



Virtualization



Server Virtualization

SERVER CONSOLIDATION

One of the main benefits of server virtualization is server consolidation. The Physical to Virtual Conversion tool can be used to achieve this. Consolidating servers onto a virtual server allows for maximum utilization of server resources while still having enough headroom to handle peak usage – even with multiple VMs running.

OPERATING EFFICIENCY

VMWare's vCenter technology offers a centralized interface for managing the entire VMWare network environment. With vCenter, you can manage both physical hosts and virtual systems, remote control virtual machines, and view aggregate performance monitoring of clusters, physical hosts and virtual machines. When compared to provisioning a new physical server, provisioning a new virtual machine is quick, and can be done from a template. VMWare vCenter also includes Update Manager, which is a full featured patch management solution. It provides automated scanning and patching of hosts and virtual machines, and allows a virtual machine to be rolled back to a previous point in time in the event that an issue with a patch is encountered.

SCALABILITY

With hot add and a compatible operating system, CPU, memory and storage can be added to virtual machines as needed, without any downtime.

HIGH AVAILABILITY

VMWare vMotion and VMWare Storage vMotion eliminate the need to schedule application downtime due to planned maintenance, for both server and storage hardware, respectively, with no loss of service or disruption to users. This is accomplished through live migration of virtual machines and virtual machine disks.

UNPLANNED DOWNTIME

VMWare vMotion technology doesn't only handle planned maintenance and smooth transitions from old hardware; it is also of great importance in the event of a hardware or operating system failure. VMWare vMotion can automatically restart a virtual machine on a different physical server, when a server or operating system failure is detected. If a virtual machine is mirrored, instantaneous failover to the mirrored virtual machine can be achieved without data loss or disruption of service, in the event of a server failure.

STORAGE

VMWare vStorage services abstract away the complexity of back-end storage systems and enable the most efficient utilization of storage in virtual environments. Included in vStorage are two important features: vStorage VMFS and vStorage Thin Provisioning. VMFS is a high performance clustering file system which manages complex storage hardware, so that applications don't have to. VMFS also allows efficient sharing and controls concurrent access to storage by virtual machines.





Desktop Virtualization

SIMPLIFIED DESKTOP MANAGEMENT

Desktop and application virtualization breaks the bonds between the operating system, applications, user data and hardware, eliminating the need to install or manage desktop environments on end-user devices. From a central location you can deliver, manage and update all of your Windows desktops and applications in minutes. VMware View makes the testing, provisioning and support of applications and desktops much easier and less costly.

AUTOMATED DESKTOP PROVISIONING

VMware View Manager provides a single management tool to provision new desktops or groups of desktops, and an easy interface for setting desktop policies. Using a template, you can customize virtual pools of desktops and easily set policies, such as how many virtual machines can be in a pool, or logoff parameters. This feature enables greater IT efficiency by automating and centralizing desktop provisioning activities.

STREAMLINED APPLICATION MANAGEMENT

VMware ThinApp application virtualization separates applications from underlying operating systems for increased compatibility and streamlined application management. Applications packaged with VMware ThinApp can be run in the datacenter where they are accessible through a shortcut on the virtual desktop, reducing the size of the desktop image and minimizing storage needs.

Since VMware ThinApp isolates and virtualizes applications, multiple applications or multiple versions of the same applications can run on the virtual desktops without conflict. Applications are assigned centrally through View Manager, ensuring that all user desktops are up-to-date with the latest application versions.

SUPERIOR END USER EXPERIENCE

Address the broadest range of use cases and deployment options with VMware View's PCoIP desktop display protocol, and deliver a high-performance desktop experience, even over high latency and low bandwidth connections. The adaptive capabilities of the PCoIP display protocol are optimized to deliver virtual desktops to users on the LAN or over the WAN. VMware View gives users access to their virtual desktops over a wide variety of devices, without any performance degradation. End-users enjoy a seamless desktop experience with the ability to play rich media content, choose from various monitor configurations and easily access locally attached peripherals such as scanners and mass storage devices.

REDUCE OPERATIONAL EXPENDITURE

Streamline and automate desktop management, deployment, maintenance and support with VMware View. A recent IDC study shows that VMware View Customers, on average, are able to save 55% on their operational expense when compared to a traditional desktop. VMware View customers are realizing significant savings in the following areas:

