

It's a Virtual World

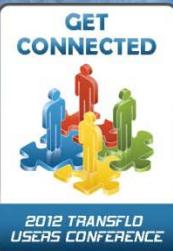
Presented by: Brian Kirkley & Buddy Schwenk

**GET
CONNECTED**

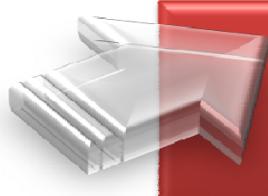


**2012 TRANSFLO
USERS CONFERENCE**



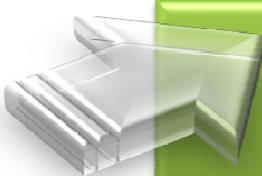


Introductions



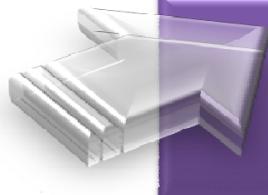
Brian Kirkley

- Systems Administrator for Pegasus Transtech
- Responsibilities include, design and maintenance of all Pegasus infrastructure.
- I have been working with “Virtualization” solutions for over 7 years.



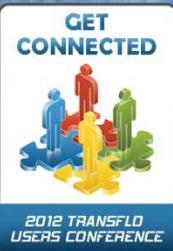
Buddy Schwenk

- CDW Solution Architect

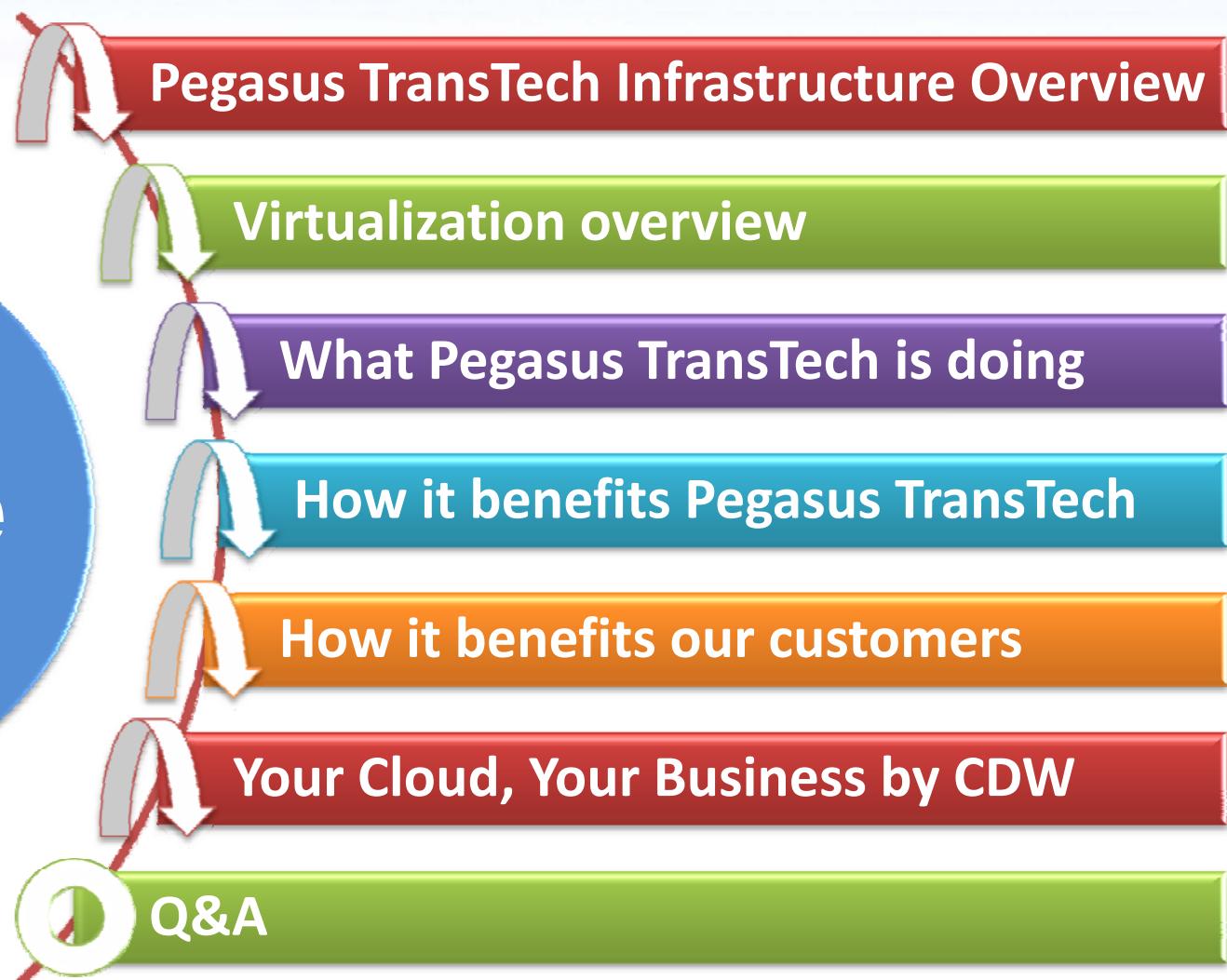


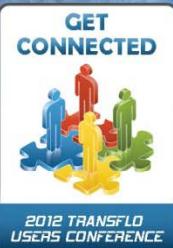
How about you?

- How many of you are using virtualization already?
- How many of you are looking to implement virtualization in your company?
- What vendors are you using or considering?

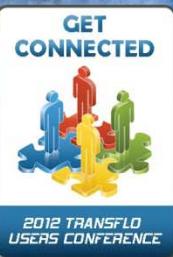


Outline





PEGASUS TRANSTECH

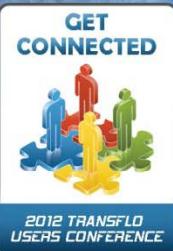


Servers

Virtualization

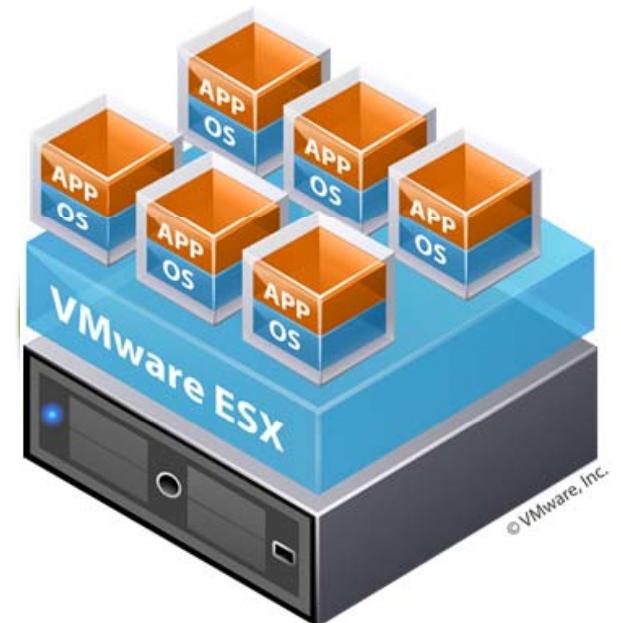
Storage

Network



Server Virtualization

- ✓ Over 90% of our servers are virtual, you most likely will never be 100% virtual.
 - More reliable environment, that is easier to administer
 - The more systems we virtualize, the more functionalities benefit.
- ✓ VMware vSphere 4.1 in all environments, with a road map for upgrading to vSphere 5
 - Access to the latest improvements, support, and security.
- ✓ 16 vSphere hosts running 109 servers, with the most redundancy in our production environments.
 - Density or resources, reducing cost of hardware, power, and rack space.
 - No single server failure will cause loss of systems
- ✓ HA (High Availability) and DRS (Distributed Resource Scheduler).
 - Increased uptime, with automatic failover, and maximized resource utilization.
 - Availability of systems, via redundant hosts.
 - Improved performance by balancing resources.





Server Virtualization

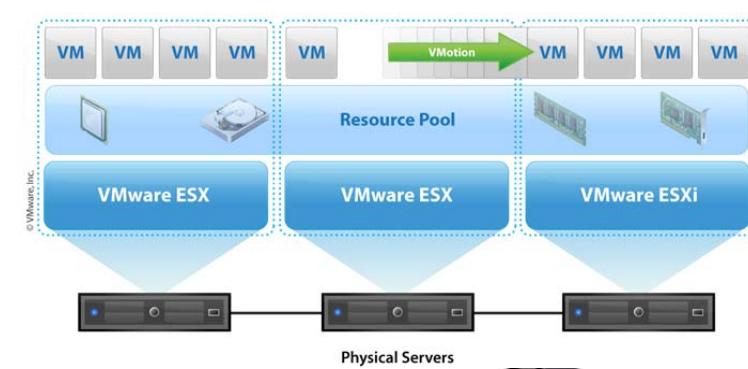
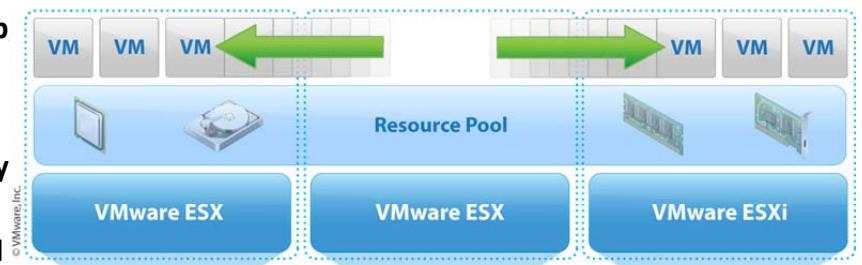
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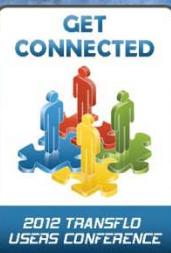
- ✓ VMware vSphere 4.1 in all environments, with a road map for up
 - Access to the latest improvements, support, and security.

- ✓ 16 vSphere hosts running 100 servers, with the most redundancy environments.
 - Density or resources, reducing cost of hardware, power, and
 - No single server failure will cause loss of systems

- ✓ HA (High Availability) and DRS (Distributed Resource Scheduler).
 - Increased uptime, with automatic failover, and maximized re
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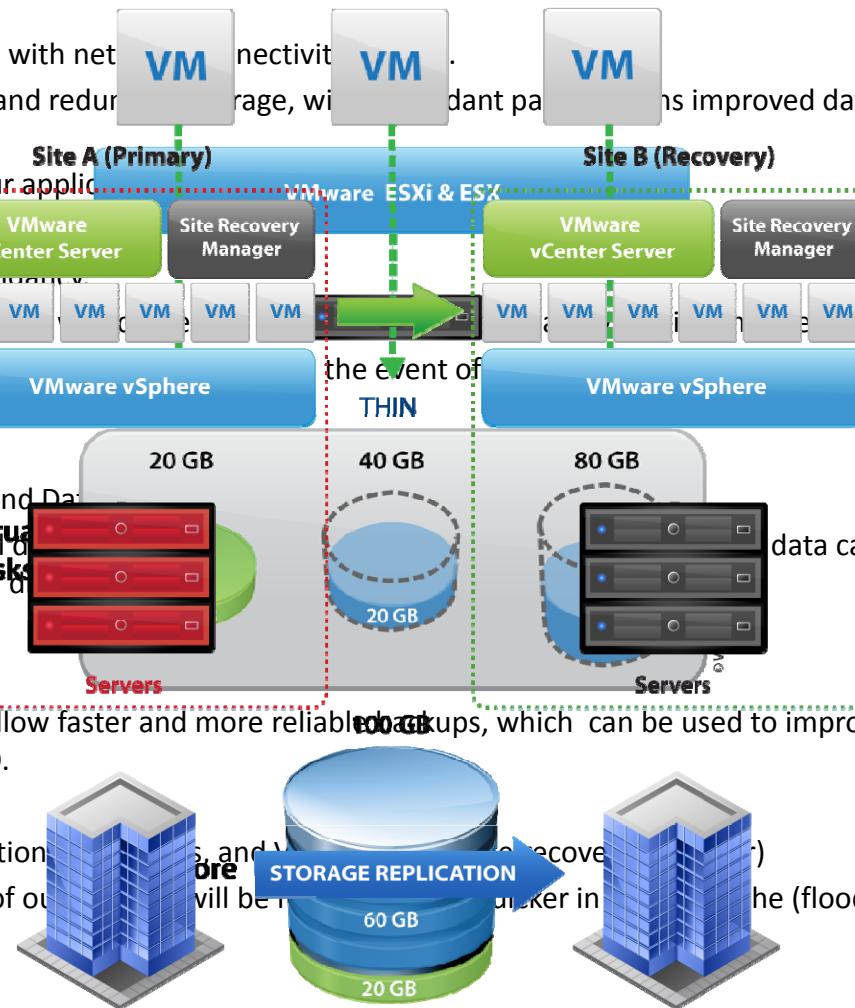
HA →
DRS ←

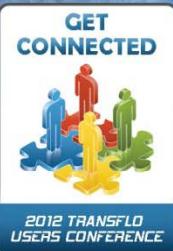




Storage Virtualization

- ✓ NAS - Netapp filers with network connectivity.
 - Centralized and redundant storage, with redundant paths improved data availability
 - Access to our applications
- ✓ Clustered failover
 - No single point of failure
 - Significant reduction in failure
- ✓ Thin Provisioning and Data Deduplication
 - Less physical disk space required on the same disk
- ✓ Snapshot backups
 - Snapshots allow faster and more reliable backups, which can be used to improve RPO and reduces RTO.
- ✓ Snapmirror replication
 - Availability of our data will be maintained in a disaster recovery location (flood, fire, local evacuation)

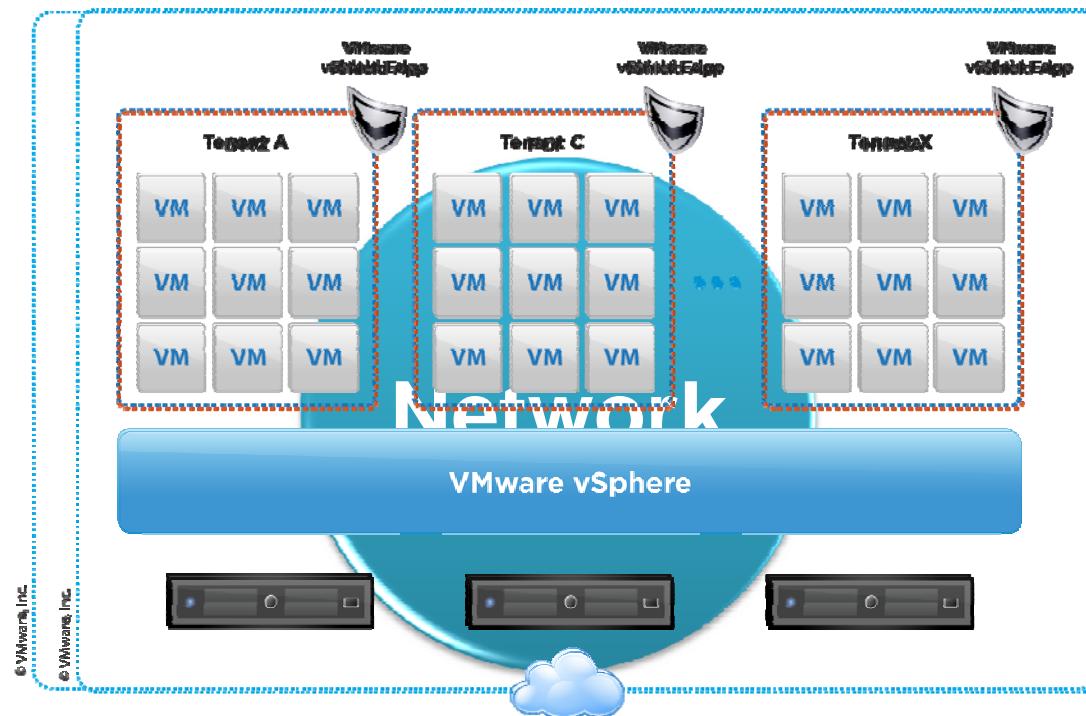




Network Virtualization

✓ vSwitches, VLAN's, and port trunking

- vSwitches and Distributed vSwitches, allow security and communication control at the vSphere level.
- Reduces the number of device required to provide the same networks (NIC's, switches, etc.)
- Maximizes the utilization of the network gear.
- Less hardware means less hops, which means lower latency and faster performance





VMware Corporate Overview

Your Cloud, Your Business



Please welcome **Buddy Schwenk!**



VMWARE CORPORATE OVERVIEW

YOUR CLOUD, YOUR BUSINESS

800.800.4239 | CDW.com/peoplewhogetit



AGENDA

- Corporate Overview
- Cloud Infrastructure & Management
- Cloud Application Platform
- End User Computing
- The Journey to Your Cloud

OUR MISSION



**Enable Our Customers By
Simplifying and Automating IT in the Cloud Era**



Enabling Business Transformation thru IT Transformation

THE SHIFTING LANDSCAPE



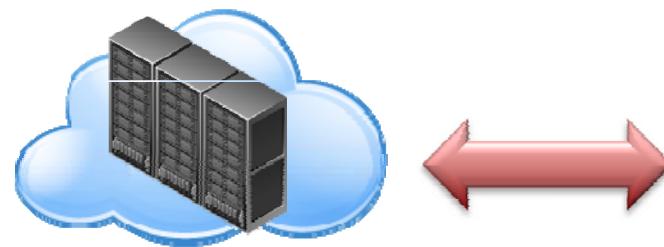
A DIFFERENT PERSPECTIVE REQUIRED



OUR FOCUS



A More Flexible,
Scalable,
Efficient
Infrastructure
for All Apps



Existing Datacenters

Public Cloud Services

OUR FOCUS



**Faster
Time-to-Market
for Modern
Applications**



**A More Flexible,
Scalable,
Efficient
Infrastructure
for All Apps**



Existing Datacenters



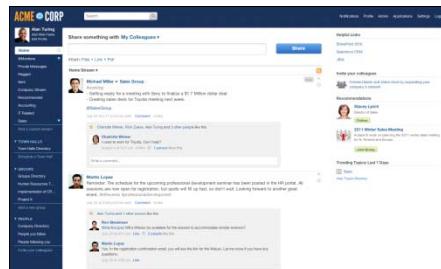
Public Cloud Services

OUR FOCUS

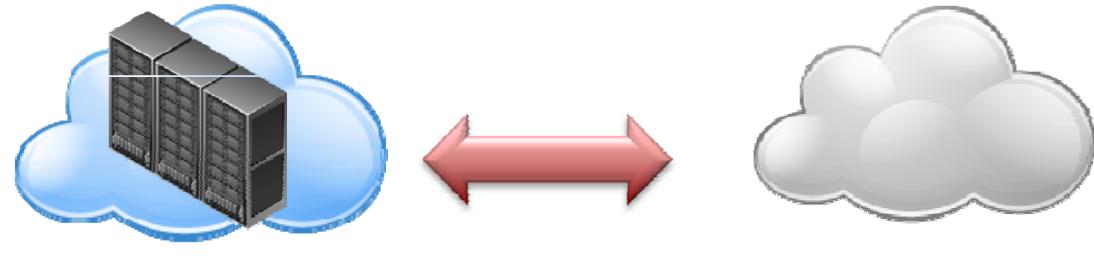
**Empowered,
Secure Mobile
Workforce**



**Faster
Time-to-Market
for Modern
Applications**



**A More Flexible,
Scalable,
Efficient
Infrastructure
for All Apps**



OUR FOCUS



End-User Computing

Cloud Application Platform

Cloud Infrastructure & Management

Existing Datacenters

Public Cloud Services



CLOUD INFRASTRUCTURE & MANAGEMENT



EMBRACING THE CLOUD ERA



1. Reduce the Complexity

to simplify operations and maintenance



2. Dramatically Lower Costs

to redirect investment into value-add opportunities



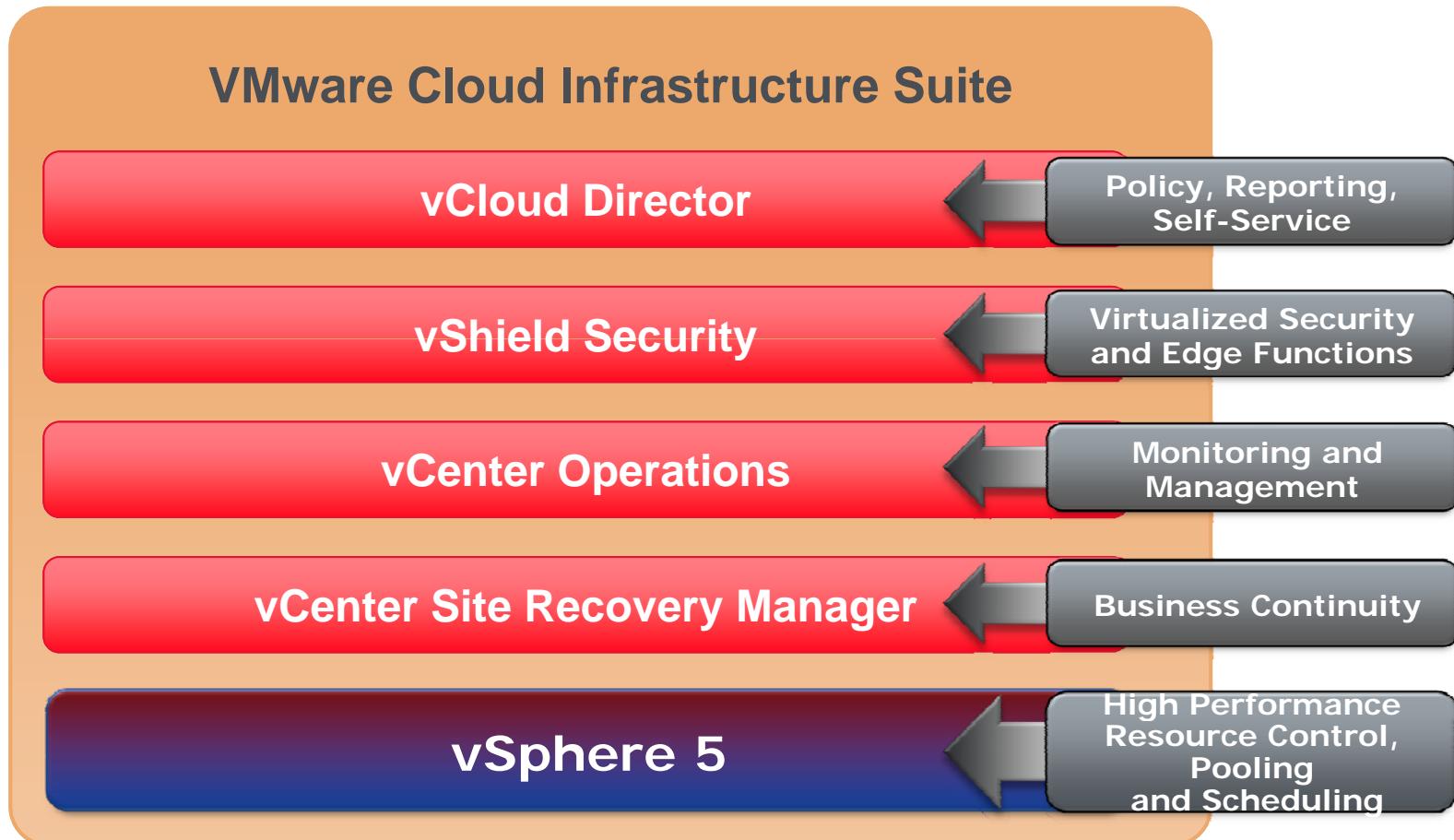
3. Enable Flexible, Agile IT Service Delivery

to meet and anticipate the needs of the business



Drive IT Agility to Increase Business Value

THE FIRST COMPREHENSIVE CLOUD INFRASTRUCTURE SUITE



VMWARE'S APPROACH: MORE AUTOMATION THAN MANAGEMENT



Embedded and Integrated Intelligence

Simplifies Management by Increasing Automation

Convergence

Brings Teams and Processes Together

Business-Level Metrics

Visibility and Control, to Run IT Like a Business

IT as a Service



CLOUD APPLICATION PLATFORM



THE CHANGING LANDSCAPE OF APPLICATIONS



nodeJS

New Application Types

- Mobile, SaaS, social
- Apps released early and often



Data Intensive

- Web orientation drives exponential data volumes
- Emerging requirements: *elasticity, multi-cloud*



Deployed on Virtual and Cloud Infrastructure

- vSphere and non-vSphere based





END-USER COMPUTING



VMWARE MOBILITY PLATFORM FOR THE POST-PC ERA



SIMPLIFY

MANAGE

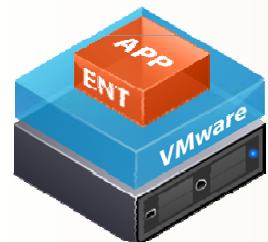
CONNECT



Desktop Service



App Catalog Service



Data Service

Universal Services Manager



Users, Apps,
Data Policies

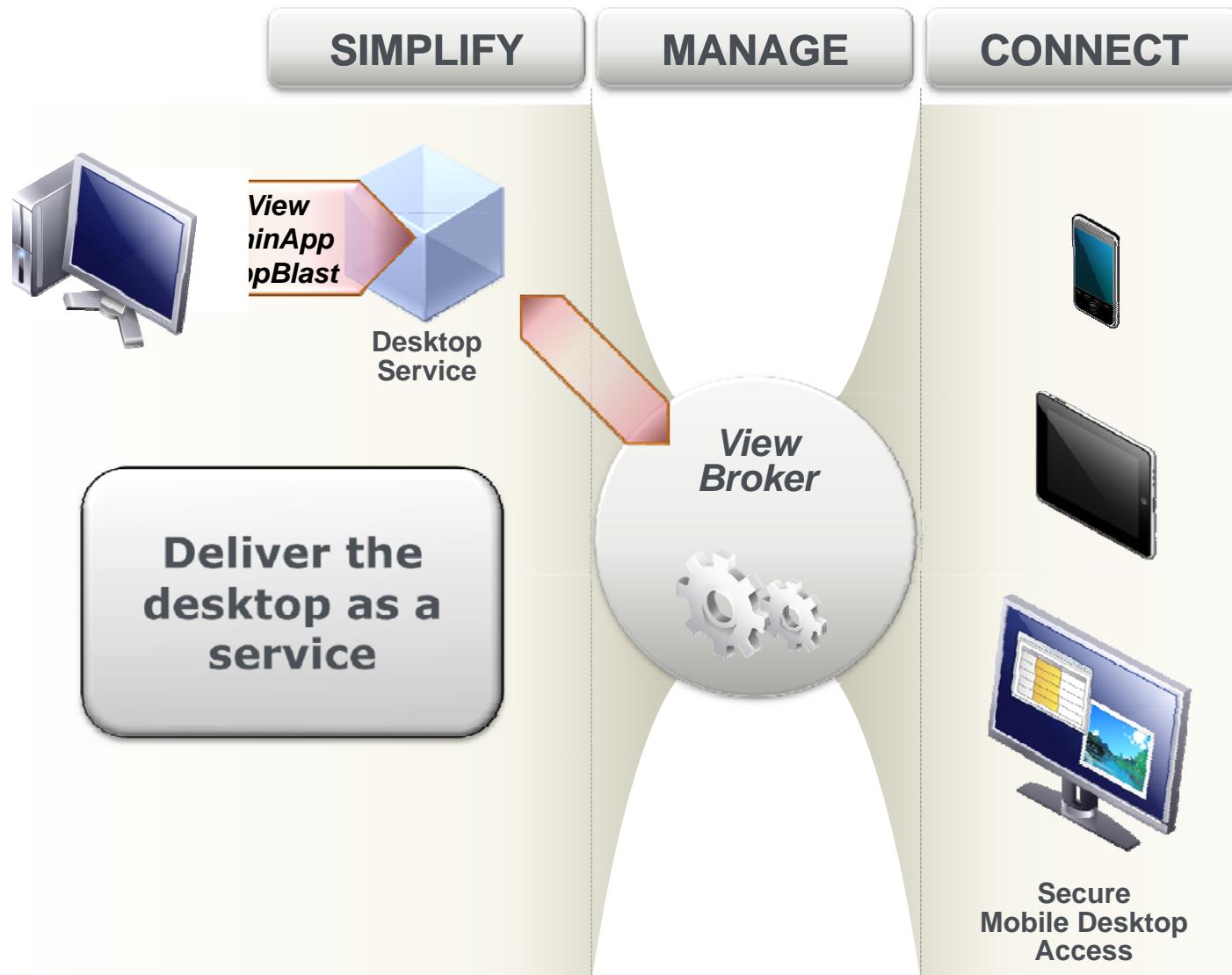


End Users



Secure
Universal
Access

VMWARE DESKTOP PLATFORM



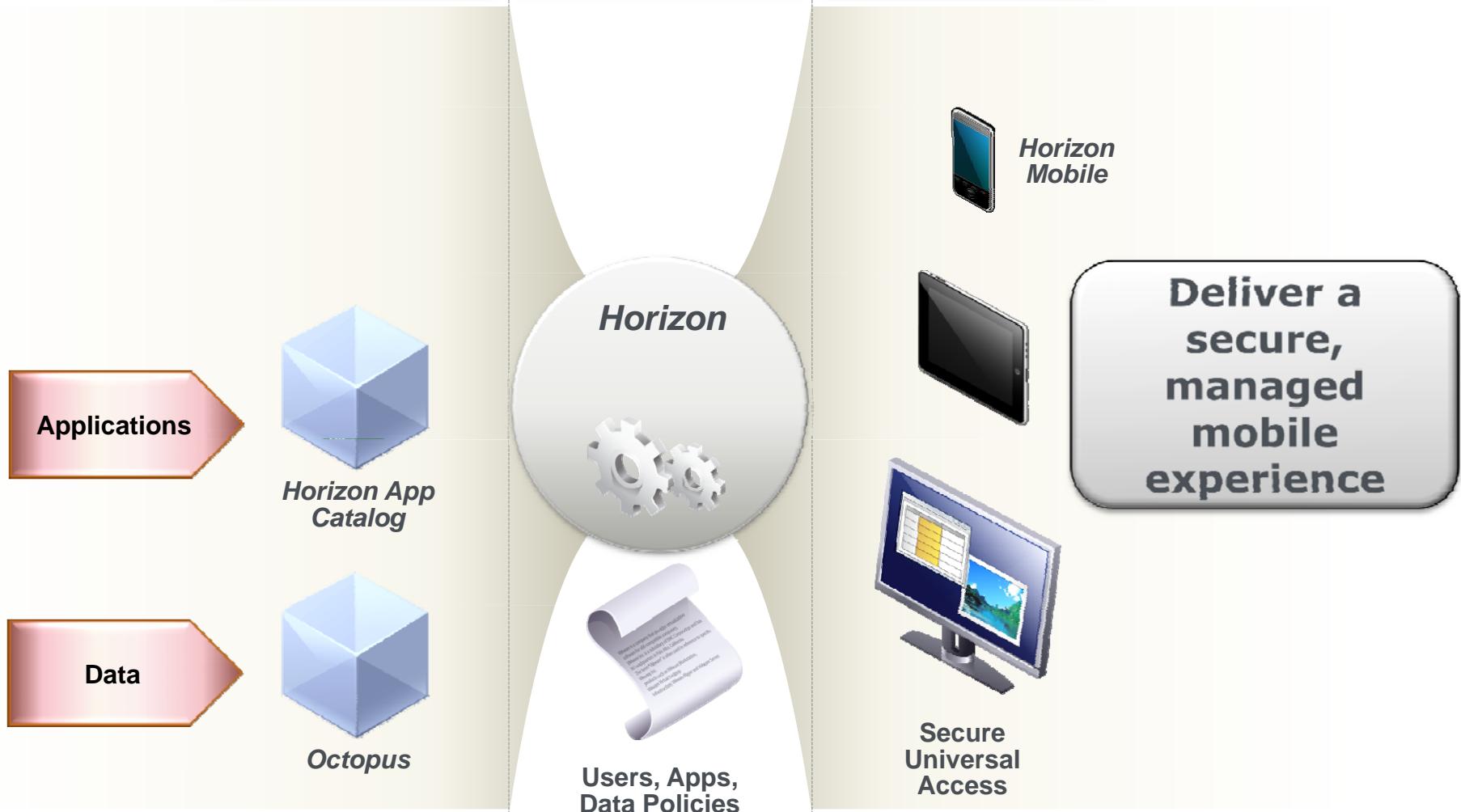
VMWARE MOBILITY PLATFORM



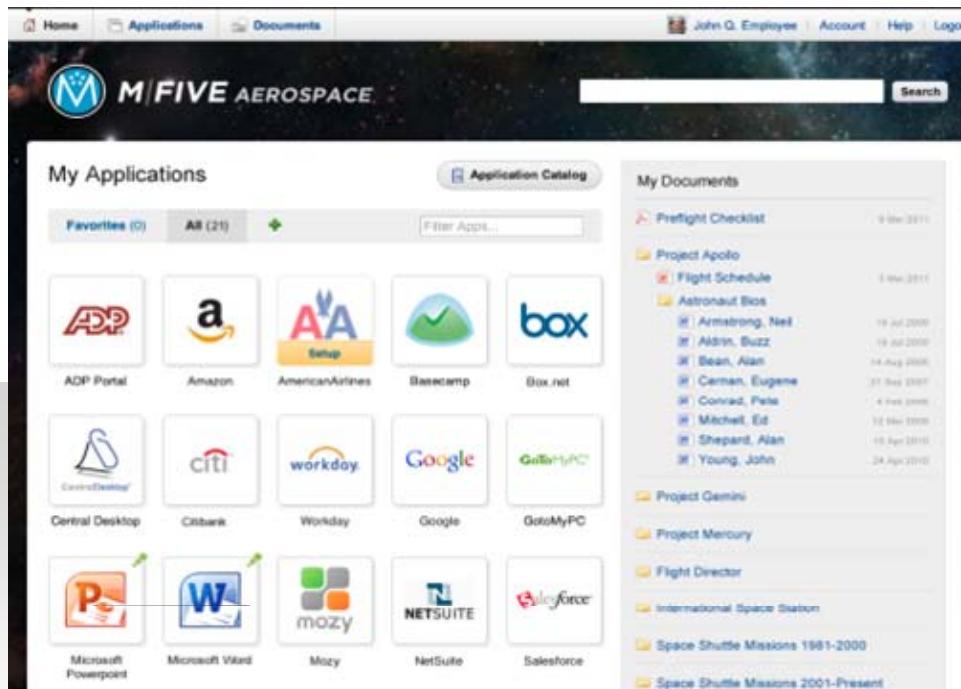
SIMPLIFY

MANAGE

CONNECT



SIMPLIFIED USER EXPERIENCE



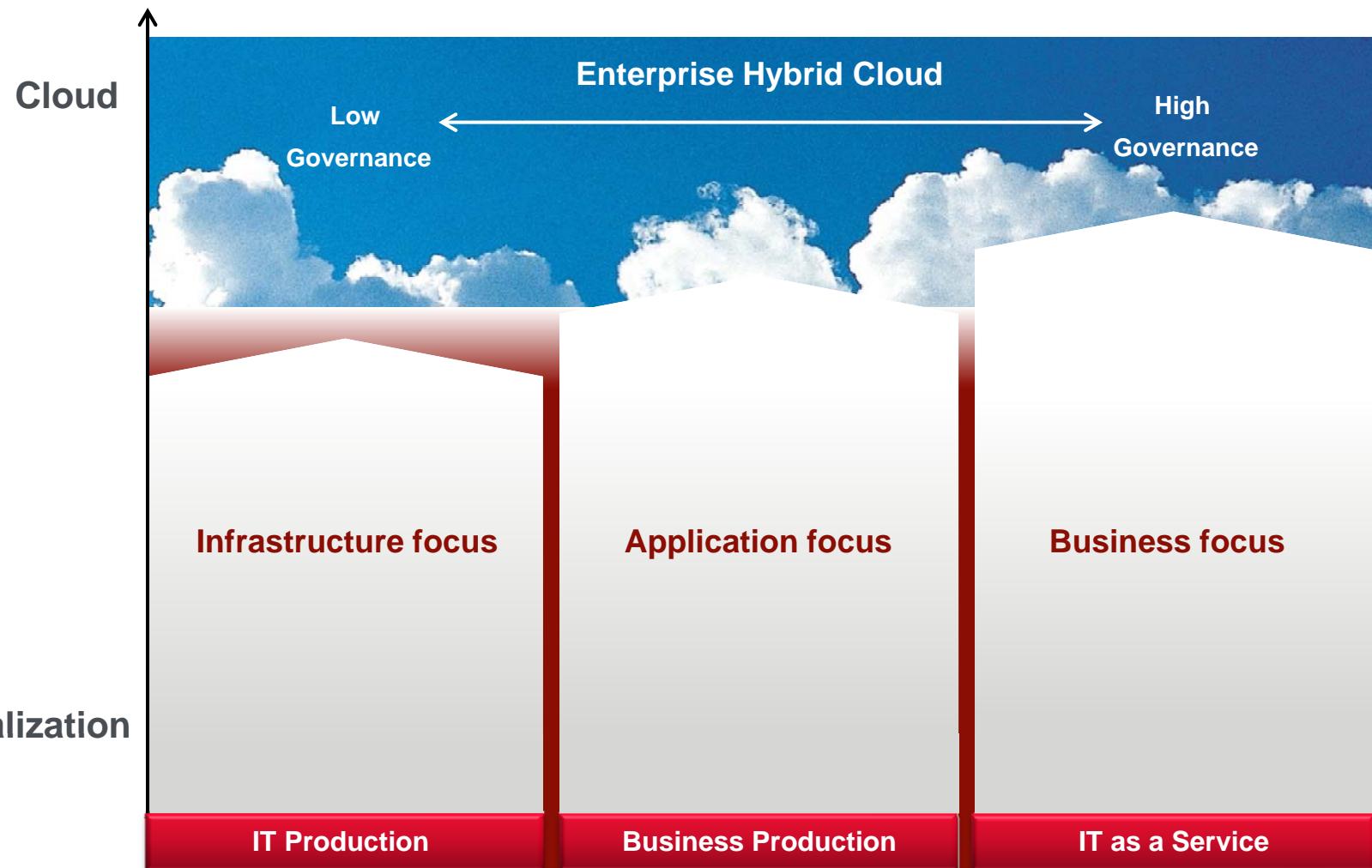
My Apps, My Files, Native Device Experience



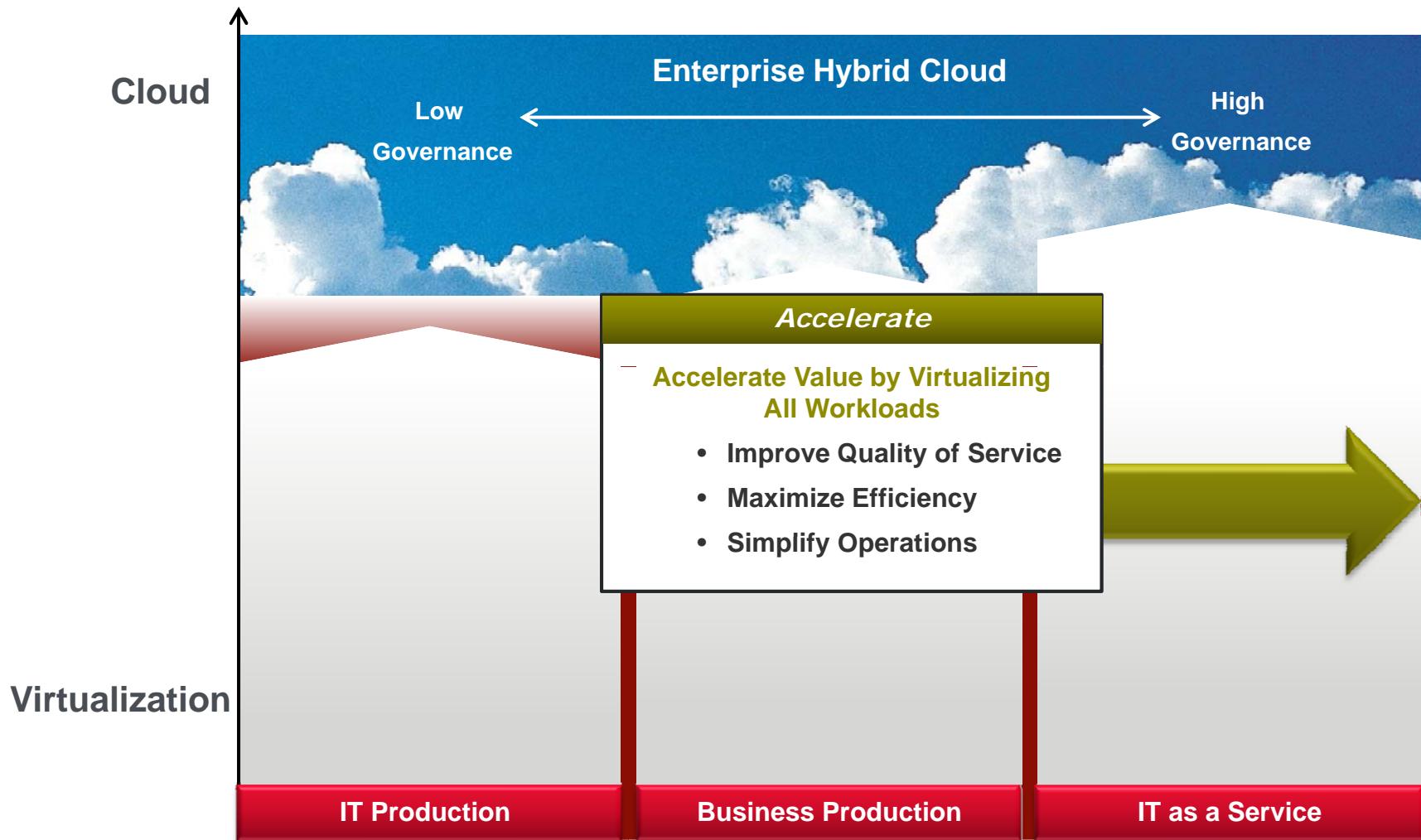
THE JOURNEY TO YOUR CLOUD



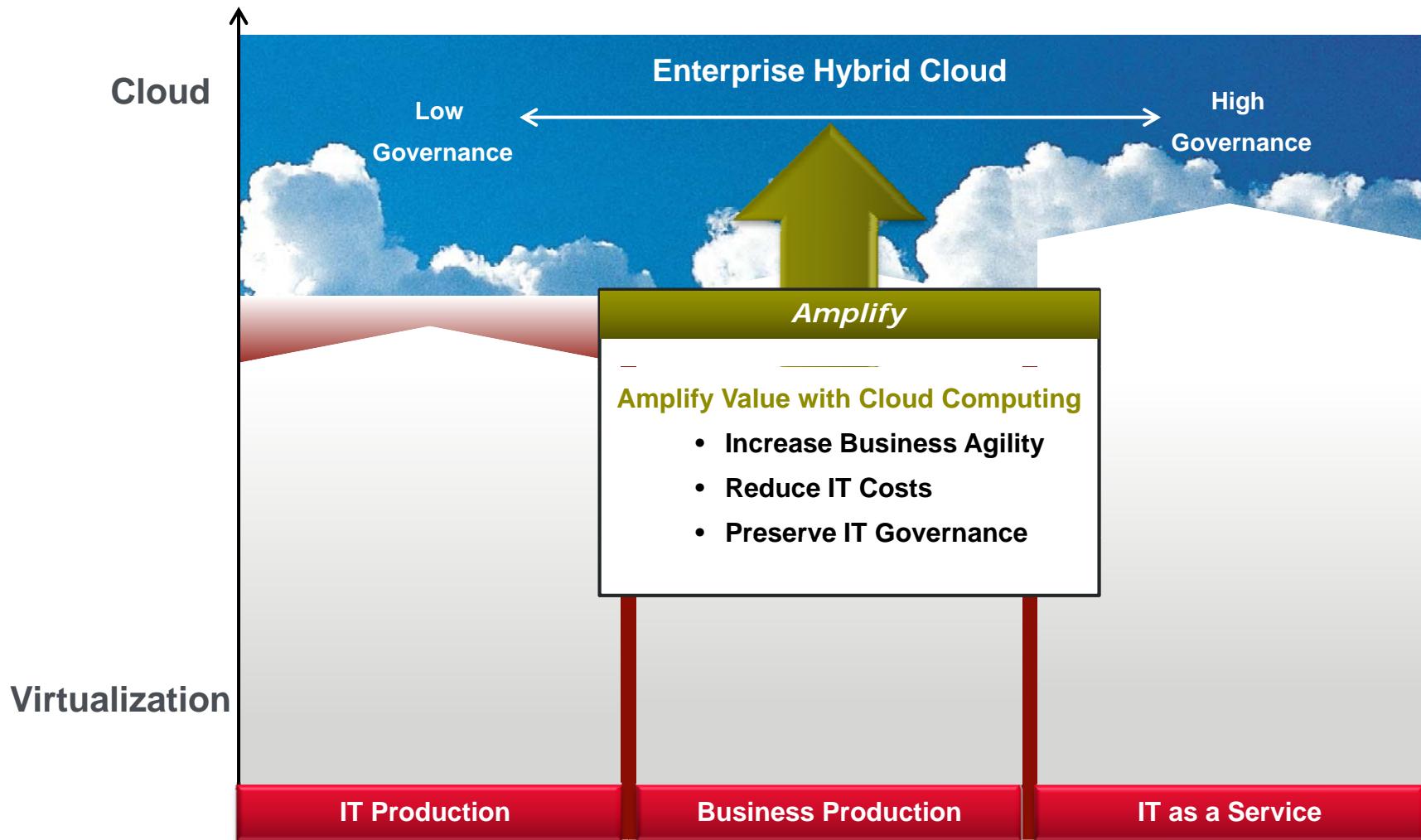
JOURNEY TO IT TRANSFORMATION – ACCELERATE IT.



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JOURNEY TO IT TRANSFORMATION – ACCELERATE IT.



IN SUMMARY, ONLY VMWARE ...



delivers the world's most trusted virtualization platform to build your cloud



virtualizes the entire fabric of the datacenter, while securely extending to public cloud infrastructure



delivers an evolutionary path to your cloud, while preserving freedom of choice



enables you to modernize your applications and build new ones for tomorrow



ensures end-user freedom, while IT maintains control



brings the broadest set of ecosystem partners, extending the value of existing investments



THANK YOU





Q&A

This concludes our presentation, "It's a Virtual World".

If you have any questions, please feel free to ask.

We hope you found this presentation informational.

Thank you all for coming!

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