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LAS VEGAS | APRIL 27–MAY 2, 2008

# *Virtual Desktop Architecture*

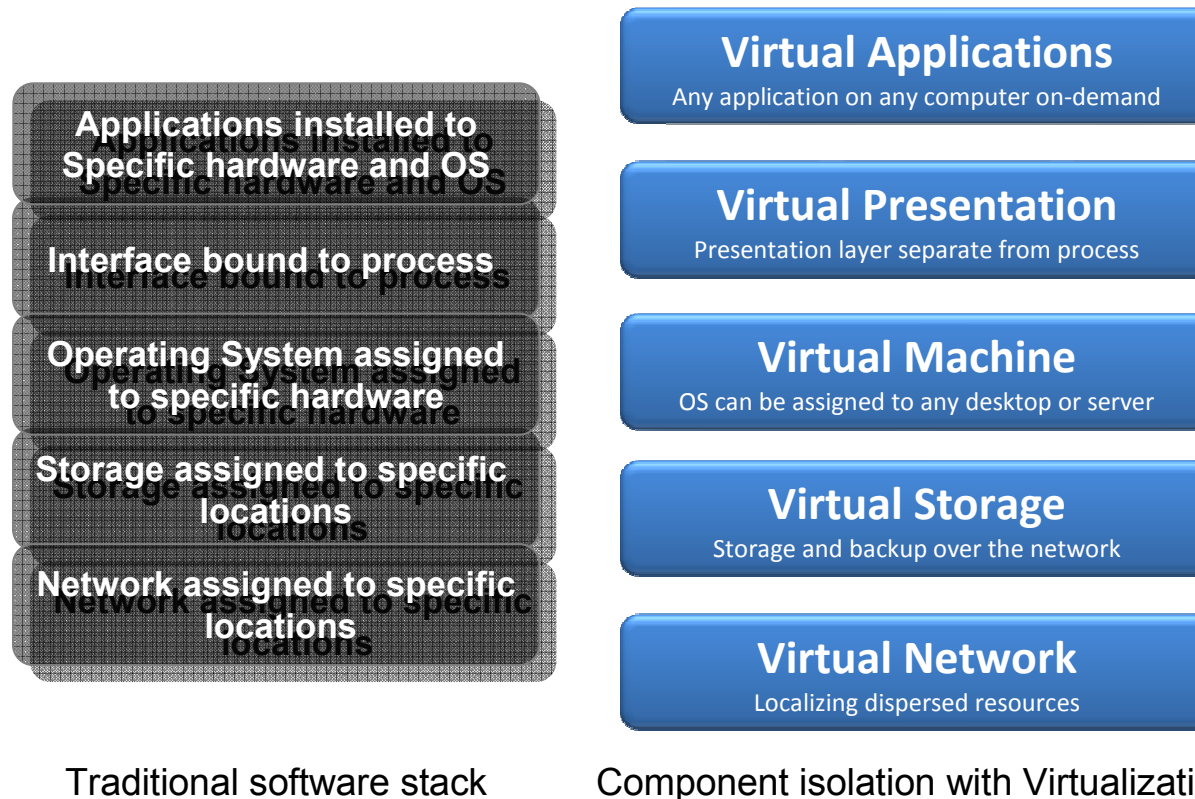
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# What is Virtualization ?

Virtualization is the isolation of one computing resource from the others:



Virtualization results in more **efficient resource utilization**, and enables **greater flexibility** and simplified **change management**

# Key Drivers for Centralized (Virtual) Desktop Computing Architectures

## Business Trends

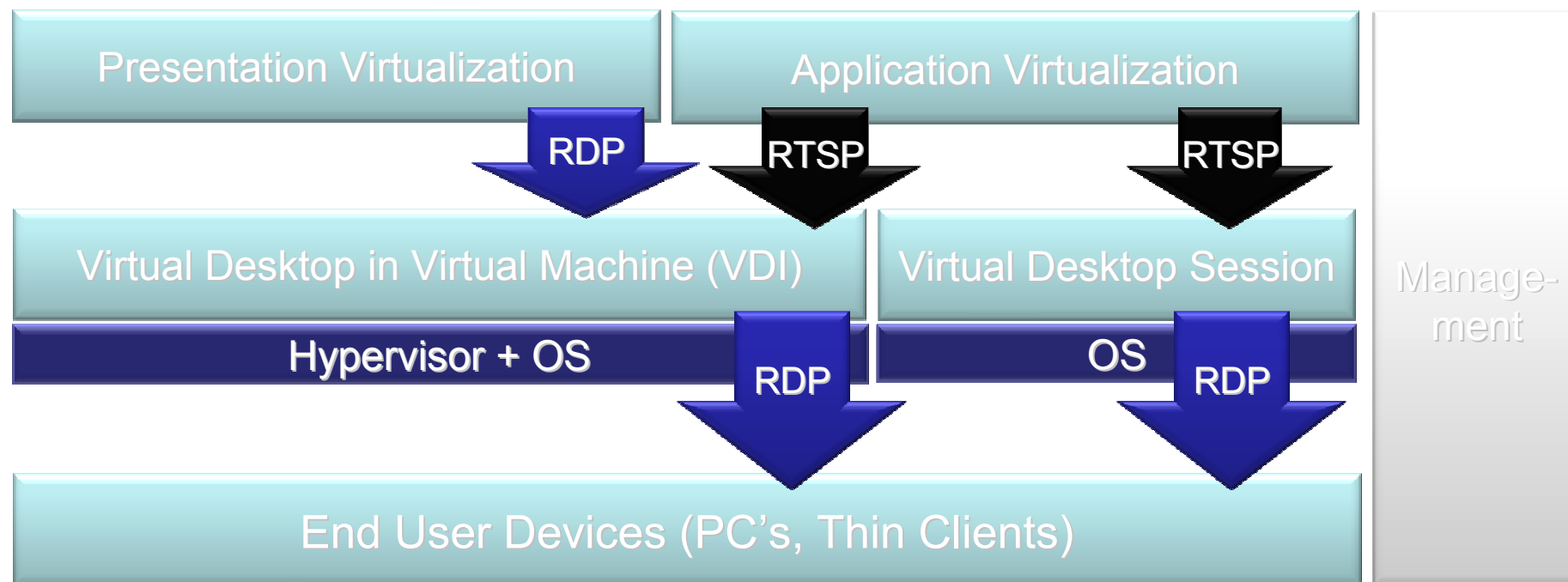
- Globalization
- Branch expansion/M&A
- Flexible Workforce
- Disaster Recovery
- Regulatory Compliance



## IT Challenges

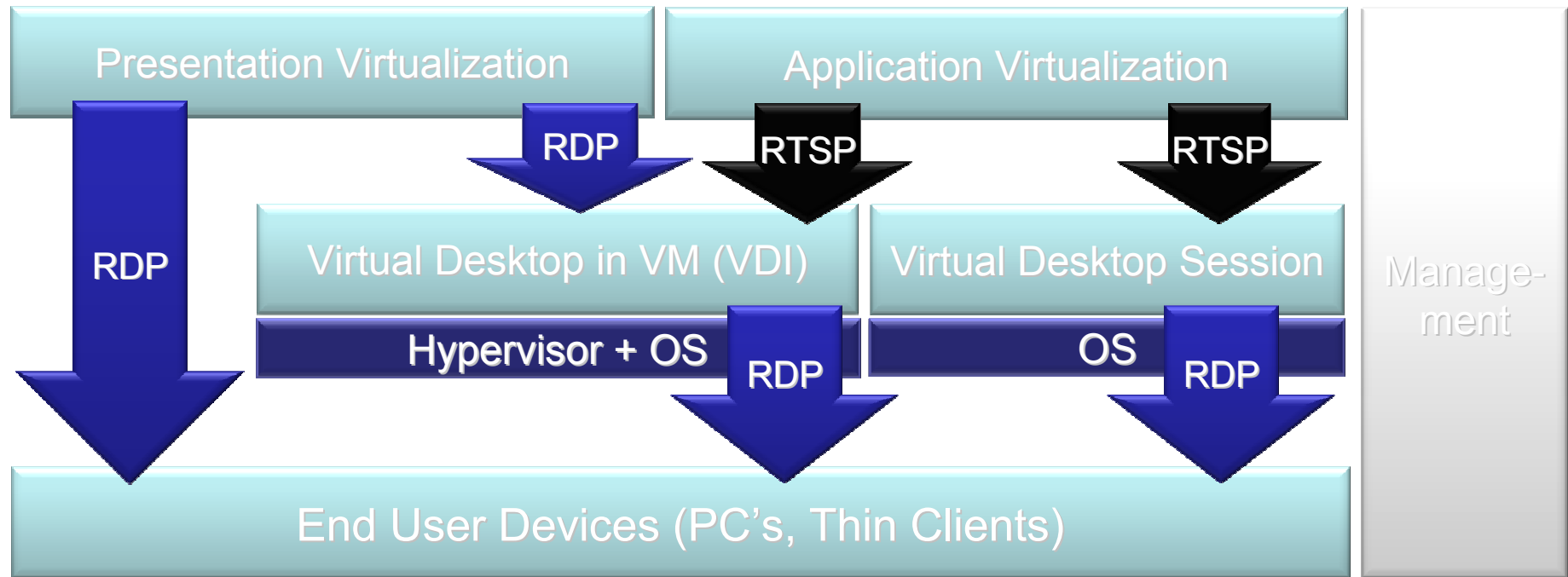
- Availability
- Data Security
- Manageability
- Resource Utilization/Consolidation
- Cost containment

# Virtual Desktop Architecture Overview



Virtual desktops can be based on a *hypervisor virtualization platform (VDI)* or session-based leveraging *presentation virtualization*. *Application virtualization* and *presentation virtualization* are great complementary technologies to help *provision multiple desktops from a single virtual desktop image*.

# Virtual Desktop Architecture Overview



Virtual desktops can be based on a *hypervisor virtualization platform (VDI)* or session-based leveraging *presentation virtualization*. *Application virtualization* and *presentation virtualization* are great complementary technologies to help *provision multiple desktops from a single virtual desktop image*.

# Virtual Desktop Architectures

## Presentation Virtualization vs. VDI

	Presentation Virtualization (Sessions)	VDI (VMs)
Scalability	High	Medium
Security	Session isolation	VM isolation
Maturity	High	Low
Remote User Experience	Protocol-dependent	Protocol-dependent
User Flexibility	User is running as a user	User can have full rights
Application Support	Server OS	It's XP / Vista !
Availability of Skilled IT Staff	High (TS experts)	Low (VM experts)

- **Your requirements should dictate mode chosen**
- **Remoting protocol is common factor for both models**
- **Expect to have mix of both models**

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# Virtual Desktop Infrastructure (VDI) Benefits



**Operating System  
installed to hardware**

**Presentation and process  
on same computer**

**Applications  
installed to OS**

**Data resides  
on local computer**

**VS.**

## **Virtual Machine**

OS can be assigned to any desktop or server



## **Virtual Presentation**

Presentation layer separate from process



## **Virtual Applications**

Any application on any computer on-demand



## **Virtual Profile**

Data resides on the network



- **Reduces inefficiency and underutilization**
- **Enhances reliability**
- **Increases availability**
- **Improves business agility**

# Virtual Desktop Architecture from Microsoft Overview

