

VMWARE VIN

International Computerware, Inc.

VMware's VIN (virtual infrastructure node) is a modern day solution with capabilities for the data center that will move enterprises closer to the promises of utility computing. Virtual infrastructure simplifies IT so companies can more effectively leverage their storage, network, and computing resources to control costs and respond faster.



Why VMWare VIN? (Virtual Infrastructure Node)

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What is Virtual Infrastructure?

Virtual infrastructure provides a layer of abstraction between the computing, storage and networking hardware, and the software that runs on it.

With virtual infrastructure, users see resources as if they were dedicated to them. The administrator manages and optimizes resources across the data center.

Why is Virtual Infrastructure important?

Virtual infrastructure enables businesses to lower IT cost through increased efficiency, flexibility and responsiveness. Managing virtual infrastructure

enables IT to connect resources to business needs quickly and consistently. With Virtual Infrastructure, IT organizations can provision new services and change the amount of resources dedicated to a software service. A data center can be treated as a single pool of processing, storage and networking power. Virtual infrastructure lets organizations optimize their data center and move towards utility computing

What is VirtualCenter?

VirtualCenter is virtual infrastructure management software that centrally manages an enterprise's

virtual machines as a single, logical pool of resources. VirtualCenter provides:

- ✓ Centralized virtual machine management. Manage hundreds of virtual machines from one location through robust access controls.
- ✓ Monitor system availability and performance. Configure automated notifications and e-mail alerts.
- ✓ Instant provisioning. Reduces server-provisioning time from weeks to tens of seconds.
- ✓ Zero-downtime maintenance. Safeguards business continuity 24/7, without service interruptions for hardware maintenance,

deployment, or migration. Continuous workload consolidation. Optimizes the utilization of data center resources to minimize unused capacity. SDK. Closely integrates 3rd-party management software with VirtualCenter, so that the solutions you use today will work seamlessly within virtual infrastructure. With VirtualCenter, an administrator can manage thousands of Microsoft® Windows NT®, Windows 2000®, Windows 2003, Linux and Novell® NetWare® servers from a single point of control.

What hardware and software is needed to implement virtual infrastructure?

IT organizations implement virtual infrastructure by using VMware® VirtualCenter to manage multiple ESX Server™ and GSX Server™ hosts across their entire IT infrastructure.

What is VMotion™ technology?

VMotion technology lets you move live, running virtual machines from one host to another while maintaining continuous service availability. VMotion transfers the entire system and memory state of a running virtual machine from one ESX Server to another. VMotion allows fast re-configuration and optimization of resources across the virtual infrastructure because you can make changes on the fly, without impacting users. VMotion enables zero-downtime maintenance and continuous workload consolidation for ESX Server hosts.

What hardware and software is needed to implement VMotion™?

VMotion technology requires VirtualCenter and at least two ESX Server hosts each with VMotion and a VirtualCenter Agent. Each ESX Server host must be running on hardware connected to a SAN. Recommended networking equipment is Gigabit Ethernet between the ESX Servers. The ESX Server must be version 2.0.1 or above. In addition, VMotion is a key component to the ESX Server Virtual Infrastructure Node (VIN). The ESX Server VIN is comprised of

ESX Server, VMware Virtual SMP, VMotion and a VirtualCenter Agent.

Does VirtualCenter compete with offerings from HP and IBM?

No. HP and IBM leverage VMware's virtual infrastructure to provide these capabilities on the x86 platform. VirtualCenter works at the foundation level with HP's Adaptive Enterprise and IBM's On-demand eBusiness initiatives. These architectures offer consistent capabilities across mainframe, Unix and Intel environments – that's why HP and IBM have distribution, support and reselling agreements with VMware today.

Who can support deployments of these products?

International Computerware, Inc (ICI) Professional Services can deliver deployment and implementation of key virtual infrastructure services, including customization, rapid cut-over, and best practices consulting. In addition, ICI has expertise with integrating VMWare into your EMC Storage Environment(s).

Will VirtualCenter require changes to my existing hardware and software infrastructure?

No. VirtualCenter works on top of hardware and software infrastructure you already have. It works on all x86-architecture server form factors from blades up to 8 and 16 CPU servers. As hardware is replaced, VirtualCenter allows easy transition of applications and OS stacks to new hardware.

Does my software need to be upgraded or integrated to work with VirtualCenter?

No. Any application that runs on a supported operating system on x86-architecture servers will run without any changes under VirtualCenter and ESX Server or GSX Server. Software that manages data center environments will work as well. VirtualCenter has an SDK that major ISVs are using to closely integrate their management software with VirtualCenter, so that the solutions used

today will work seamlessly in any virtual infrastructure.

How do I get started?

If you would like to purchase, evaluate or get more information about VMware VirtualCenter, ICI can assist with the provisioning, design and deployment of VMWare products.

If you'd like to contact ICI directly, you can reach a sales representative at 508-481-5100 or e-mail sales@iciamerica.com. When emailing, please include the state, country and company name from which you are inquiring.

Thank you.

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