



VMware Virtualization

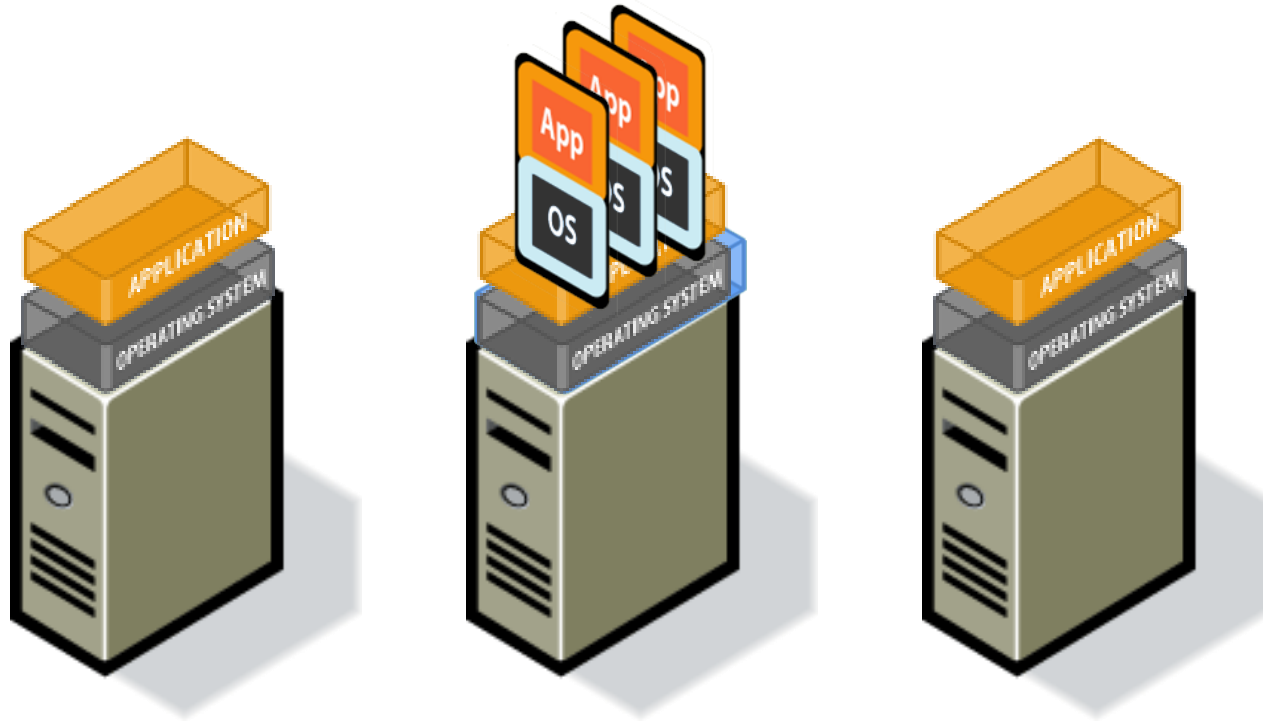
Garrett Hartney

VMware Evangelist

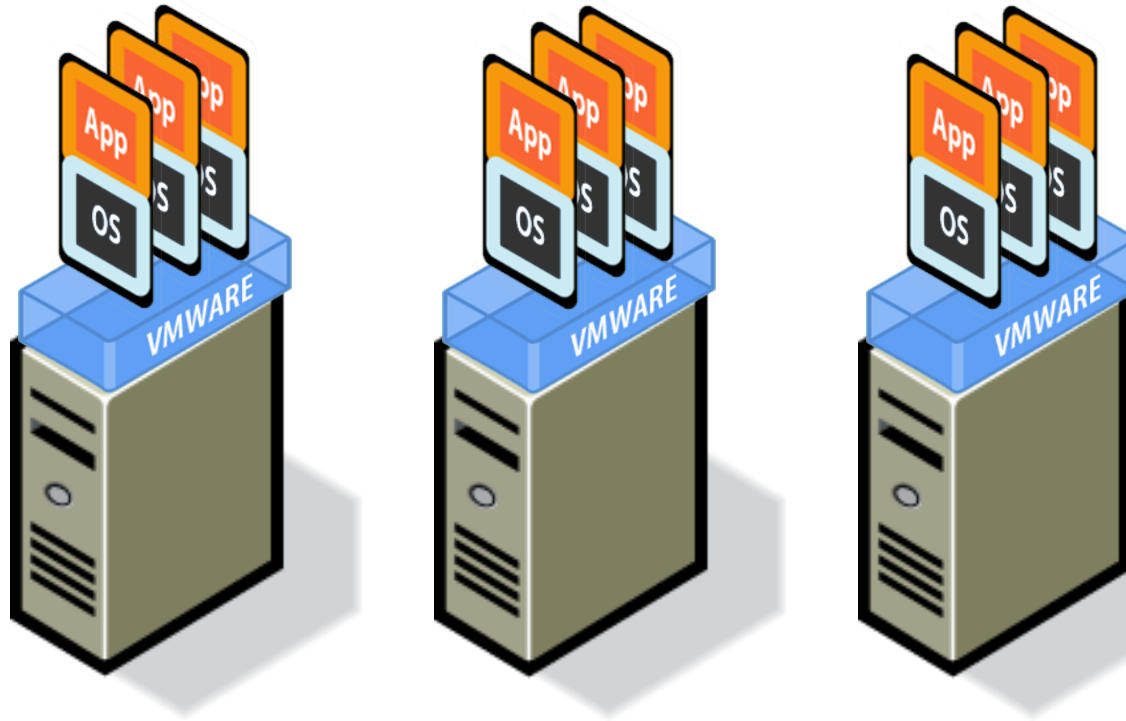
Agenda

- Virtualization
- VMware Management vServices
- The Virtual Datacenter Operating System
- Desktop Virtualization

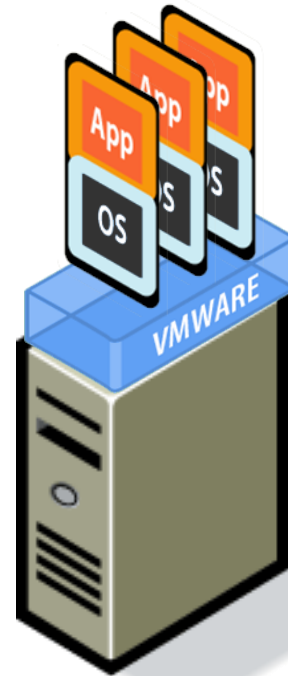
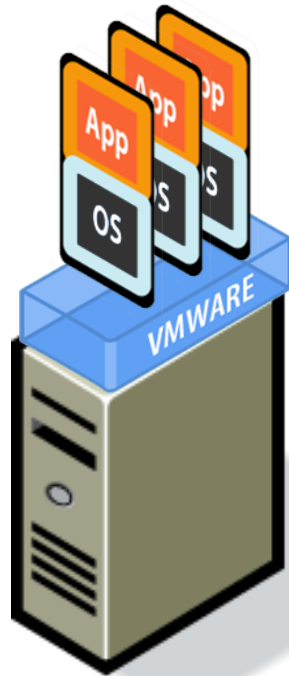
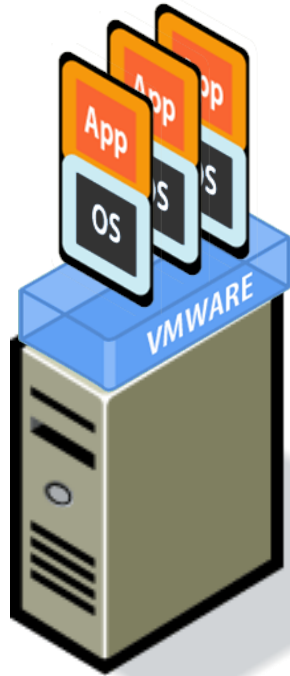
Virtualization



Virtualization on Production Workloads

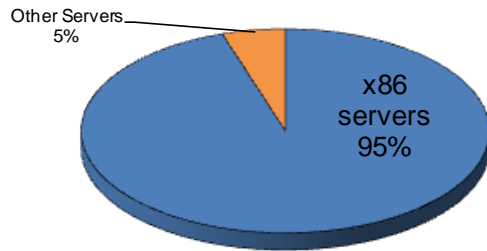


VMware Infrastructure

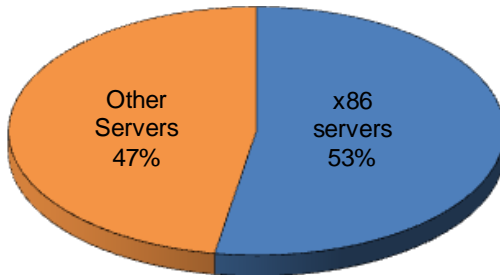


The Worldwide Server Market

**CY2007: 8M total server units shipped
(x86 server units =7.6M)**

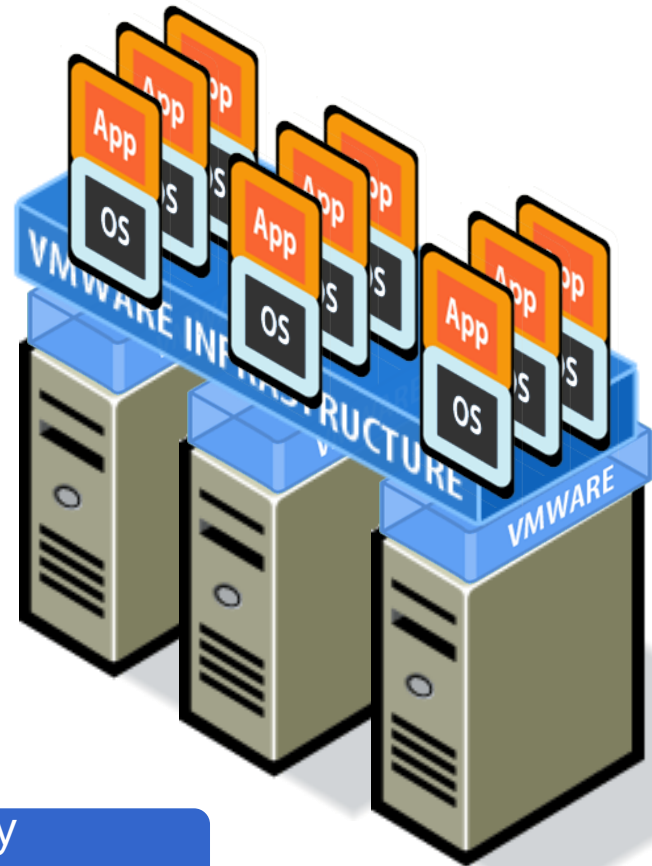


**CY2007: \$54.4B total factory revenue
(\$28.7B x86 server factory revenue)**



Source: IDC Server Tracker

**Centers Today
Average Utilization = 5 -10%**



VMware ESX and ESXi – Serious Availability, available for Everyone

Proven by customers

- > Over 20,000 customers
 - > Virtualization Available for everyone
 - > Over seven years of maturation
 - > Over 85% of customers using for production workloads
 - > Years of reliability in the production environment
- The FREE industry proven virtualization software.

Uptime
1516 days

Name	State	Status	Uptime	Memory Size - MB	CPU Count	NIC Count
hpwesx08.net.bns.com	Connected	●●●	1516 days	7886	4	3

Reliable by design

- > Less code = fewer patches
- > No dependence on OS or arbitrary drivers



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2008 Editor's Choice Awards

Most Reliable Category

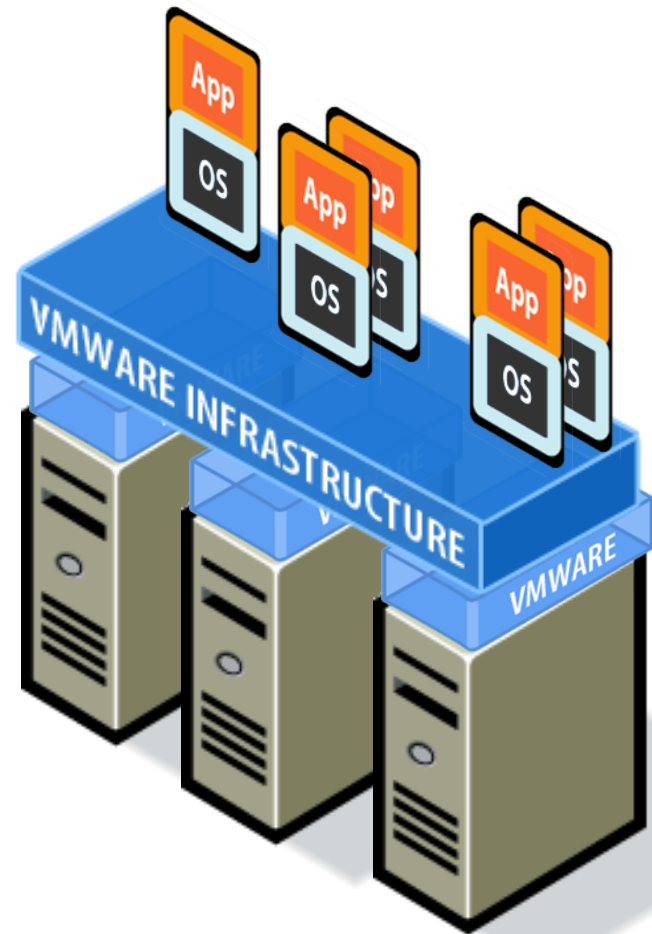
1. VMware ESX
2. IBM mainframe Physical Server



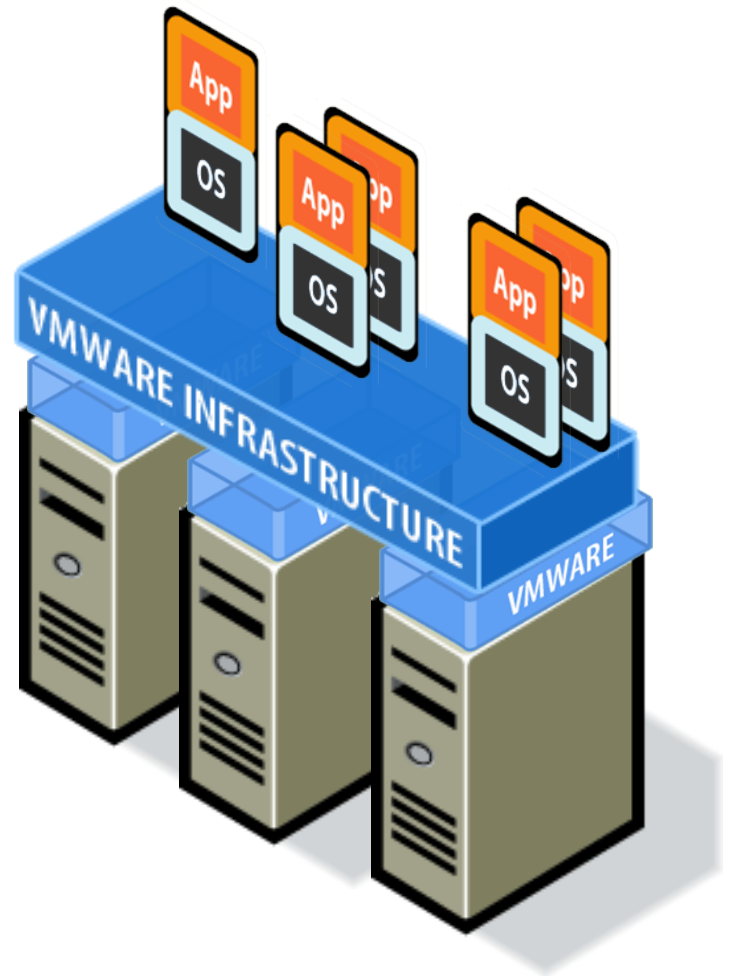
VMware Management vServices

Easy migration from Physical to Virtual

Consolidation
Management with the
VMware Infrastructure
software will automate the
migration from physical to
virtual machines.

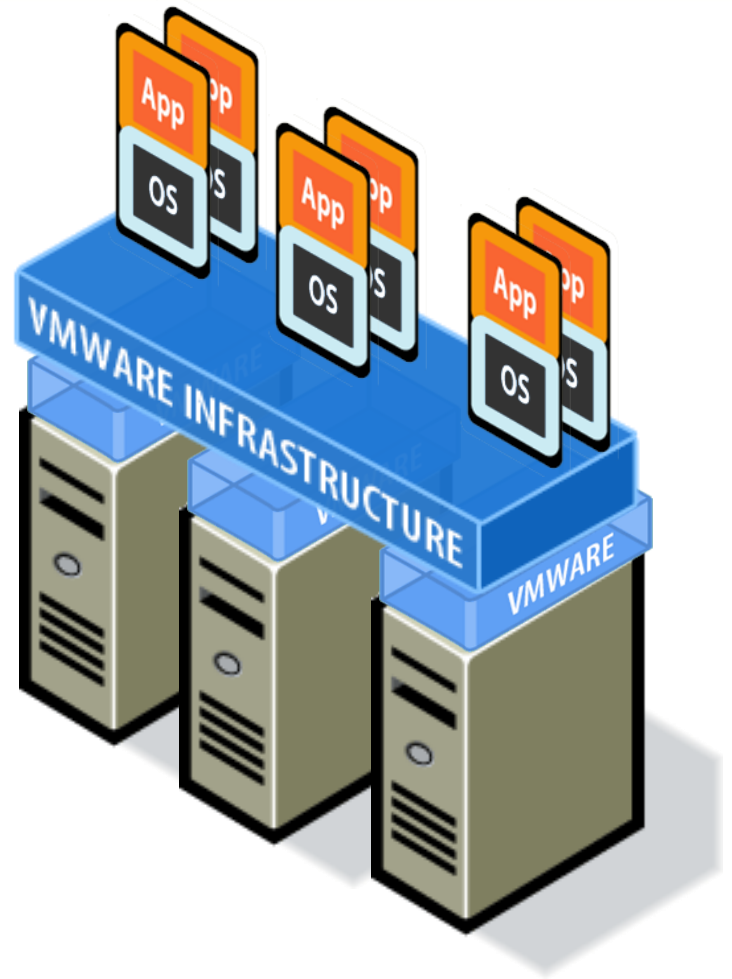


Easy workflow management for new Virtual Machines



Scalability vServices

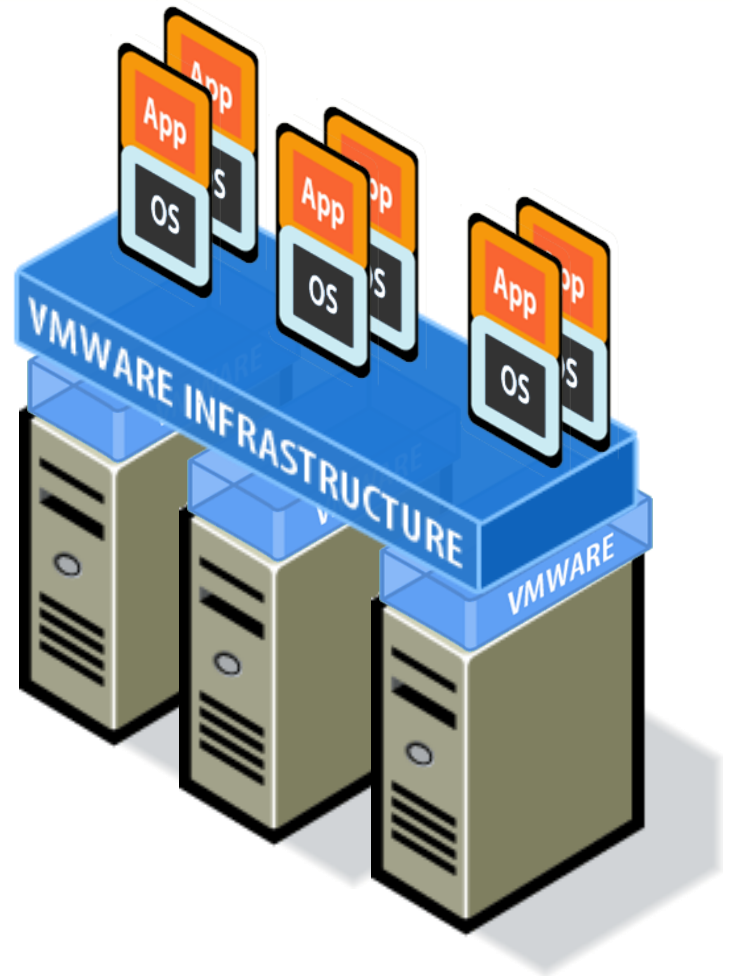
VMware Vmotion, makes it possible to move Virtual Machines, without interrupting the applications running inside.



Automatic Scalability vServices

VMware Distributed Resource Scheduler automatically balances the Workloads according to set limits and guarantees.

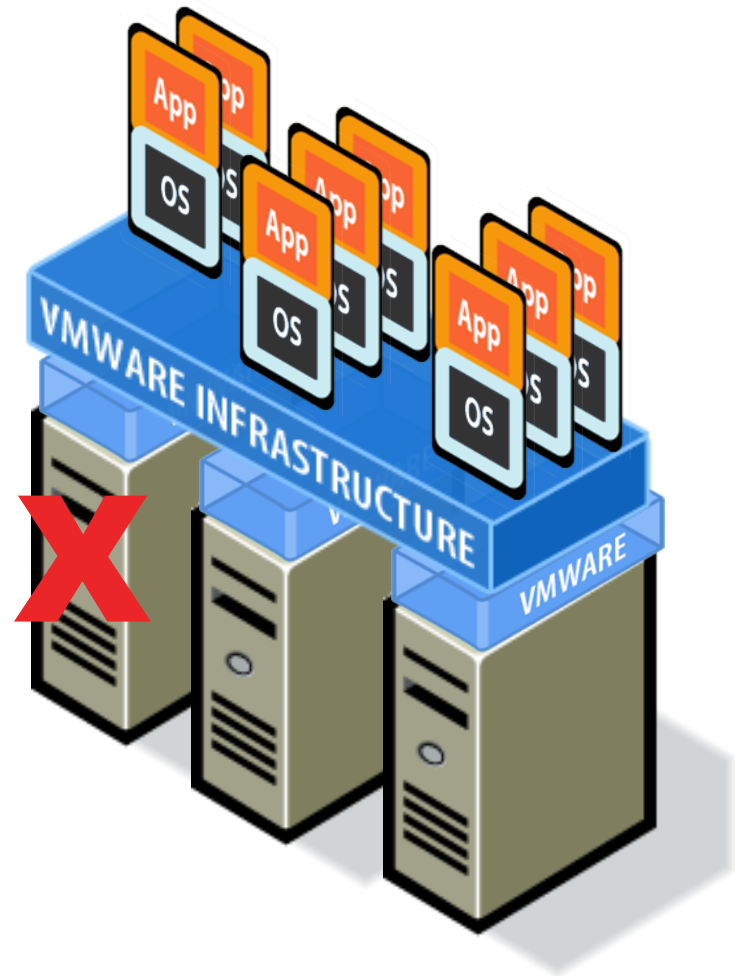
Removing the need to predict resource assignment.



High Availability vServices

VMware High Availability makes all Servers and Applications protected against component and complete system failure.

Only One-Click to configure!

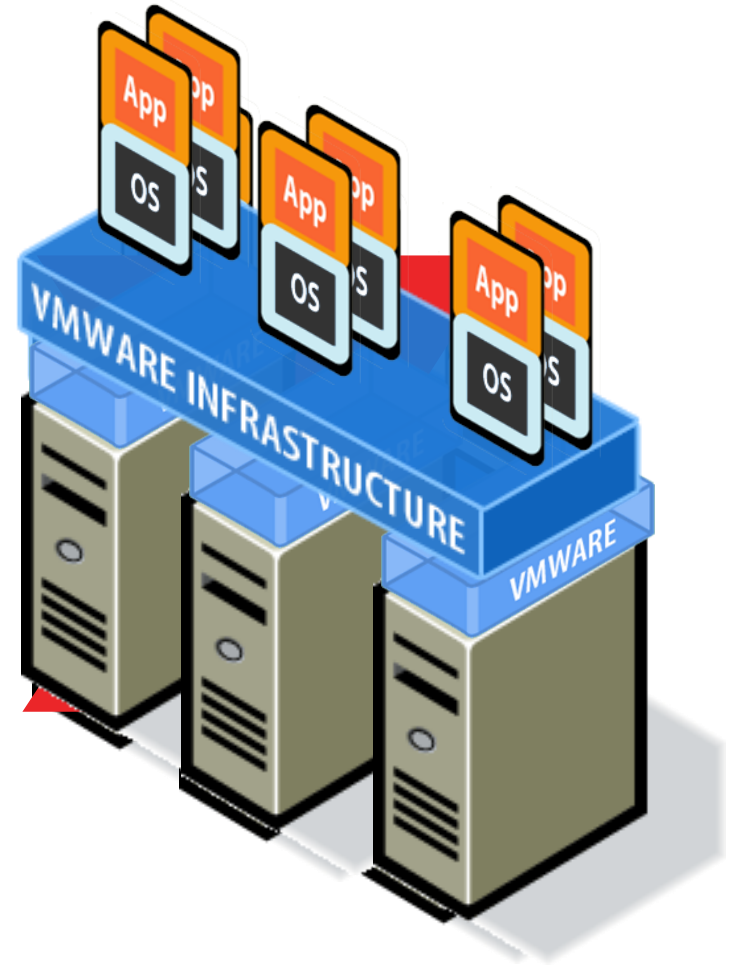


Disaster Recovery vServices

VMware Site Recovery
Manager enables an easy
transition from a
production site to a
Disaster Recovery site.

Easy Execution for real
Disaster

Easy Testing for good
night sleep

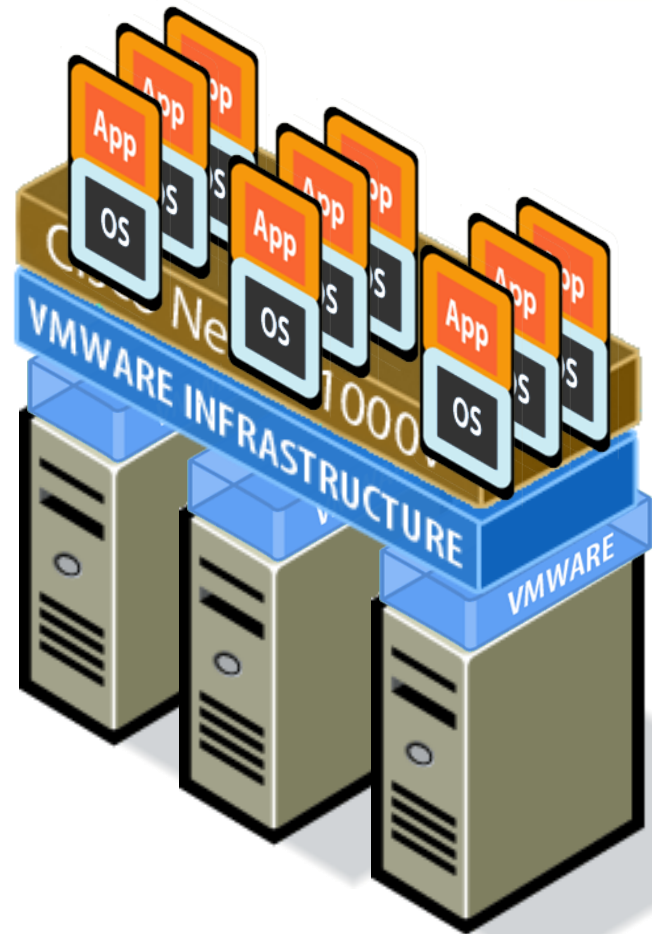


Adding Infrastructure vServices

VMware and Cisco are collaborating to enhance workload mobility and simpler management with virtualization-aware networks

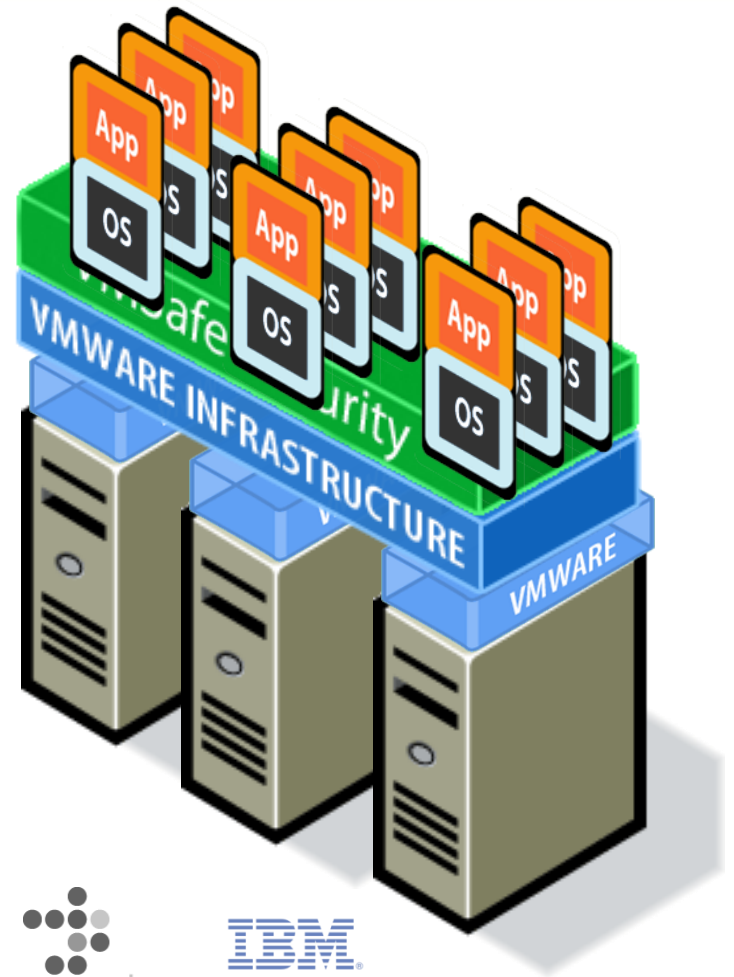


Nexus 1000V



Security vServices

The Application vService VMsafe allows security vendors to add superior security solutions inside the VMware Infrastructure.

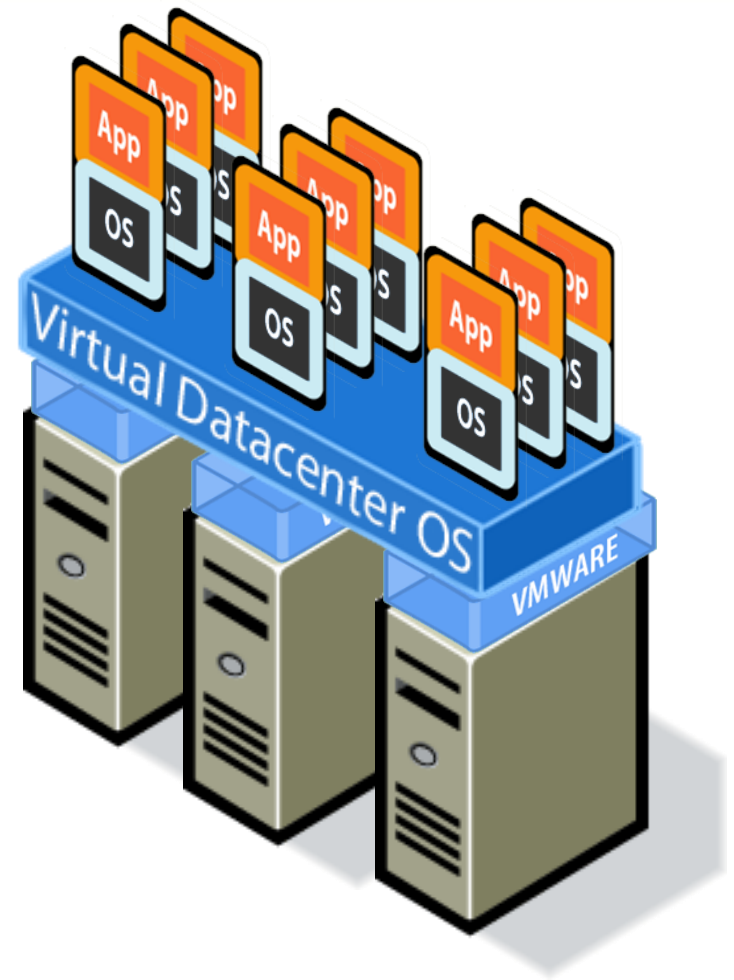




The Virtual Datacenter Operating System

The Virtual Datacenter Operating System

The virtual datacenter OS delivers flexibility, speed, resiliency and efficiency by transforming the datacenter into an “internal cloud” – an elastic, shared, self-managing and self-healing utility that can federate with external clouds of computing capacity freeing IT from the constraints of static hardware-mapped applications.



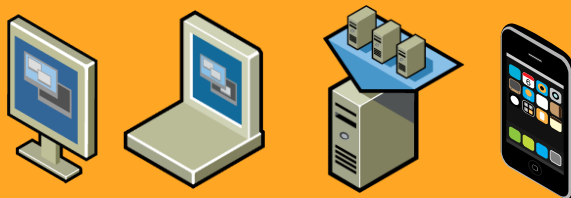


Desktop Virtualization

The Desktop Dilemma

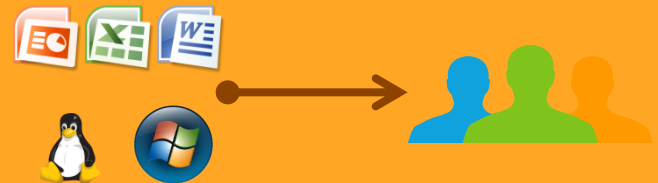
IT Needs To Bring Down Costs, but...

- Thick or Thin?
- Mobile or Not?
- Windows or Mac?

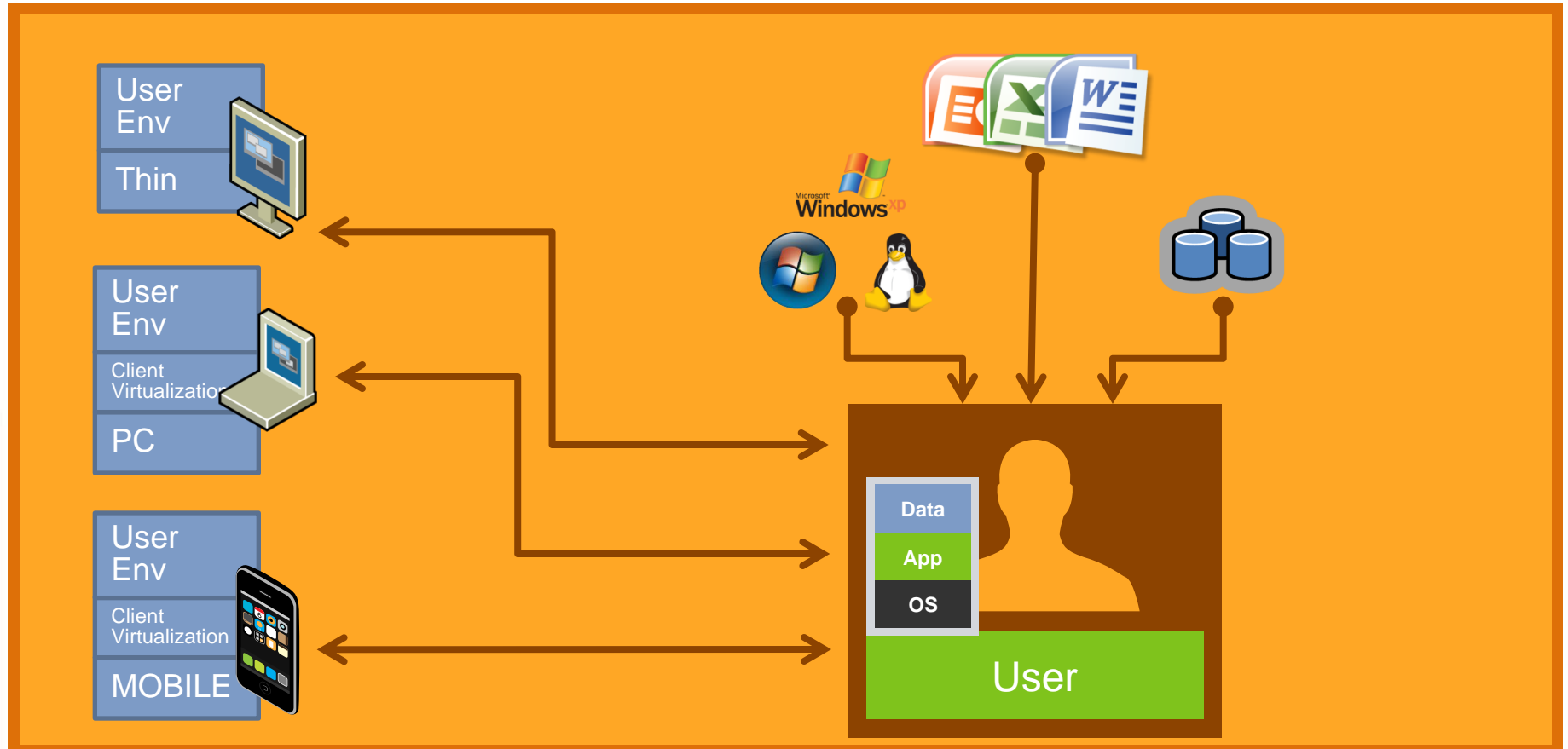


End Users Want Their Desktop To Follow Them

- Want info to be accessibly anywhere, anytime
- Don't want info locked up in a single device
- But don't want to give up richness



Desktops That Follow the User: From VDI to VMware View



Centralized Management



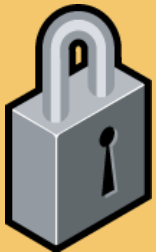
Provisioning

- Deploy dozens of virtual desktops quickly and with lower storage requirements



Image Updating

- Update VDI desktops and virtualized laptops from a single master image



Policy Enforcement

- Centralized security policies of virtualized laptops

Evolution: From VDI to VMware View™

Server Based Management

- VMware View Composer for storage reduction and updating
- VMware View Manager support for non-virtual platforms

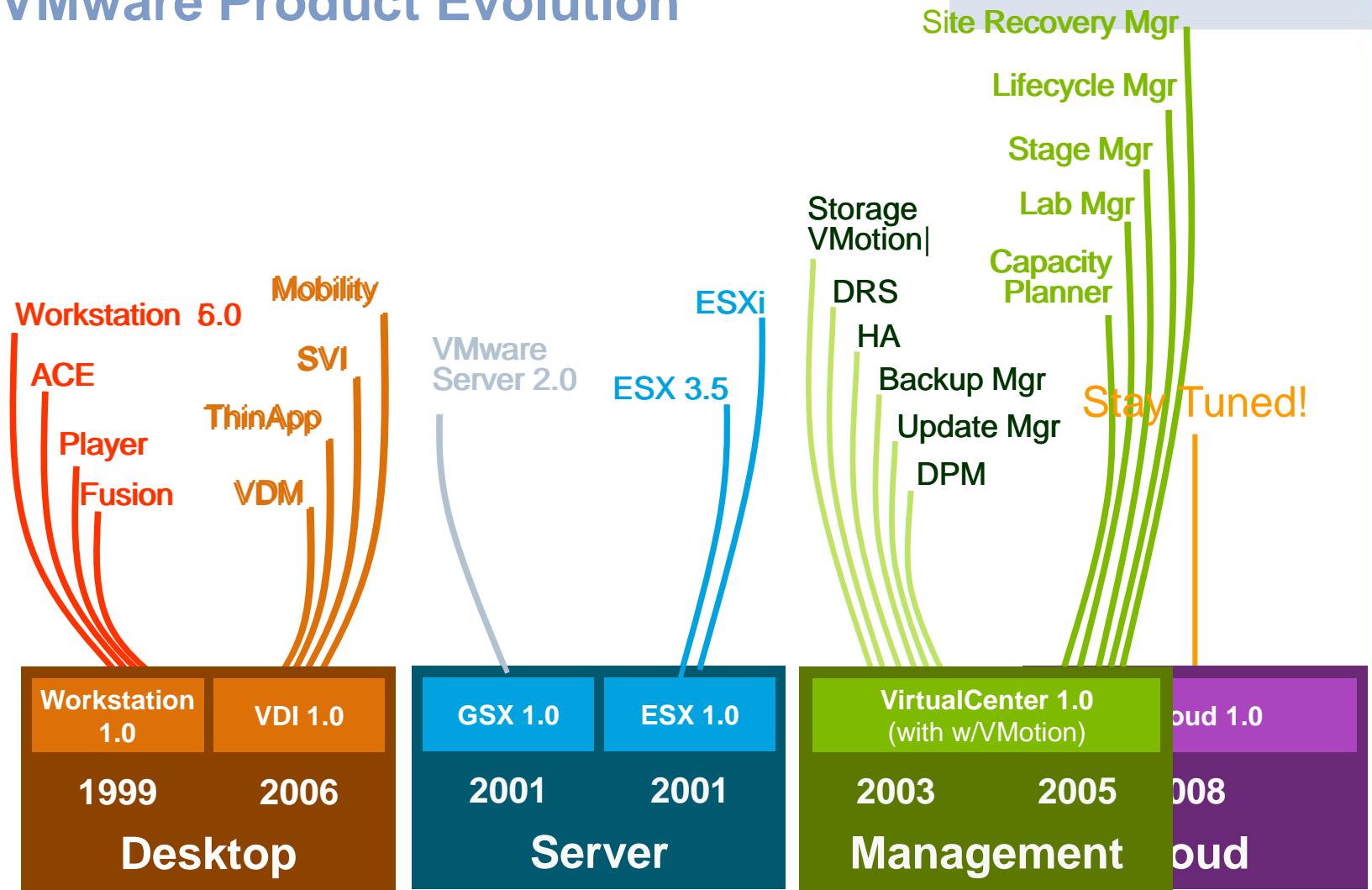
PC User Experience

- Support for multiple partner protocols:
 - Codevelopment with Teradici
 - HP
 - Wyse
- Improved 3D graphics with client virtualization

Universal Clients

- Client virtualization layer for device independence
- Seamless management along side VDI users
- Extending to mobile devices

VMware Product Evolution





Questions