



Virtualization

A strategy to simplify & reduce costs

Virtualization is the abstraction of computing resources across physical hardware, and is gaining rapid adoption in the marketplace, as organizations seek to expand capabilities while controlling complexity & costs. There are many virtualization products available, which complicates the process of developing a virtualization plan, but North American Systems International has the technical and industry know-how that can help you design a solution that best enables you to maximize control and manage costs.

CONSOLIDATE

Virtualization allows a single physical server to be divided into multiple “virtual servers” which can handle heterogeneous workloads & applications simultaneously. Reducing the amount of physical servers simplifies your architecture by providing an architecture that can support various applications & operating systems. This strategy saves costs by reducing redundant hardware components while minimizing maintenance, power & cooling requirements.

SIMPLIFY

Minimizing the number of physical systems reduces complexity, enabling administrative staff to centrally manage & provision computing power. With a top-down view of resource utilization, staff can proactively approach potential issues before they become problems, and enact policies and procedures to monitor, anticipate and prevent administrative nightmares.

MAXIMIZE AVAILABILITY

By being able to manage multiple workloads on a single physical system, organizations can afford to invest in high quality hardware that includes enterprise RAS (reliability, availability, serviceability) features. In addition, virtualization can figure prominently into your business continuity & resiliency planning by greatly simplifying the tasks of performing remote replication for disaster recovery scenarios, or having a mirrored failover system available for high availability requirements.

GAIN FLEXIBILITY & AGILITY

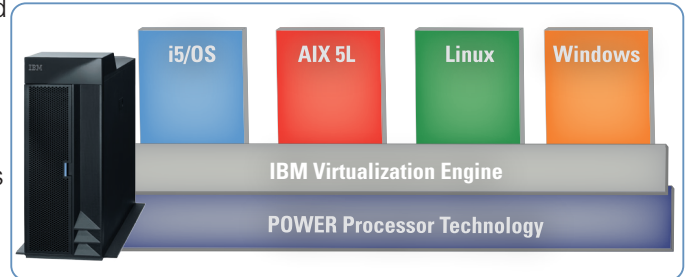
Rapidly plan, test and deploy new applications with virtualization technology. A physical system split into multiple virtual machines allows new solutions to be developed and staged prior to implementation. In addition, by breaking down physical walls and allowing infrastructure to be managed logically, you can dynamically allocate computing resources, and align IT with business requirements.

“Virtualization decouples the application from the underlying hardware and allows customers to create service-oriented infrastructure whereby they can begin to manage services and employ policy-based automation to manage and deliver the underlying infrastructure.” - John Humphreys, Analyst, IDC Research



SERVER VIRTUALIZATION WITH IBM

IBM's POWER™-based System i™ and System p™ platforms deliver an enterprise-class virtualization platform. A pioneer in developing virtualization technologies, IBM's advanced virtualization technology includes the ability to automatically balance, and dynamically provision and reconfigure the allocation of computing resources (including I/O & memory) across multiple workloads on various operating environments.



IBM's System x™ & BladeCenter™ server technologies integrate seamlessly with VMware's virtualization tools, and provide an ideally scalable & reliable platform for enabling x86 server virtualization.

VMWARE VIRTUALIZATION

VMware is the most widely deployed software suite for optimizing and managing heterogeneous IT infrastructure on a single platform. This virtualization technology enables existing systems to be divided into multiple virtual servers with minimal changes to your existing applications and configurations.

VMware Server Consolidation Components

VMware Infrastructure

The most widely deployed software suite for x86 server virtualization includes: the ESX server virtualization layer, VMotion to enable live virtual machine migrations, and VMware DRS to aggregate multiple servers into a single resource pool of processors, memory, disk and networking bandwidth.

VMware VirtualCenter

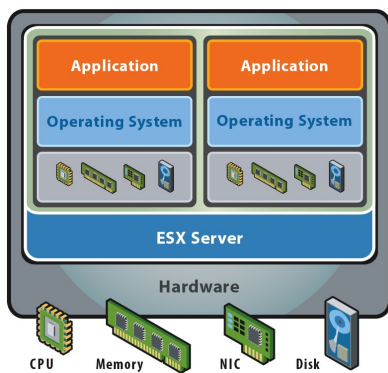
This comprehensive management suite centralizes the automation, optimization, and high availability functionality for consolidated and virtualized IT environments.

VMware P2V Assistant

To speed the conversion of your windows servers into virtual machines, you can utilize VMware P2V Assistant to automate the process

VMware DRS

VMware DRS removes dependencies between applications and hardware, enabling the construction of a single resource pool that application can draw from as needed. This software continuously balances workloads, following rules you establish, and automatically allocating additional resources as needed.



STORAGE VIRTUALIZATION

NASI Solutions Group is a division of North American Systems that custom-designs storage virtualization solutions that enable businesses to consolidate & simplify their storage infrastructure. By leveraging technologies such as SAN, NAS, WAFS, FAN, iSCSI, IP SAN, iSCSI, Fibre Channel, SAS, SATA, VTL & CDP, our solutions architects help you select the right mix of technology from the right vendors to align your IT infrastructure with business goals & needs.