



35 YEARS OF TECHNOLOGY
EXCELLENCE

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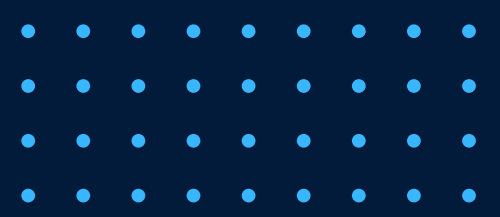
VMWARE ALTERNATIVES & MIGRATION METHODS

ONE CON 2025

managing
complexity
delivering

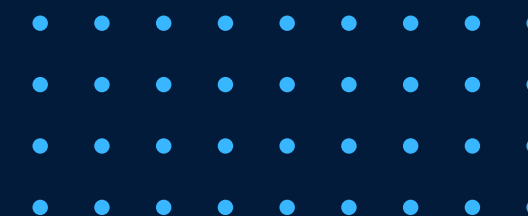
simplicity





Thank You for Joining!

This session explores three alternatives to VMware, including Hyper-V, Nutanix, and HPE VM Essentials, features, licensing models, and solution architecture. The session will also discuss and demonstrate migration from VMware to the alternative hypervisors.



INTRODUCTION

John Bachert

Cloud, Compute & Storage Practice
Manager





OUR PRODUCTS & SERVICES



Cloud Services

Scalable solutions for
modern business needs.



Software Solutions

Custom - developed
for diverse business
needs.



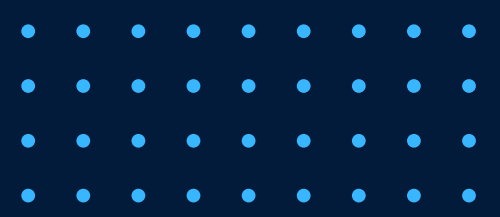
Enterprise Hardware

High - performance
devices for industrial
applications.



Integration Support

Seamless
integration with
existing systems.



Agenda

- Discuss Each Hypervisor (Features, Architecture, Licensing)
 - Hyper - V
 - Nutanix
 - VM Essentials
- Demonstrate Migration Methods

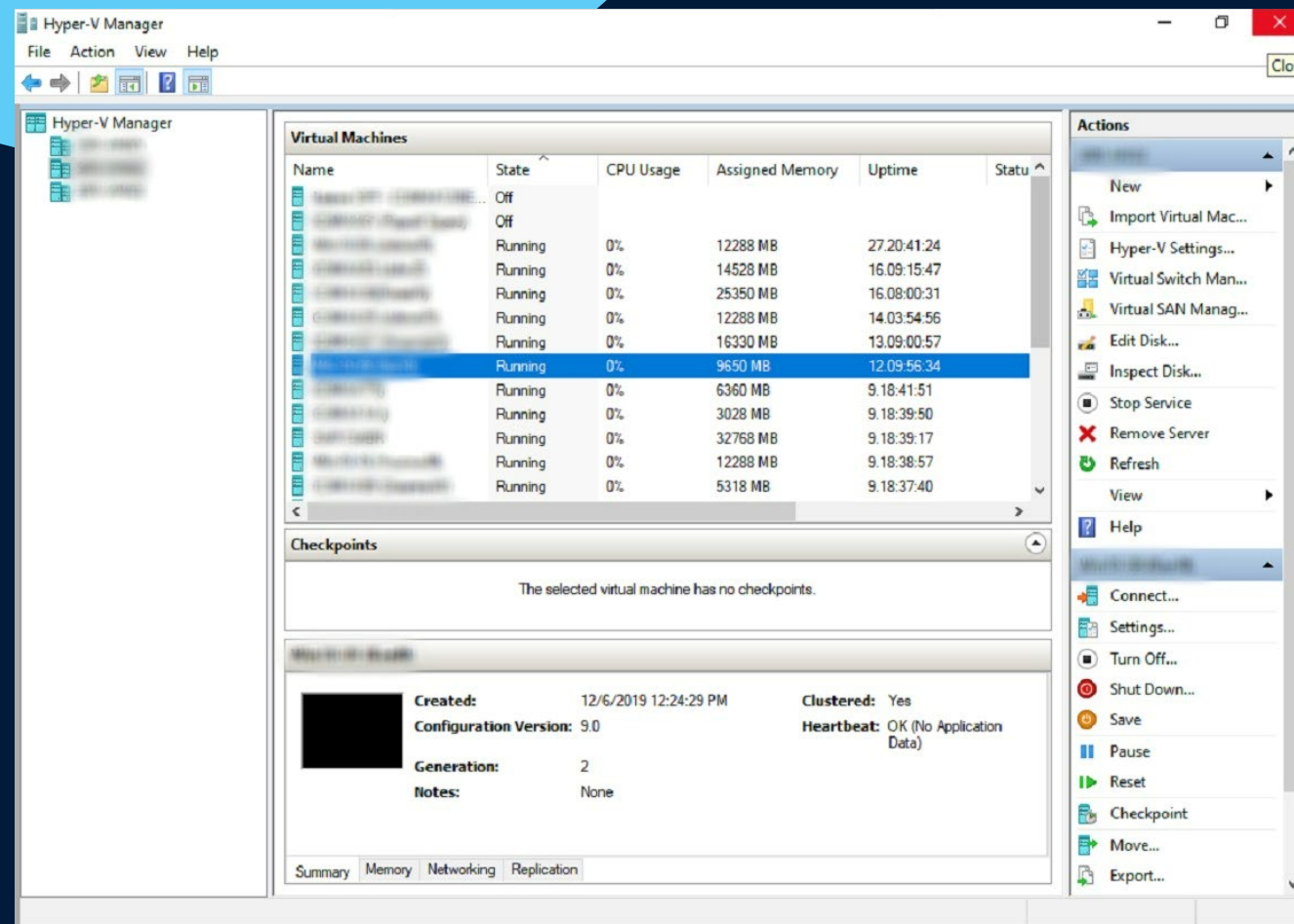


Hyper -V

Features



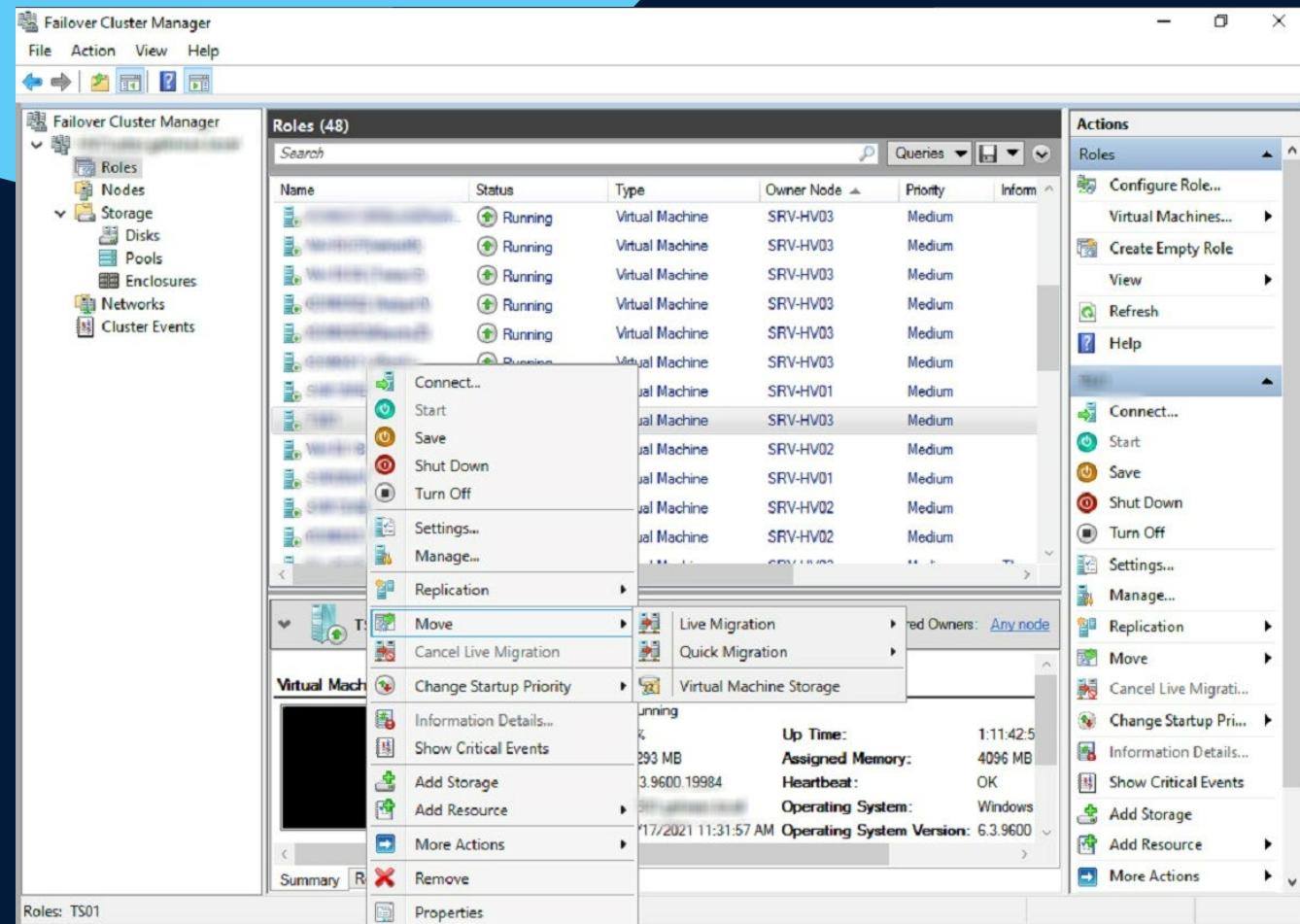
- Hyper -V Manager GUI based management tool
- System Center Virtual Machine Manager (SCVMM) – for more complex environments
- Multi -node via Failover Clustering (HA)
- Live Migration
- Storage Live Migration
 - Cross -version Live Migration (upgrades)
- VM Checkpoints (snapshots)
- Virtual Switches
- Cross -version Live Migration (upgrades)



Architecture



- Standalone Host (small environment)
- Multi - node Cluster utilizing Failover Clustering
 - 3-tier (Compute, Storage, Networking)
- Wide hardware support



Licensing



- Included with Windows Server Licensing
 - Based on processor core
 - Standard allows you to run limited number of VMs (2 each time you license host core)
 - Datacenter allows you to run unlimited VMs
- System Center Virtual Machine Manager (SCVMM) requires System Center License

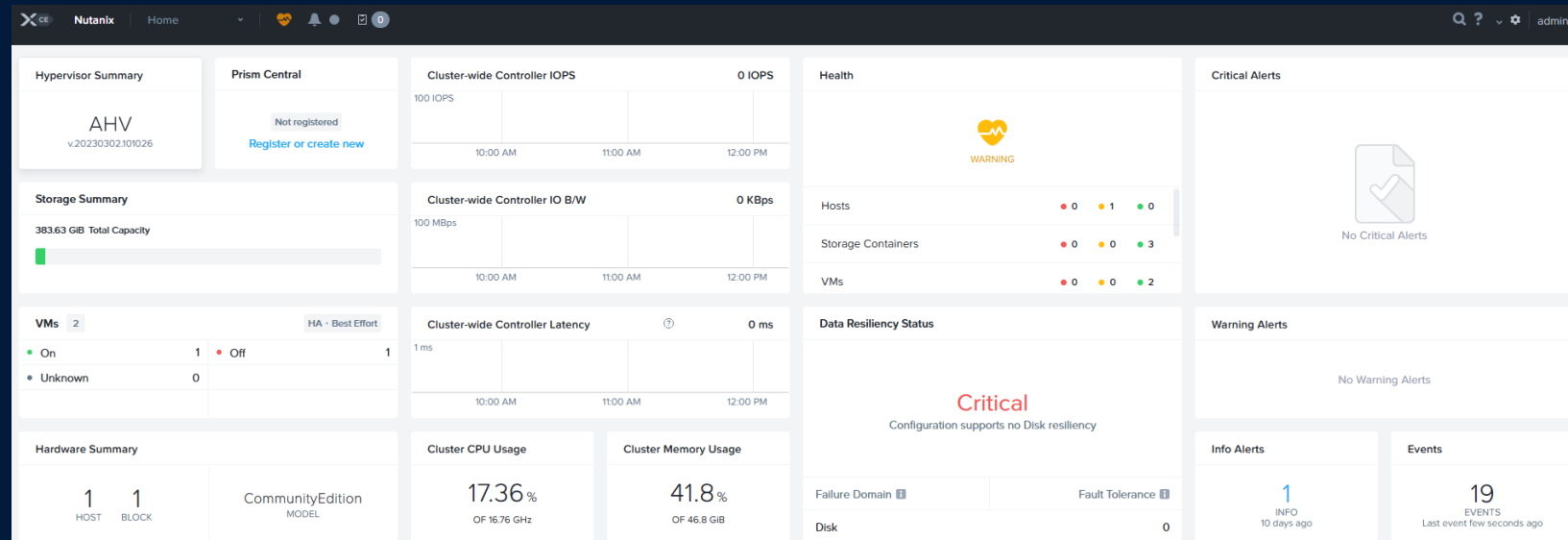


Nutanix

Features



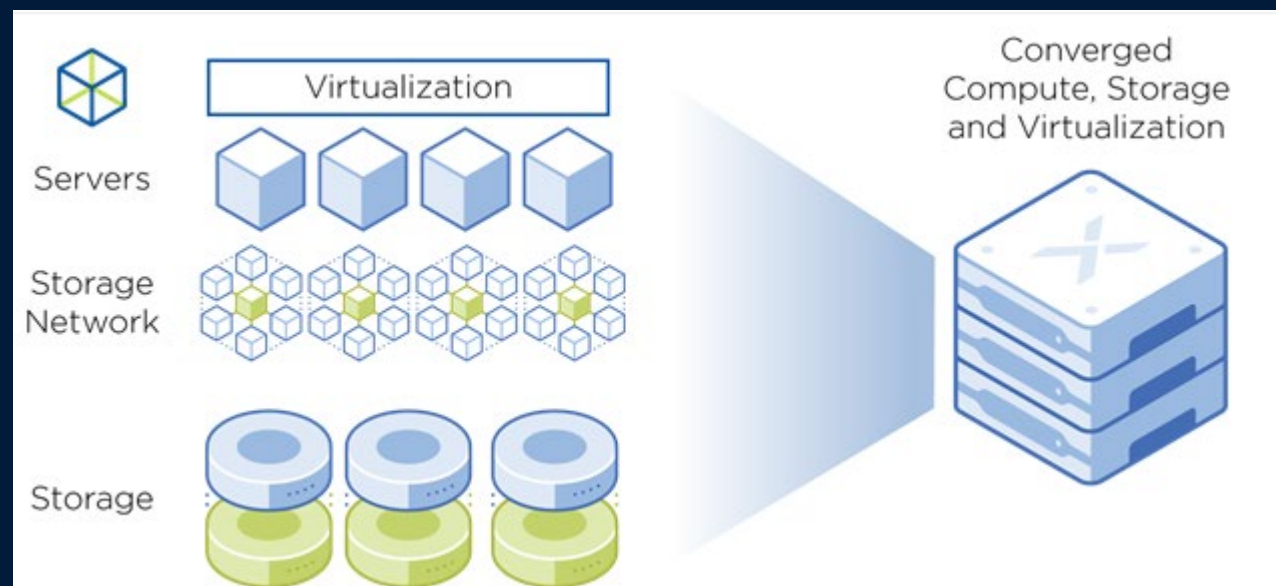
- Management via Prism
- Prism Central to manage multi - cluster
- Integrated with Nutanix HCI
- AHV Hypervisor (or VMware)
- VM high availability (HA)
- VM live migration
- VM snapshots
- VM replication
- Data - at - rest encryption, VM isolation, compliance tools
- Scales linearly with Nutanix HCI nodes



Architecture



- Hyperconverged Infrastructure Nodes
 - Compute , Storage, Networking, and Virtualization
- Cluster
 - Three or more nodes
- Distributed Storage Fabric
 - Software defined storage across all nodes
 - Data reduction – deduplication, compression, erasure coding
- Hardware Platform Vendors
 - Nutanix NX appliances
 - HPE
 - Cisco
 - Lenovo
 - others



Licensing



- Nutanix Cloud Infrastructure
 - Starter
 - Pro
 - Ultimate

NCI Software Editions

<https://www.nutanix.com/products/cloud-platform/software-options>

	STARTER	PRO	ULTIMATE
	Core set of software functionality	Rich data services, resilience and management features	The full suite of Nutanix software capabilities to tackle complex infrastructure challenges
Ideal For	Small-scale deployments with a limited set of workloads (on-prem only)	Running multiple applications or large-scale single workload deployments (on-prem or in public clouds)	Multi-site deployments and advanced security requirements (on-prem or in public clouds)
Enterprise Data Services			
	STARTER	PRO	ULTIMATE
Max Cluster Size	12	>12*	>12*
Heterogeneous Clusters	✓	✓	✓
VM-centric Snapshots & Clones	✓	✓	✓
Data Tiering	✓	✓	✓
Online Cluster Grow/Shrink	✓	✓	✓
Data Path Redundancy	✓	✓	✓

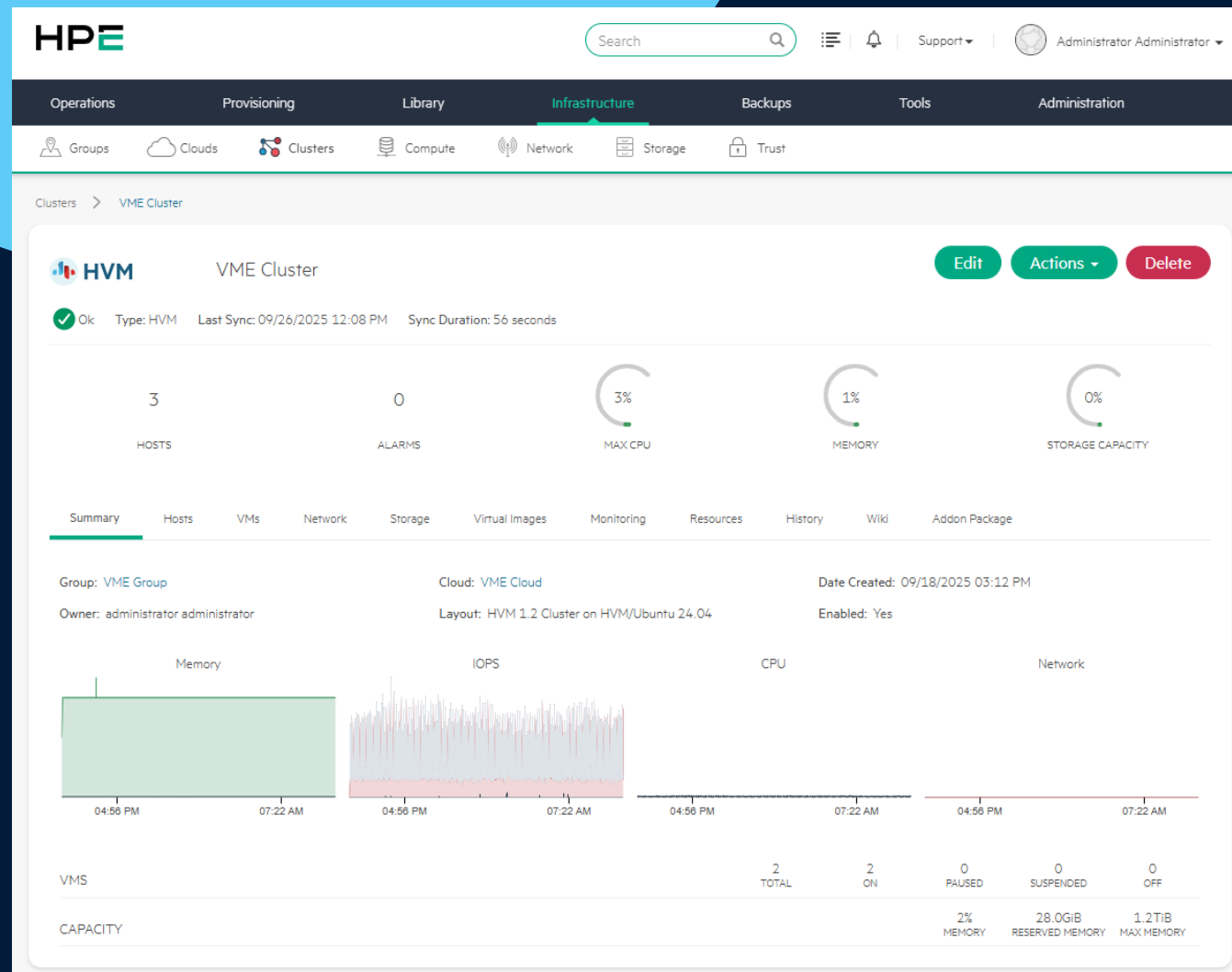


VM Essentials

Features



- Morpheus Management
- KVM based Hypervisor
- VM High Availability
- VM Live Migration
- Storage Live Migration
- VM Snapshots
- Distributed Workload Placement
- Support for local storage, external storage (SAN)
- Virtual Switch (Open vSwitch – OvS)



Architecture



- Standalone host
- Cluster with shared storage
 - Three or more nodes
- Compatibility Matrix
 - List of supported servers, storage, ISV, guest OS

Compatibility Matrix for HPE Morpheus VM Essentials Software

This document contains the list of hardware and software that has been tested and confirmed to support HPE Morpheus VM Essentials Software and HVM Clusters at scale. Items not included in this list may be compatible but are untested. Using untested hardware or software may limit the scope of support services available from HPE support teams.

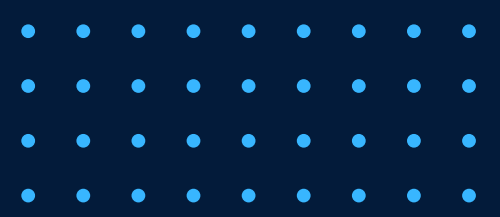
New hardware and software are continually being tested and certified. This document will be updated over time as new hardware SKUs are confirmed compatible and performant at scale.

Hardware Family	Platform Type	Hardware SKU	Comments
HPE ProLiant	AMD 2 RU server	HPE ProLiant DL145 Gen 11	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL320 Gen 12	
HPE ProLiant	AMD 1 RU server	HPE ProLiant DL325 Gen 12	
HPE ProLiant	AMD 2 RU server	HPE ProLiant DL345 Gen 12	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 9	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 10	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 10+	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 11	
HPE ProLiant	Intel 1 RU server	HPE ProLiant DL360 Gen 12	
HPE ProLiant	AMD 1 RU server	HPE ProLiant DL325 Gen 11	
HPE ProLiant	AMD 1 RU server	HPE ProLiant DL365 Gen 11	
HPE ProLiant	AMD 2 RU server	HPE ProLiant DL385 Gen 11	
HPE ProLiant	AMD 2 RU server	HPE ProLiant DL345 Gen 11	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL340 Gen 12	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL380 Gen 9	
HPE ProLiant	Intel 2 RU server	HPE ProLiant DL380 Gen 10	

Licensing



- Licensed per server socket
- Annual subscription
- Currently \$600 per socket/per year



Which is right for me?

It Depends....

- Assess Environment (IntegraOne can help with this!)
- Some Considerations
 - Workload Compatibility
 - Appliance VMs (what hypervisors do they support?)
 - Management Tools and Integration
 - Backup Software (what hypervisors do they support?)
 - Monitoring
 - DR
 - Automation Tools
 - Migration Complexity and Downtime
 - Different clients have different tolerances



Migration Demo



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QUESTIONS & ANSWERS



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attending
today!**

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