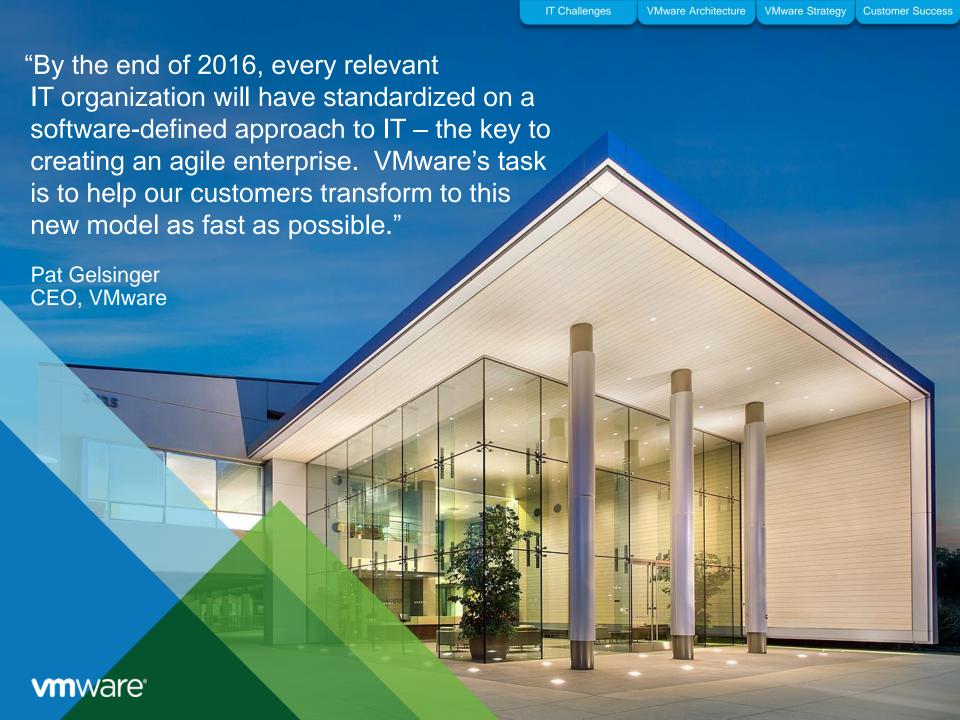
## **VMware next Strategy:**

# The Software-Defined Enterprise will empower IT as a Service

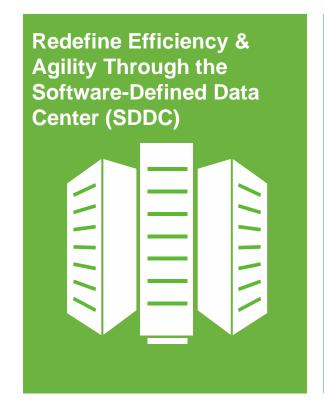
Marcel Panholzer
Senior Manager Systems Engineering

**VMware Switzerland** 





### **Empowering IT as a Service**









## Radically Simplifying IT Again...

Delivering Infrastructure for Cloud Services to All Devices





#### Infobit 2014 Zürich

#### **AGENDA**

- Software Defined Data Center (vCloud Suite)
  - Virtual SAN
  - NSX
- vCloud Hybrid Service
- Mobile Cloud



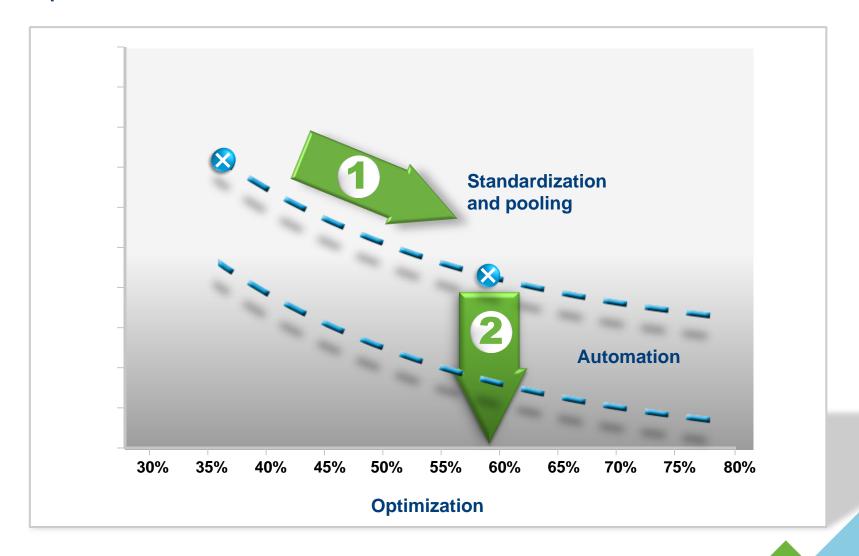


## **Why Software Defined Data Centers?**



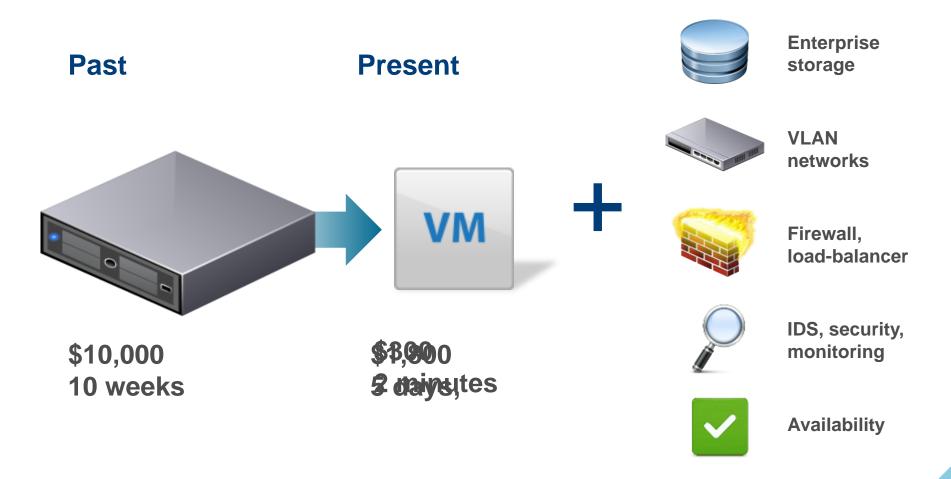
## Two reasons for Virtualizing

#### **Cost per VM**



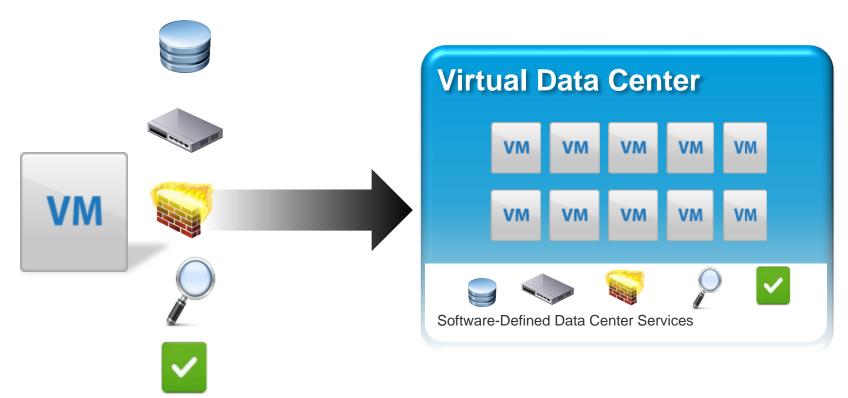


## Major Benefits Achieved... Much More is Possible!





## SDDC = Major Breakthrough in Speed and Agility

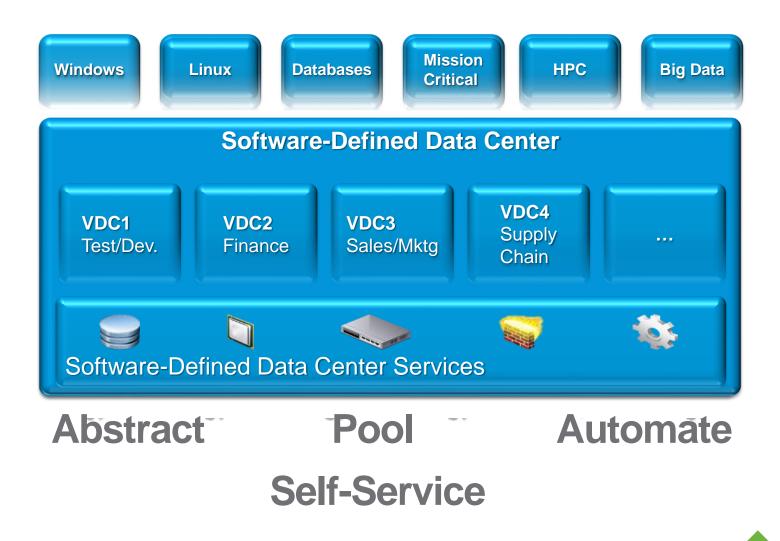


5 days

3 minutes

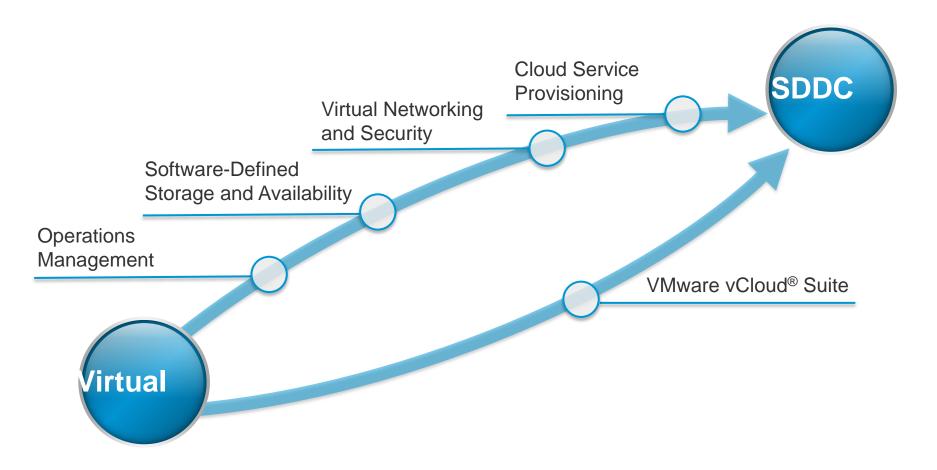


### Adopt the Software-Defined Data Center (SDDC)



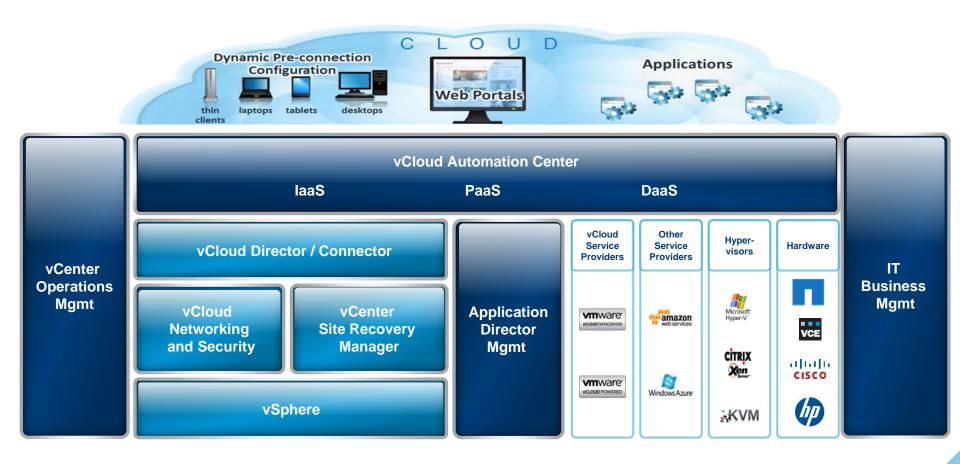


## From Virtualization to SDDC – One Destination, Two Paths





#### **VMware vCloud Suite**









## VMware Virtual SAN



## VMware Approach to Software-Defined Storage

#### **Software-Defined Storage**

**Policy-based Storage Management** 

Virtualized Data Services

Hypervisor Storage At straction



#### SAN/NAS

- vSphere Flash Read Cache
- Virtual Volumes



Scale from 3 - 8 Hosts

VM-centric policies for placement, protection, and performance

VM-centric snapshots, clones, replication, backup, etc.

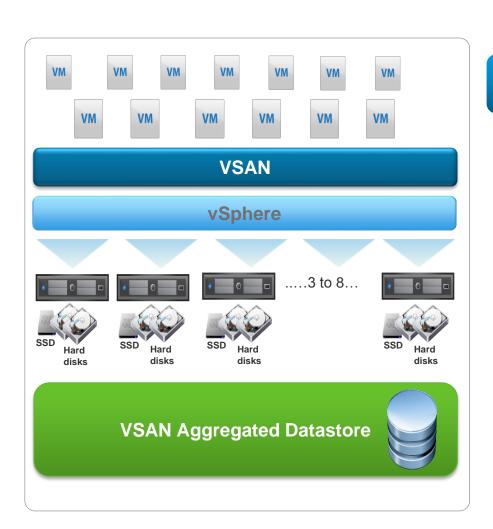
Heterogeneous storage consumed as datastores and VMDKs

#### **Release Plans**

- VSAN GA with vSphere 5.5 U1 today!
- Flash Read Cache GA with vSphere 5.5
- Virtual Volumes 2014+



### vSAN: Radically Simple Storage

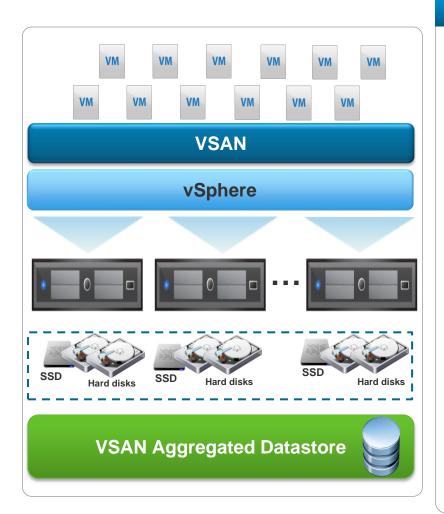


#### **Key Features**

- Policy-driven per-VM SLA
- vSphere & vCenter integration
- Scale-out storage
- Built-in resiliency
- SSD caching
- Converged Compute & Storage



## What are the key components of Virtual SAN?

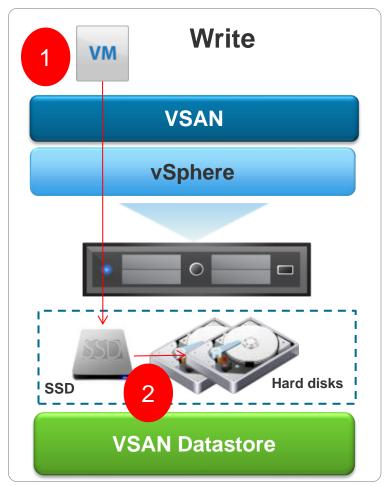


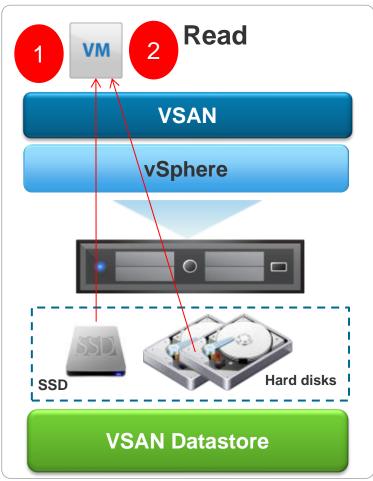
#### **Key Components**

- Hybrid storage system which leverages Aggregates local SSD's as a cache and local HDD's to provide a clustered data store for VM consumption
- Distributed object-based RAID architecture provides no single point of failure
- Fully integrated with vCenter, HA, DRS, vMotion
- Scale-Out Storage: 3-8 nodes in 1.0, >8 planned for near future



### **vSAN** Datastore for great Performance





- All VM I/O is directed to the SSD. Writes are later destaged to HDD.
- If the requested read block is not in cache, the request is directed to HDD

**m**ware<sup>®</sup>

## **Network Virtualization**

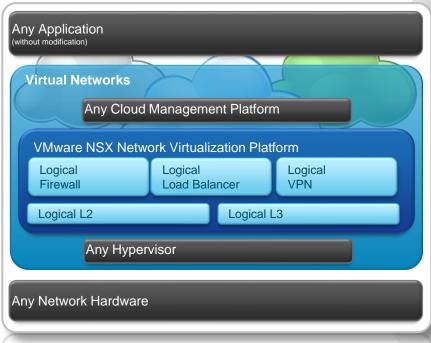
Transforming the Network to Speed Business Innovation





**VMware NSX – The Platform for Network** 

**Virtualization** 





**Logical Switching–** Layer 2 over Layer 3, decoupled from the physical network

**Logical Routing**– Routing between virtual networks without exiting the software container

**Logical Firewall –** Distributed Firewall, Kernel Integrated, High Performance

**Logical Load Balancer –** Application Load Balancing in software

**Logical VPN –** Site-to-Site & Remote Access VPN in software

**NSX API –** RESTful API for integration into any Cloud Management Platform

**Partner Eco-System** 

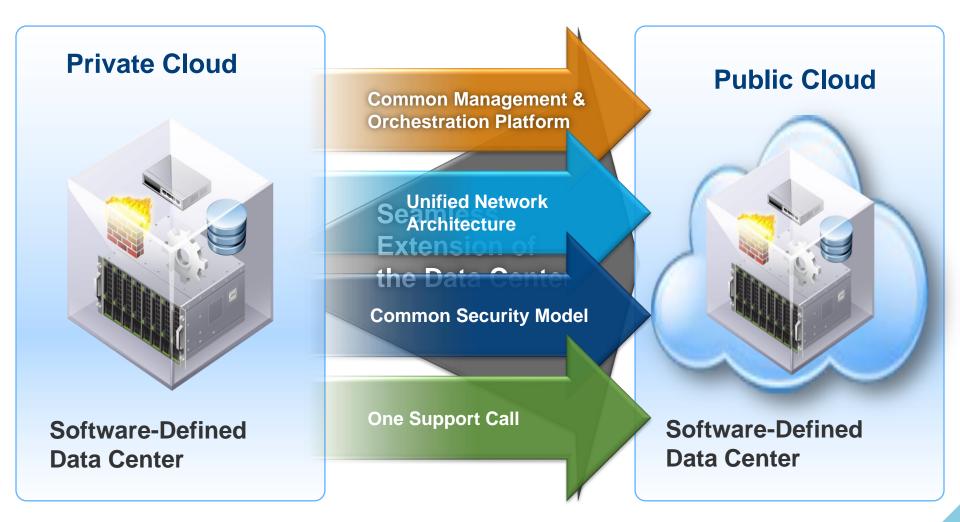


VMware and Our Partners make Hybrid Cloud



- Enabling 480,000
   customers to
   adopt Hybrid
   Cloud services
- Cloud Credits sold via Solution Partners
- 220 certifiedService Providersin 26 countries
- 4 out of 5 Gartner IAAS Magic Quadrant leaders based on VMware

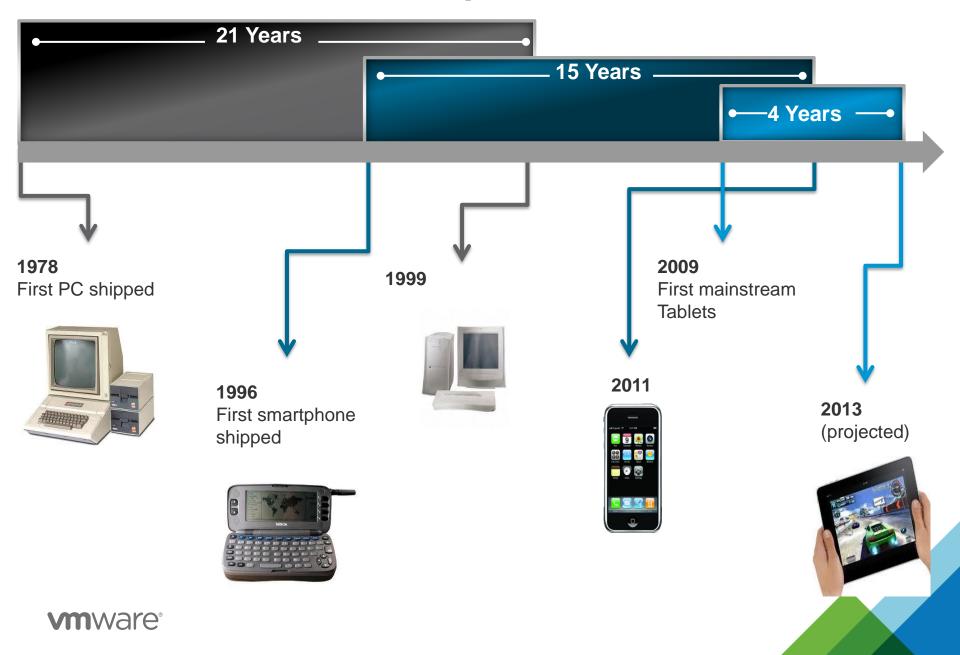
## **Extending the Private Cloud to the Hybrid Cloud**



Any Application, Any Place... No Changes



## Time to Reach 100M Shipments Per Year



#### We focused and standardized, but change didn't stop

## **New Device Platforms**

- A new way to work
- Not just Windows anymore



#### New Apps

- SaaS, mobile apps
- Quantity is increasing



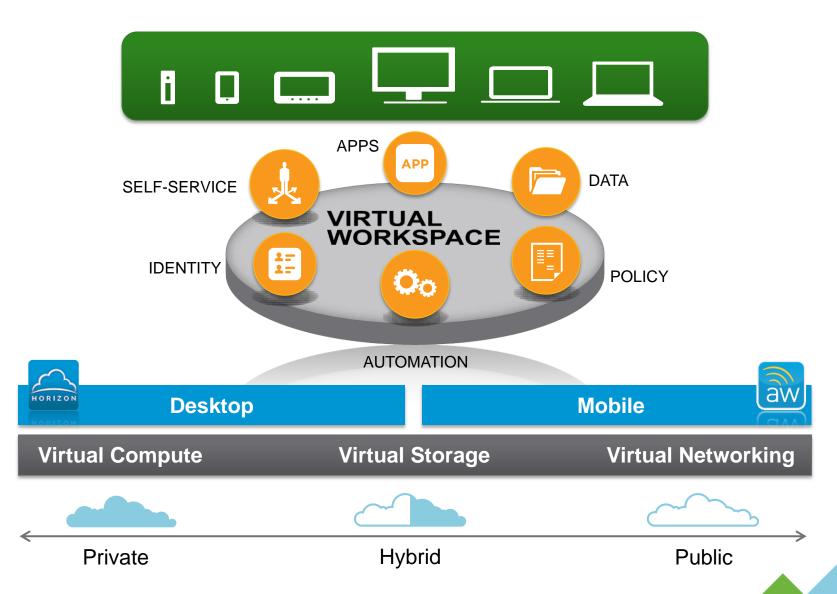
## New User Expectations

- Collaboration with partners, contractors, and customers
- Productivity through better technology





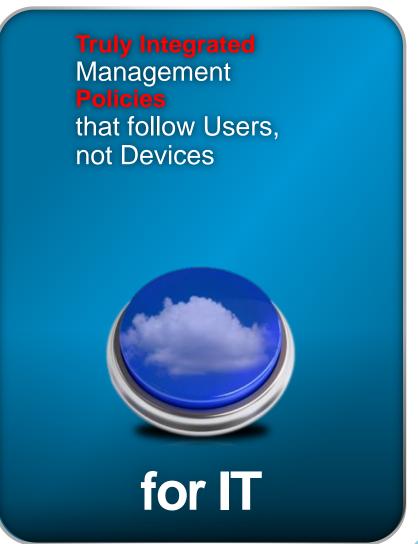
### These Challenges Require a Different Approach





## How to Give End-Users More Freedom and IT More Control?

access to Apps and Data Personal / Business of any Device for Users



## VMware Horizon Suite – The Platform for Workforce Mobility

### **VMware Horizon Suite**

Simplify, Secure, Empower

VMware Horizon Mirage

VMware Horizon View VMware Horizon Workspace (Apps, Data, Mobile)



**Physical Desktops** 



Multi-Device Workspace

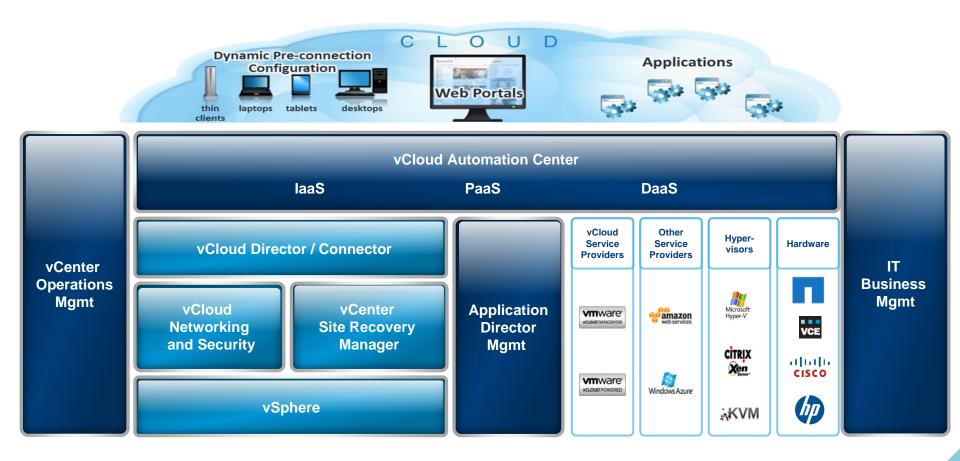








#### IT as a Service





#### VMware Events 2014

- 3<sup>rd</sup> of June vForum 2014 Regensdorf (Zürich)
- June or September vForum in Lausanne (Date TBD)
- 24<sup>th</sup> 28<sup>th</sup> of August, VMworld US 2014, San Francisco
- 14th 16<sup>th</sup> of October, VMworld Europe 2014, Barcelona



