to keep up with the velocity of hybrid IT and cloud

Long-Term Strategy for Better Hybrid IT Management

Automation, Analytics and Artificial Intelligence

Composable, software-defined storage, compute, and networking infrastructure

Automated provisioning, dynamic workload management, automated healing and optimization

Global telemetry and machine learning, analytics and predictive analysis, artificial intelligence

HPE Hybrid IT – Beyond the Hardware

HPE OneSphere
Hybrid IT Management

HPE OneView
Composable Infrastructure

HPE InfoSight
AI for the Data Center

HPE Composable Fabric
Software-defined Networking

Hybrid Management
Managing internal and external

Composable data center
Software defined “everything”

Composable systems
Software configured infrastructure

Hyperconverged
Collapsed and pooled storage
and compute

Traditional
Integrated compute, networking, storage devices

Composability, Artificial Intelligence, and Hybrid IT Management

HPE OneSphere
Hybrid IT Management

HPE OneView
Composable Infrastructure

HPE InfoSight
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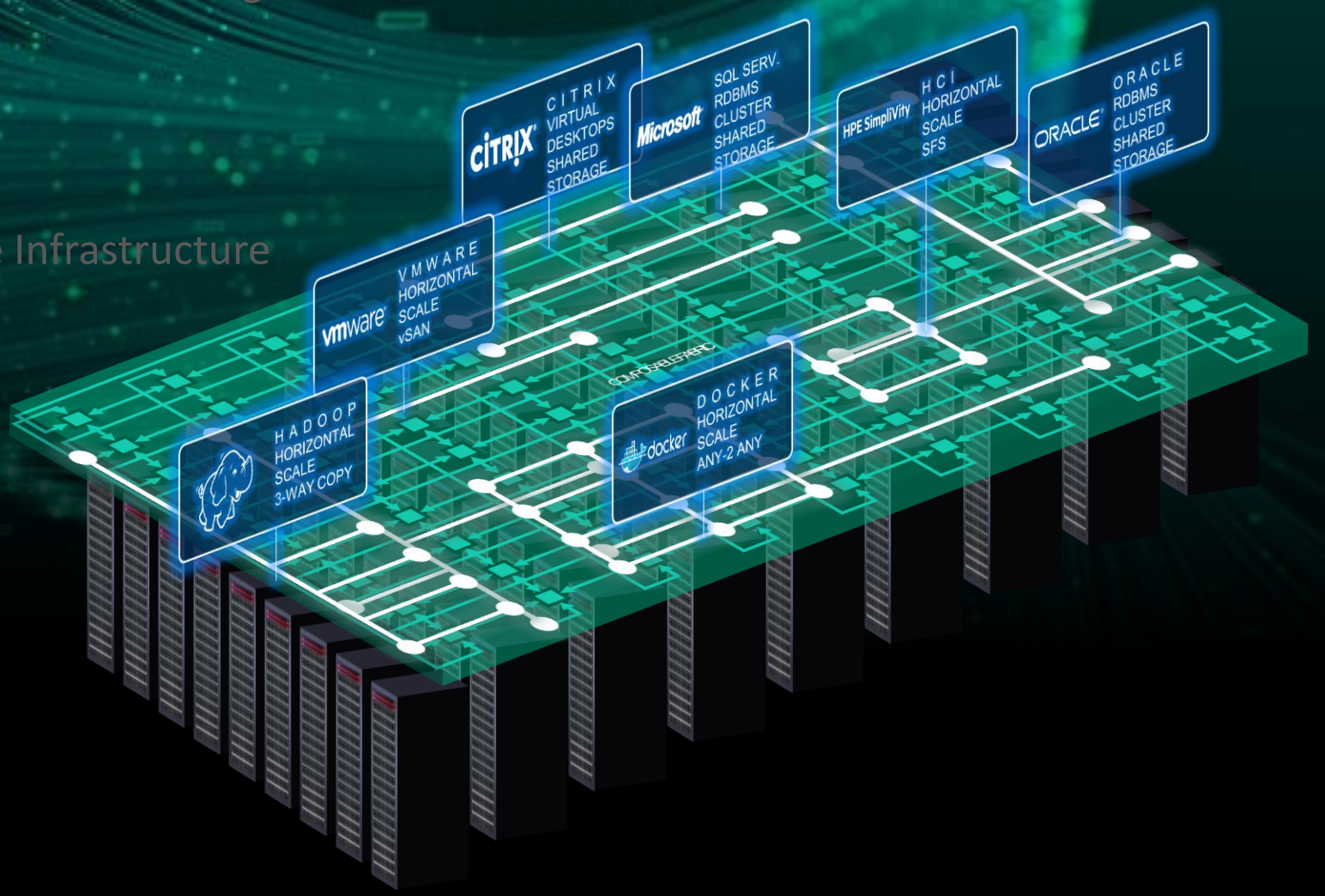
Software-defined Networking



Composability, Artificial Intelligence, and Hybrid IT Management

HPE OneSphere
Hybrid IT Management

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AI for the Data Center

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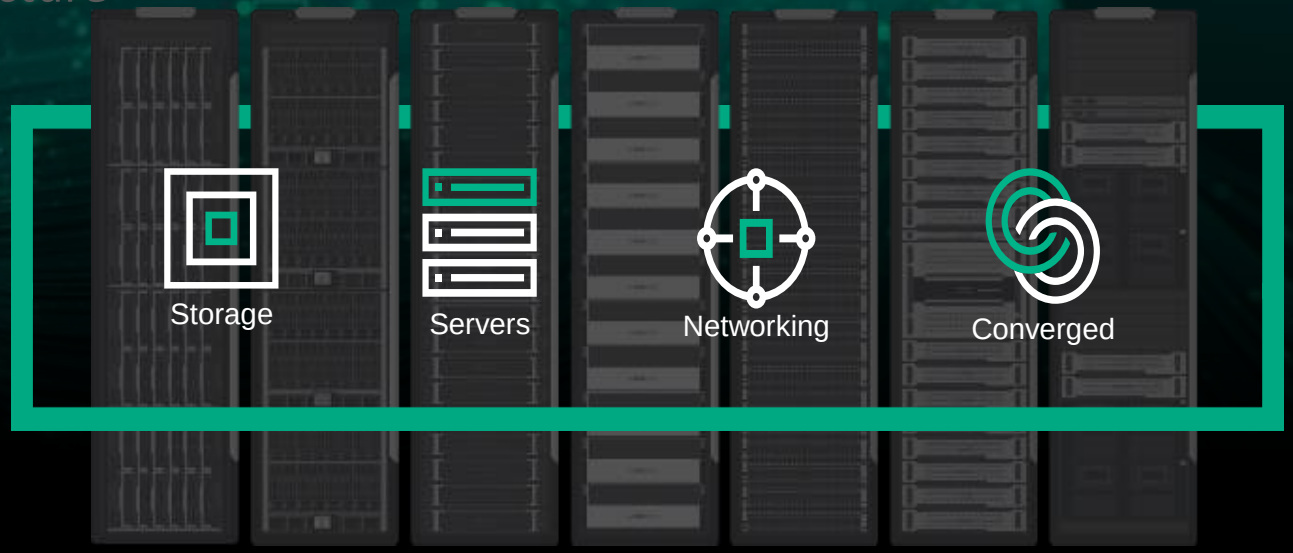
Software-defined Networking

AI for the Data Center



Composability, Artificial Intelligence, and Hybrid IT Management

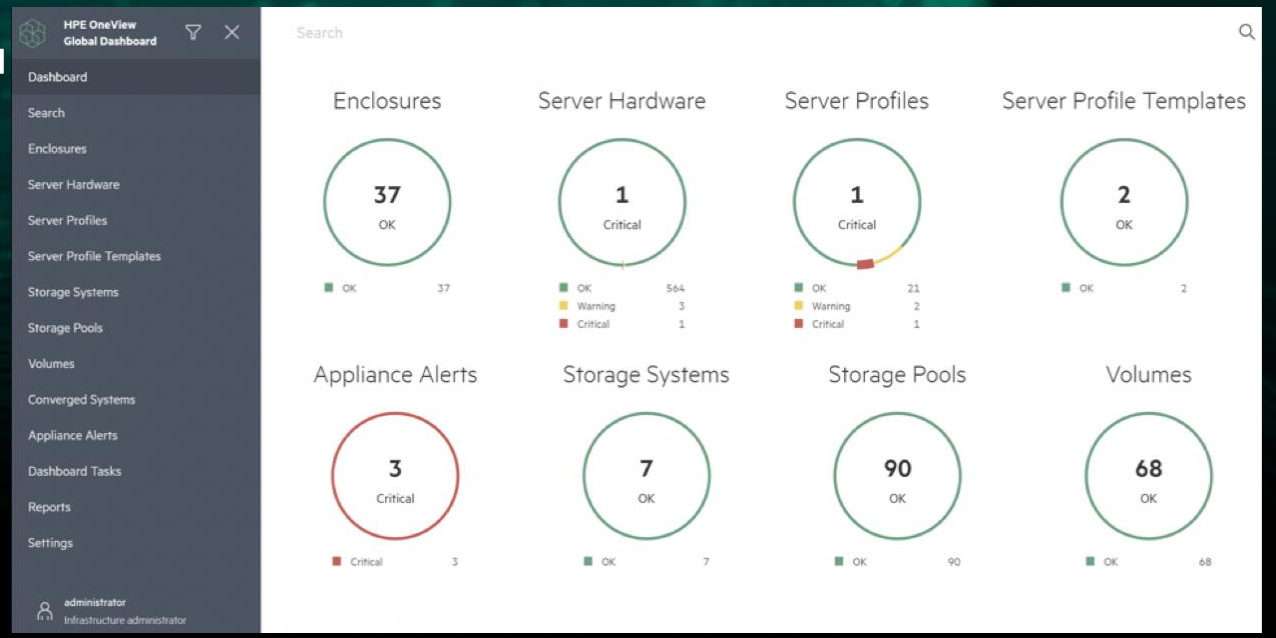
HPE OneSphere
Hybrid IT Management

HPE OneView
Composable Infrastructu

HPE InfoSight
AI for the Data Center

HPE Composable Fabric
Software-defined Networking

Unify management with HPE OneView Global Dashboard



Infrastructure-as-code
Automated infrastructure deployment

Composability, Artificial Intelligence, and Hybrid IT Management

HPE OneSphere
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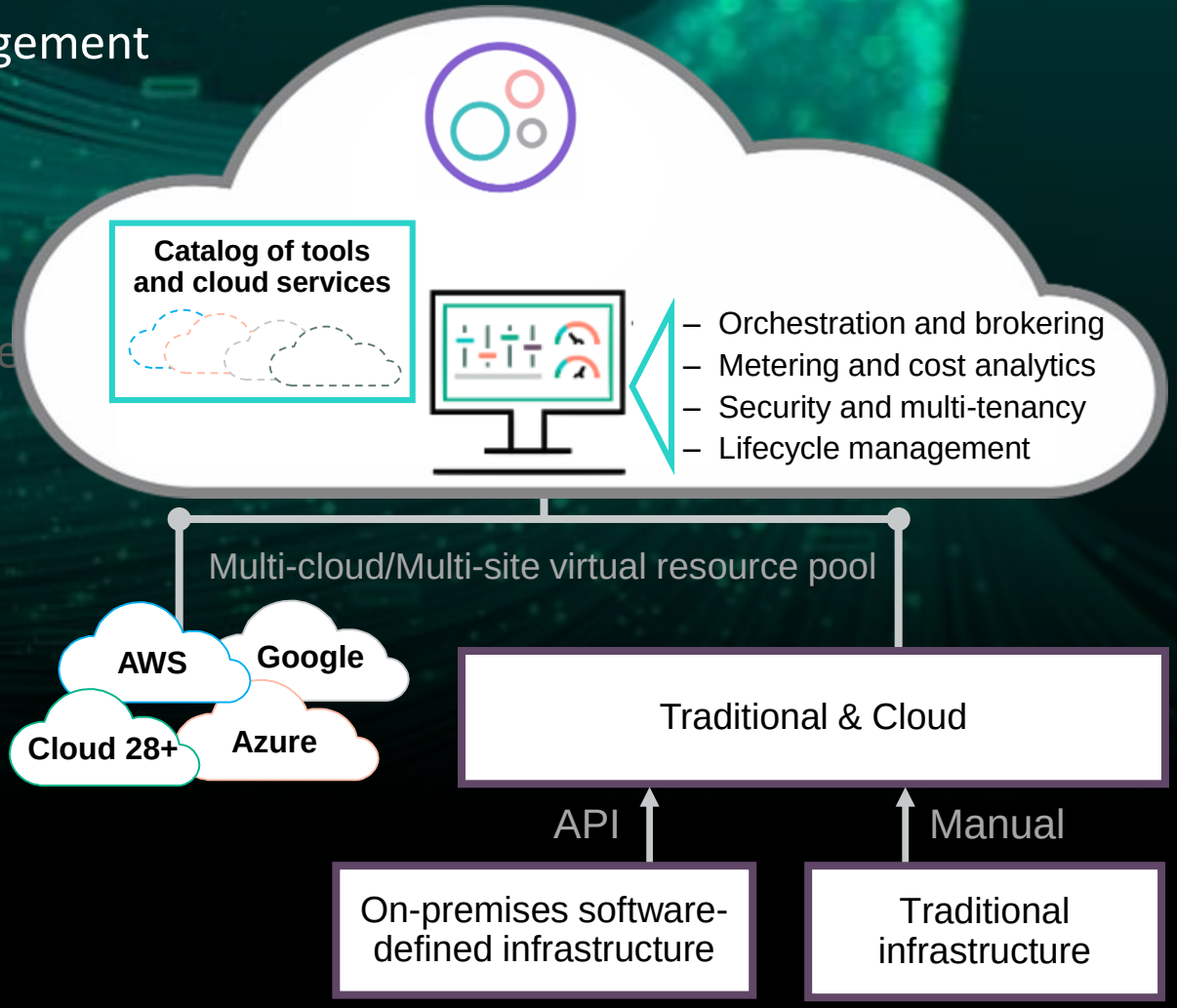
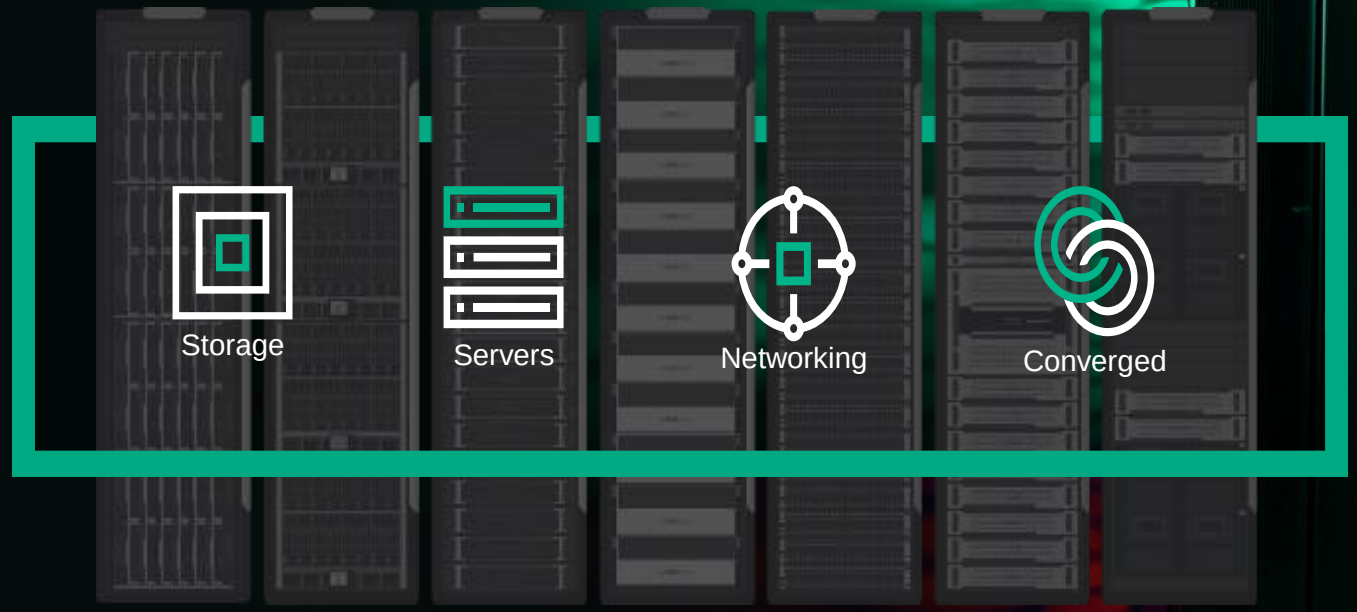


AI for the Data Center



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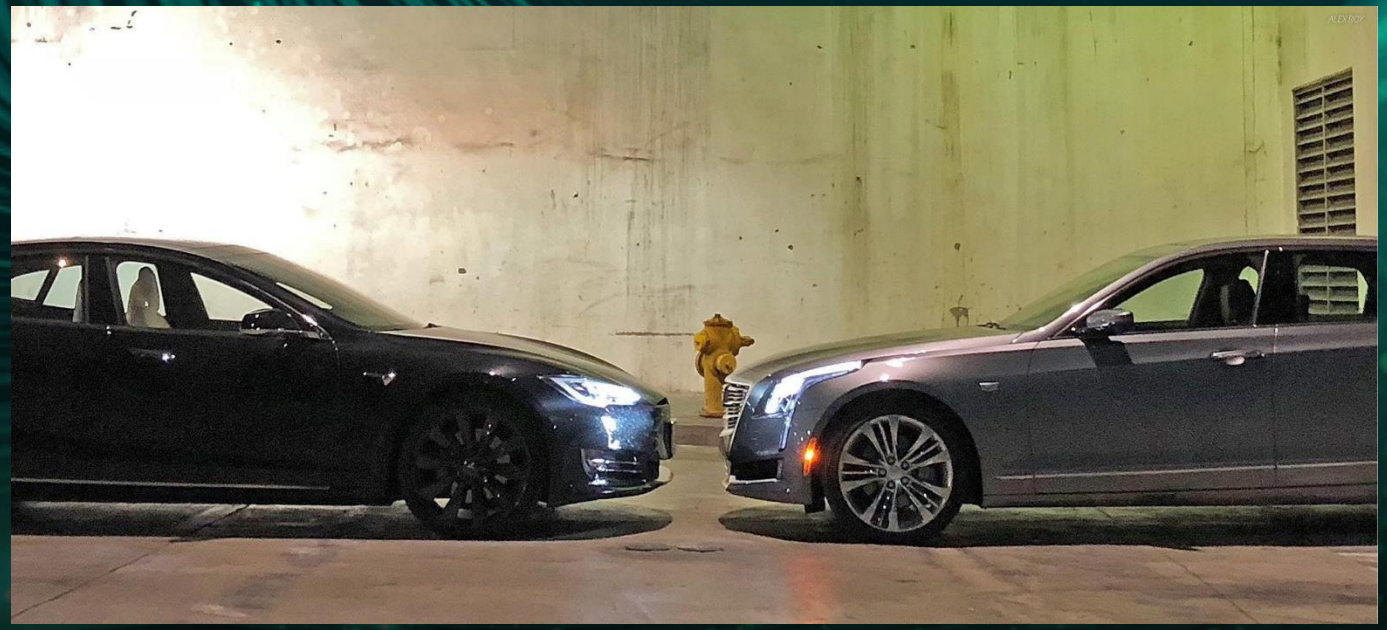
Semi-Autonomous Automobiles as an Example



Tesla Autopilot **vs.** **GM SuperCruise**

- Global learning / telemetry
- In-vehicle AI processing and dynamic response
- Attempts any/all roads with results collected globally (with uses OTA updates)

- Pre-programmed maps (major highways only for now)
- Programmed and in-car stored responses and behavior
- Only works on major highways that have been pre-mapped / pre-programmed (with OTA updates)

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HPE InfoSight – AI driven intelligence

Servers | **Storage**

Collecting and Analyzing Millions of Sensors per Second Across Servers & Storage

Customer Impact

Predictive Support Automation

Preemptive Recommendations

Proactive Management

Continuous Improvement

Cloud-Based AI Platform

Predictive Analytics Engine

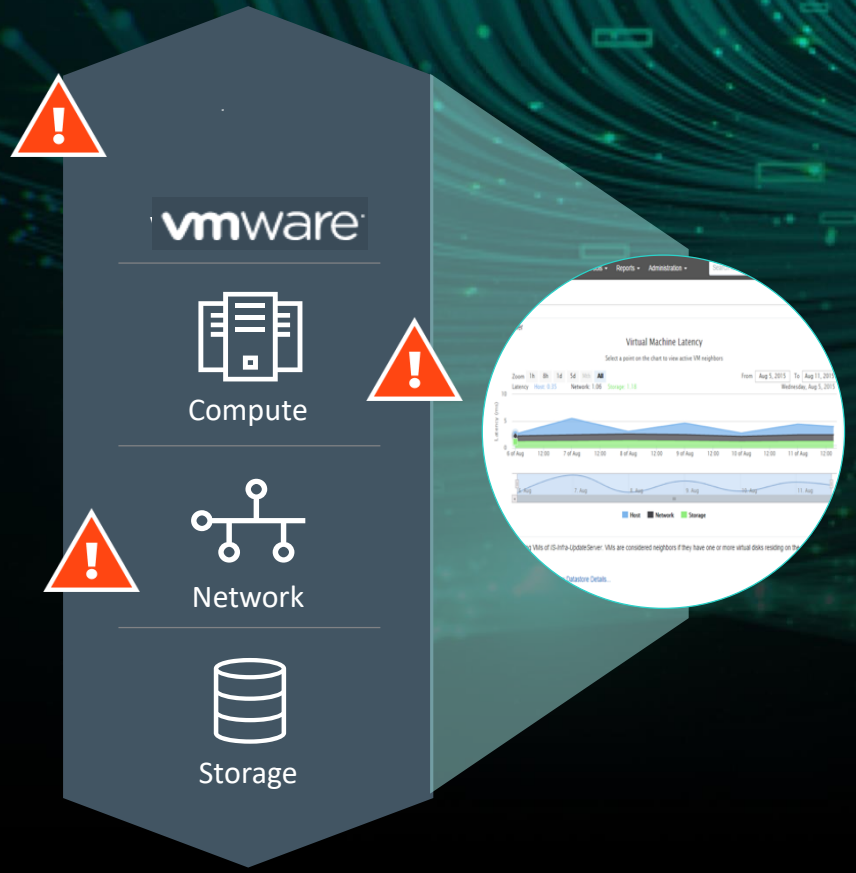
Global Learning

Recommendation Engine

Cross-Stack Telemetry

vmware | ORACLE | Microsoft SQL Server | Exchange

Cross-Stack Analytics: VMware Example



Noisy Neighbor

Determine if VMs are hogging System resources

Host & Memory Analytics

Visibility into host CPU and memory metrics

Latency Attribution

Identify root cause across host, storage, or SAN

Inactive VMs

Visibility into inactive VMs to repurpose/reclaim resources

Top Performing VMs

Visibility into Top 10 VMs by IOPs and Latency

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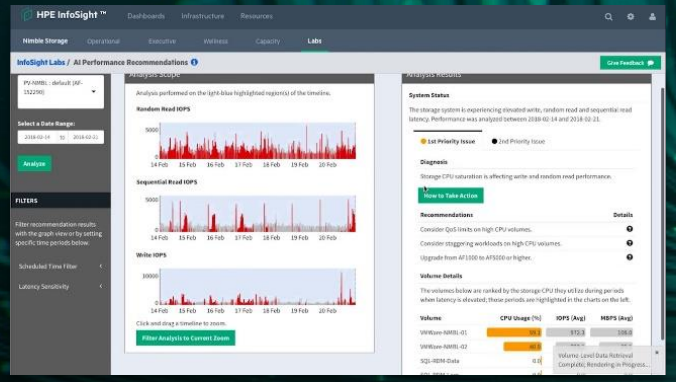
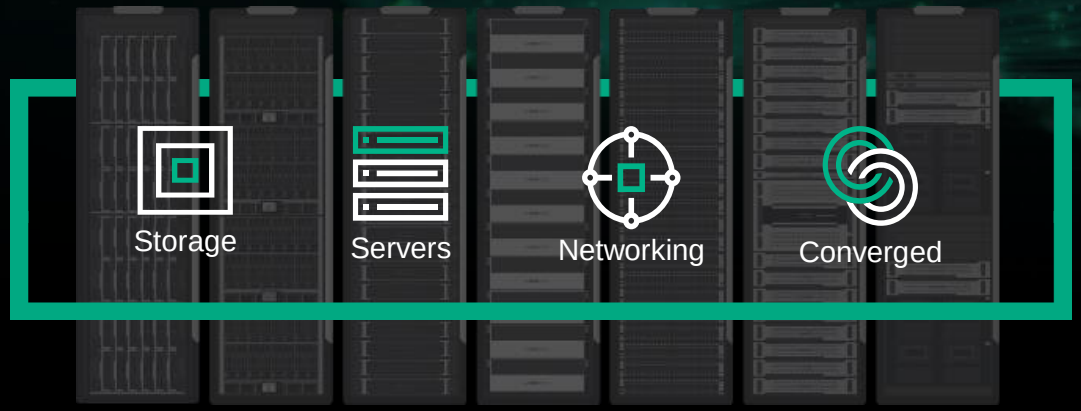
AI Sees and Predicts Behind the Scene

Customer Portal



- ADVANCED VISUALISATIONS
- DASHBOARDS
- BLACKLISTING
- MACHINE LEARNING
- GLOBAL LEARNING
- CASE AUTOMATION
- CLOUD-BASED ANALYTICS
- PRE-EMPTIVE RECOMMENDATIONS

AI for the Data Center



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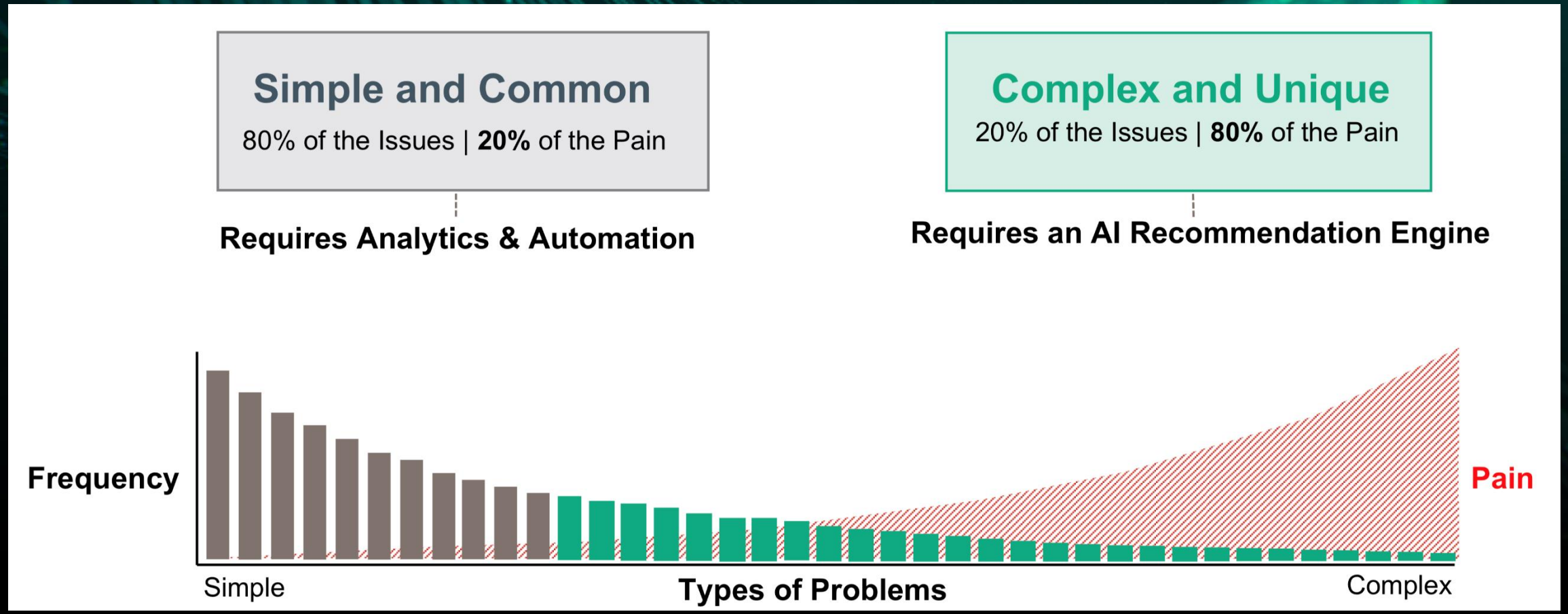
Capability Menu

Evolving to AI-Driven Operations, Resolution, Optimization

– Stop the End-less Fire Fighting, Log Analysis and Alert Mgmt.



Benefits Global Machine Learning and AI

Intelligence to make infrastructure autonomous

AI-Driven automation delivers up to **85%** improvement in IT efficiency[1]

Effortless management with up to **79%** lower storage operational expenses[2]

Transformed support with **86%** of issues automatically opened and resolved[3]

1. Analyst White paper by ESG “Assessing the financial impact of HPE InfoSight predictive analytics”, September 2017 hpe.com/us/en/resources/storage/assessing-impact-infosight.html
2.. Illustrates potential savings based on customer surveys. HPE does not provide financial advice.
3. HPE Business White paper “Redefining the standard for system availability”, August 2017 h20195.www2.hpe.com/v2/Getdocument.aspx?docname=a00018503ENW

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The Path to the Autonomous Data Center

Automation, Analytics and Artificial Intelligence

Composable, software-defined storage, compute, and networking infrastructure

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Thank you!

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