

Information Infrastructure in a Virtual World

Interop Las Vegas
April 29, 2008

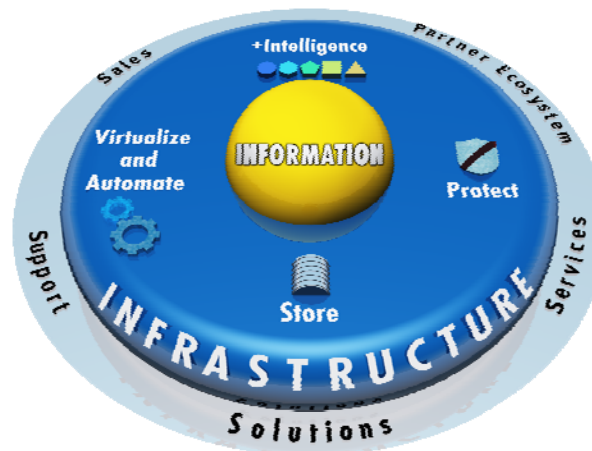
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Distinguished Engineer, EMC Corporation

Information Infrastructure

Who We Are: EMC is the world's preeminent information infrastructure technology company

Our Value to Customers: We help customers avoid the risks and reduce the costs associated with managing information, while fully exploiting its value for competitive advantage

How We Deliver Value:



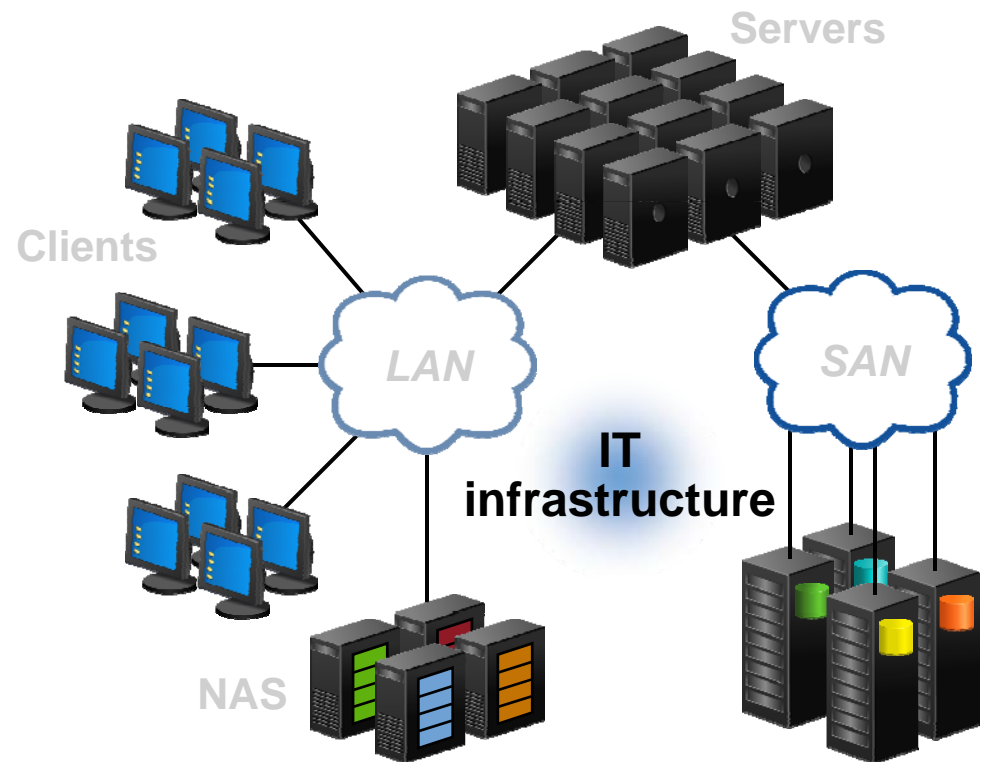
Information Infrastructure is a shared set of products, services, and best practices to store, protect, and add intelligence to information and orchestrate the infrastructure through virtualization and automation

Virtualization Enables Information Infrastructure

Infrastructure virtualization across servers and networked storage

Infrastructure services to assess, design, build, and manage virtualization across the entire enterprise

Enabling end-to-end dynamic provisioning, load balancing, and nondisruptive optimization of all infrastructure resources



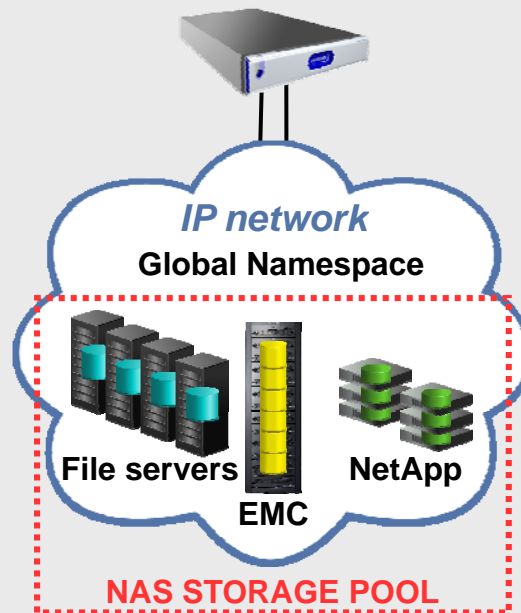
EMC Infrastructure Virtualization

Server virtualization with VMware Infrastructure 3*

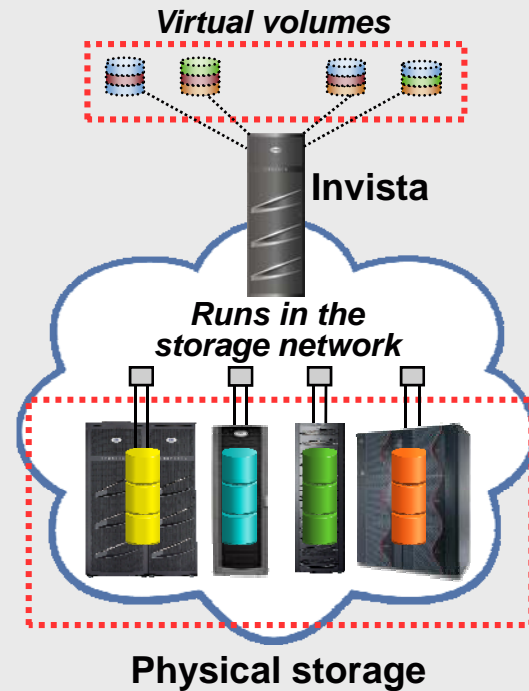


Servers

File storage virtualization with EMC Rainfinity Global File Virtualization

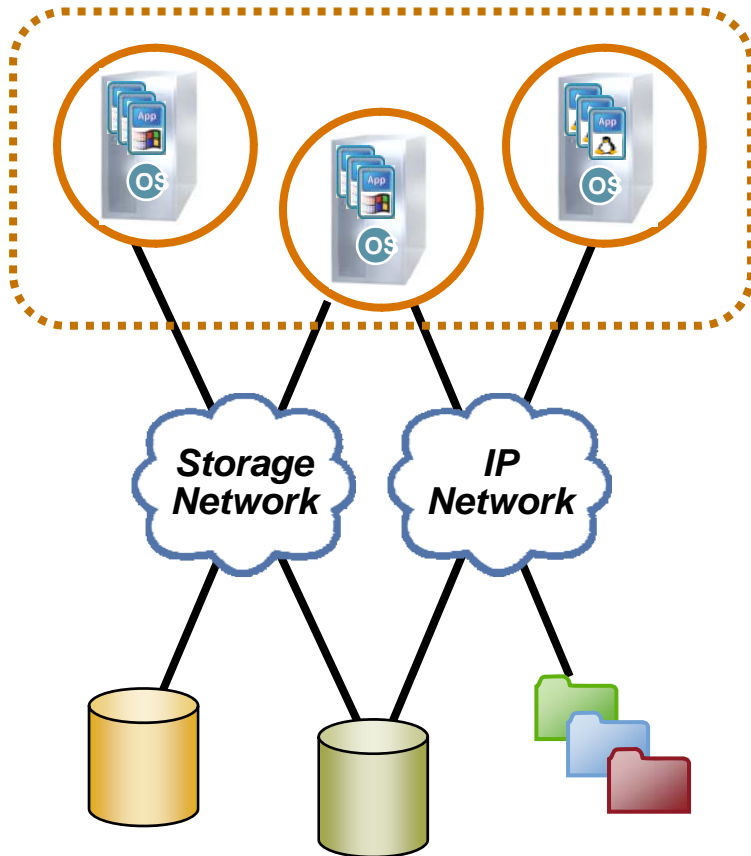


Block storage virtualization with EMC Invista



*Formerly ESX Server

The Near Term Solution: Some Resources Virtualized



Install operating systems
Authenticate users or applications
Allocate server resources

Effect
Online: ●

Set up storage environments (disk, SAN, or NAS)
Configure networks

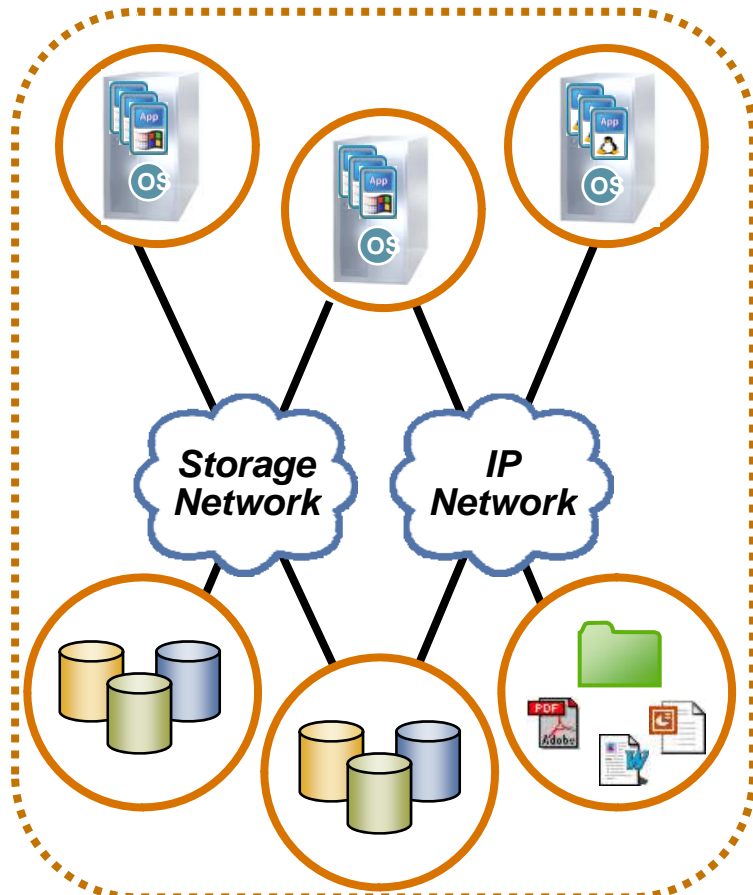
Effect
Online: ●

Allocate storage resources –leading reason for forcing systems offline

Effect
Online: ●

Point virtualization technologies can accomplish near-term goals but create long-term problems.

The Long Term Vision: All Resources Virtualized



**Virtualization of all resources
enables dynamic online operation.**

Install operating systems

Authenticate users or
applications

Allocate server resources

Effect
Online: ●

Set up storage environments (disk, SAN,
or NAS)

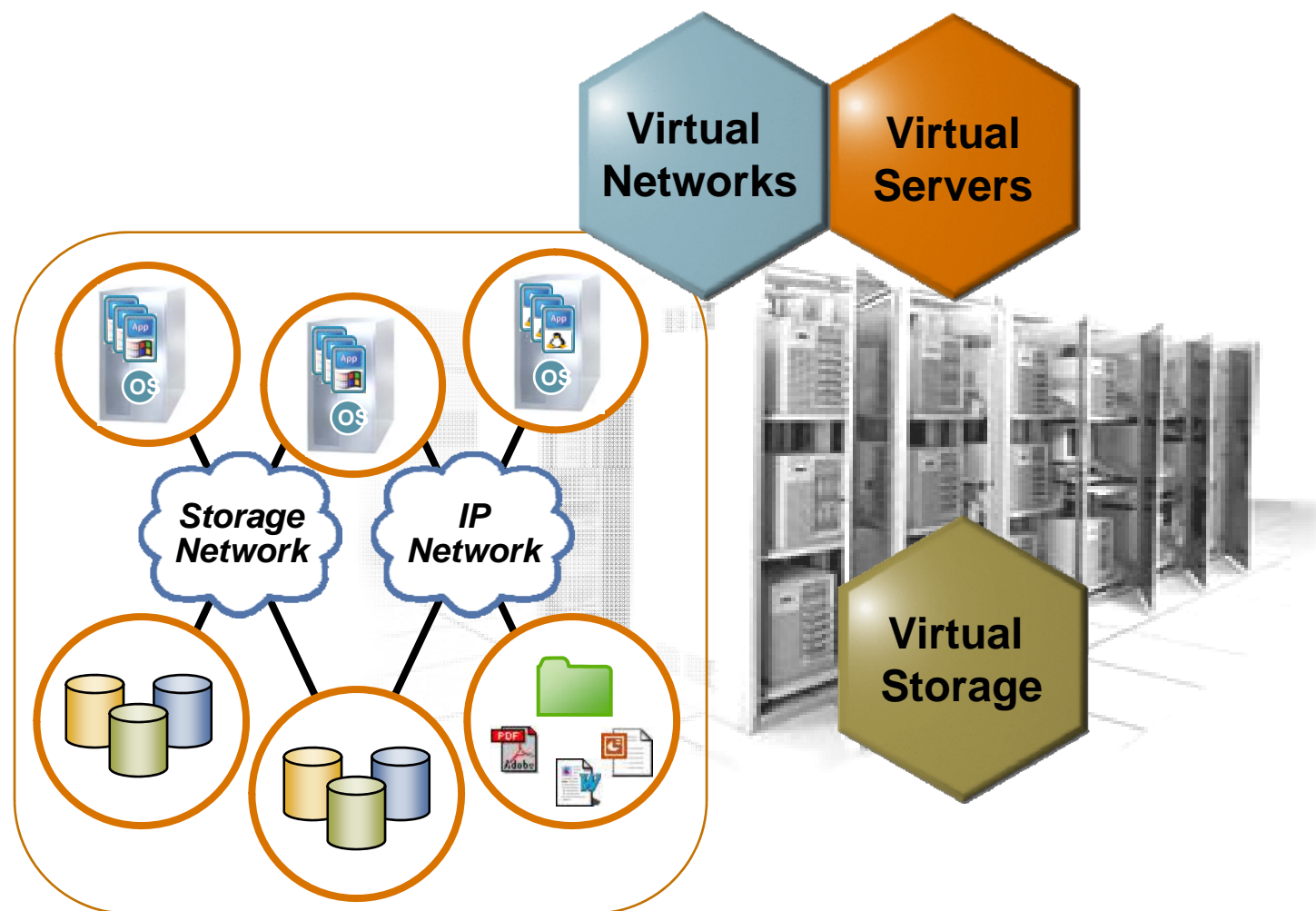
Configure networks

Effect
Online: ●

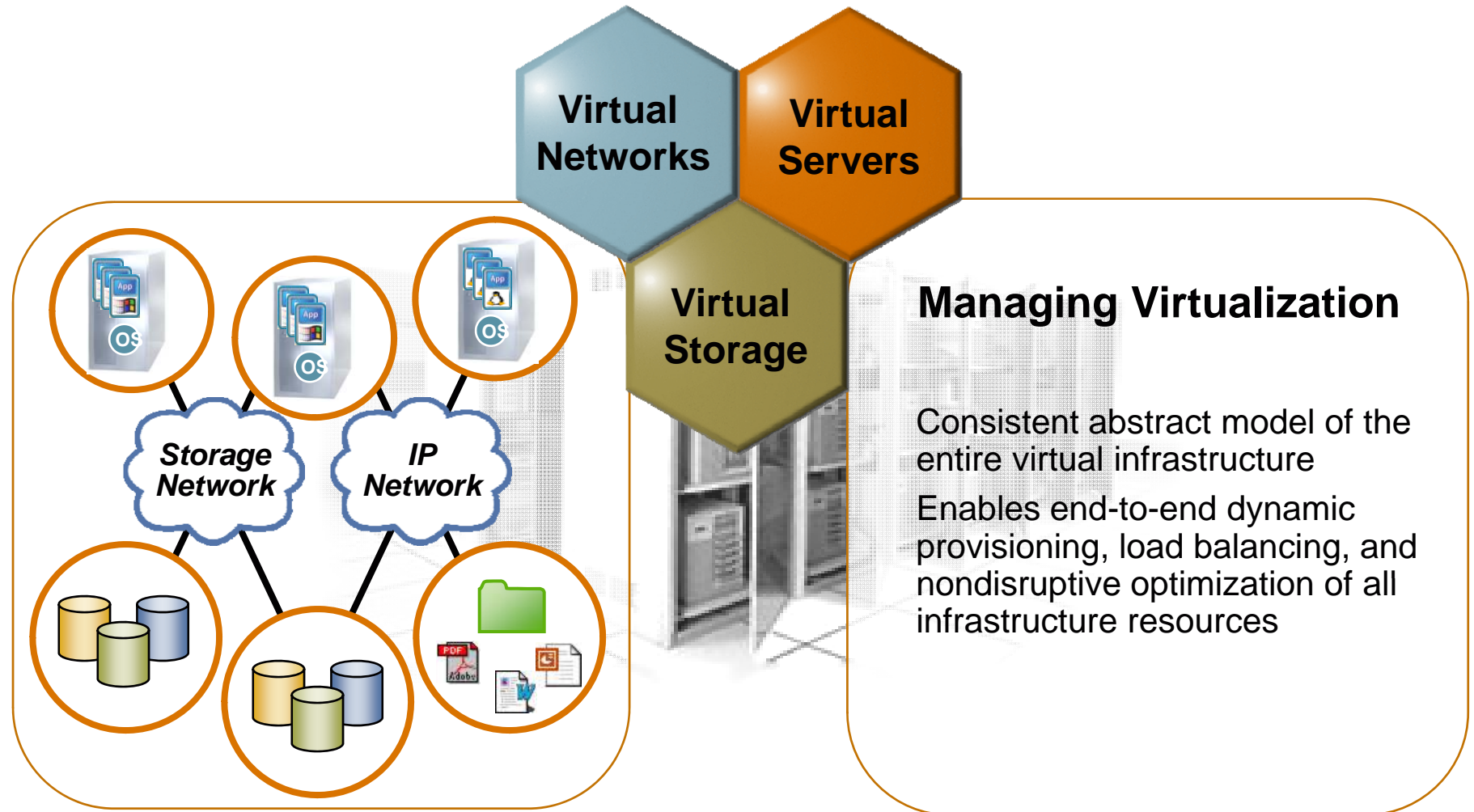
Allocate storage resources to and from the
available pool

Effect
Online: ●

A Unified Virtualization Infrastructure



A Unified Virtualization Infrastructure



EMC²[®]

where information lives[®]