Virtualizing Citrix XenApp on HP Integrated XenServer

Optimized solution for consolidating and streamlining application delivery infrastructure

Integrated virtualization for XenApp—done right!

"Considering the levels of performance degradation that are commonly found in the real world, achieving virtualization… with less than 10 percent performance overhead…is an indication that Citrix has succeeded in tuning XenServer to virtualize XenApp workloads."

– The Tolly Group, May 2008

Virtualization hesitation

For years, you have enjoyed the benefits of application virtualization from your Citrix XenApp implementation including centralized management, increased security and data protection, and support for flexible work-styles and devices. With today's objectives to cut costs and improve efficiency, you would like to reduce server sprawl and footprint—as well as cut the power and cooling costs associated with application delivery—without impacting the high availability to business-critical applications and resources your users have come to expect.

Server virtualizaton would seem the obvious solution, as it has been for so many other workloads. But virtualizing XenApp workloads has historically been very difficult to implement successfully—mostly due to significant overhead in early-generation virtualization products, sometimes 40 percent or more.

HP Integrated XenServer changes the game

HP and Citrix have collaborated to make HP Integrated XenServer the ideal solution for virtualizing XenApp workloads, imposing as little as 10 percent overhead. With more than half of all XenApp implementations running on HP ProLiant servers, HP Integrated XenServer is the obvious solution for extending the benefits of server virtualization to your XenApp infrastructure.

With this comprehensive, next-generation virtualization solution, you can consolidate and expand your XenApp application delivery environment without adding costs—as well as free up existing resources—while increasing utilization.

Your partners in virtualization

Strategic partners since 1996, HP and Citrix collaborate to deliver innovative solutions for your toughest business challenges. And as pioneers in virtualization technology, we understand what it takes to design a best-fit virtualization solution, tailored to your unique business needs. For example, you can start with Citrix XenApp with HP Integrated XenServer Enterprise Edition (described below) and the 8-slot HP BladeSystem c3000 enclosure. As your business needs evolve, you can easily upgrade to the 16-slot HP Blade System c7000 enclosure.

Solution benefits

- Reduce infrastructure costs
- Consolidate underutilized servers
- Support both 32-bit and 64-bit application environments
- Increase server utilization and application availability

XenApp – transforming your data center into a delivery center

Citrix XenApp 5 is a Microsoft® Windows® application delivery system that manages and virtualizes all applications in your data center for optimal application performance and flexible delivery. With it, you can deliver all Windows applications to office, task and mobile users on demand—either run centrally from the data center or streamed to users' devices.

With more than 100 million users and 99 percent of the Fortune Global 500 as customers, XenApp is a leader in delivering Windows-based applications with outstanding performance, security and cost-saving benefits.

HP Integrated XenServer

Working together, HP and Citrix have devised a revolutionary way of implementing virtualization technology. We combined powerful Citrix XenServer software with virtualization-ready HP ProLiant servers and HP ProLiant Virtual Console (HP PVC) management software to deliver a comprehensive, feature-rich solution. Using HP Integrated XenServer, you can deploy virtualized solutions with confidence.

HP Integrated XenServer Enterprise Edition delivers the advanced features required by mission-critical workloads, without sacrificing the ease-of-use necessary for wide-scale deployments. This high-powered solution enables you to manage your virtualized servers and virtual machines using the same tools in the same way that you currently manage your physical HP ProLiant servers. Using HP PVC, you can adopt virtualization without having to learn and deploy new management tools. You will save time, money and effort—and your virtual environment will be available immediately.

Enterprise Edition includes the following features:

- Integration with HP PVC, a graphical user interface (GUI)-based virtual server management solution available only with HP Integrated XenServer
- Storage integration
- Simple network management protocol agents for HP management technology including HP Systems Insight Manager, HP Integrated Lights Out 2 and more

- Citrix XenCenter for full lifecycle management of virtual machines across multiple servers; virtual storage repositories and networking, real-time and trended graphing of virtual machines, total server performance metrics, and much more
- Automated high availability and network interface card (NIC) bonding
- Windows Server 2008 "enlightenments"

Providing the power to virtualize

According to a recent Citrix survey, over 50 percent of all Citrix XenApp installations worldwide run on HP platforms. These organizations have learned the value of a highly adaptive infrastructure, powered by flexible HP servers. You can, too, when you choose an HP BladeSystem c-Class infrastructure or HP ProLiant servers to drive your application virtualization solution.

HP BladeSystem c-Class – With this highly adaptive infrastructure in a box, you can build vital business solutions that are more affordable, take less time to manage, enable you to meet green initiatives, and are ready to grow. HP BladeSystem is designed to share components between enclosures, making it fast and easy to create, customize and grow your IT infrastructure.

HP ProLiant servers – This top-selling platform demonstrates the ongoing HP commitment to provide a complete server infrastructure that supports both business objectives and business growth. To complement your virtualized XenApp environment, HP ProLiant servers are available with an extensive selection of management tools; these tools are seamlessly integrated with Citrix XenServer and XenApp, as well as HP storage and networking products.

Your next step

Call your HP sales representative today to arrange for an assessment of your business environment. Discover how an application virtualization solution from HP and Citrix can boost your organization's success by streamlining administration and management, improving system agility and flexibility, increasing application availability, and cutting power and cooling costs by up to 50 percent.

Technology for better business outcomes

For more information, visit www.hp.com/solutions/citrix and www.citrix.com/hpvirtualization