



## Virtualization for every server in the enterprise

Citrix XenServer provides server virtualization for rapid deployment and efficient management of server workloads across your entire enterprise.

Citrix® XenServer™ is a server virtualization system that makes datacenters more agile and efficient through faster application delivery, higher levels of availability and improved utilization of IT resources.

XenServer delivers the advanced features required by mission critical workloads (operating systems, applications and configurations) without sacrificing the ease-of-use necessary for wide-scale deployments. And XenServer's unique streaming technology can rapidly deliver workloads across virtual or physical servers making it the ideal virtualization platform for every server in the enterprise.

### Optimize server and storage infrastructure

With Citrix XenServer, businesses can make more efficient use of server and storage resources. XenServer can run more virtual machines on a single physical server thanks to its powerful open source Xen® hypervisor, efficient CPU and memory management, and hardware assisted I/O virtualization. XenServer's performance monitoring coupled with live migration and unique workload provisioning technology helps organizations balance computing resources across multiple servers for enterprise-wide optimization. These capabilities along with improved storage utilization from XenServer's dynamic workload provisioning allow organizations to achieve dramatic savings in IT administration, equipment, space, power and cooling.

### Accelerate the delivery of server workloads

Citrix XenServer accelerates the delivery of applications through tools for provisioning server workloads. XenServer allows multiple servers to boot and run from a single shared image by dynamically provisioning server workloads to both virtual and physical servers. Dynamic workload provisioning eliminates storage normally required for individual server workload images, speeds the time to deliver applications and reduces the administrative burden of patching and upgrading multiple servers. XenServer also includes virtual machine provisioning templates, live migration and virtual machine auto placement allowing administrators to easily deploy and manage virtual server workloads for faster IT delivery.

## Simplify the management of virtual infrastructure

XenServer includes powerful tools for managing virtual servers and virtual storage infrastructure. A simple, scalable management architecture allows XenServer users to group physical servers and storage resources into pools wherein users can easily provision, search, monitor, migrate and even protect virtual machines with automated high availability. XenServer also enables flexible, yet simple storage management of virtual machines by plugging directly into array-based storage services such as thin provisioning, snapshots, replication and deduplication.

## Editions:

Citrix XenServer is available in four editions:

### Platinum Edition:

- For enterprise environments looking to streamline the way applications and servers get deployed. The Platinum Edition not only virtualizes server workloads but also provides dynamic workload provisioning to either virtual or physical servers.

### Enterprise Edition:

- For server environments with demanding uptime requirements, the Enterprise Edition provides flexible, aggregated pools of computing and shared storage resources with live migration and high availability.

### Standard Edition:

- For a multi-server environments with demanding workloads, the Standard Edition is a feature-rich server virtualization solution with multi-server management and enterprise scalability for business-critical workloads.

### Express Edition:

- For single server deployments and static workloads, the Express Edition is a free starter edition that brings virtualization to every server in the enterprise.

## Key features

		Platinum Edition	Enterprise Edition	Standard Edition	Express Edition
<b>High Performance Architecture</b>					
Open source Xen hypervisor	XenServer is based on the open source Xen hypervisor, an exceptionally lean technology that delivers low overhead and near-native performance. Leveraging both Intel® VT platforms and AMD® Virtualization (AMD-V™) platforms for hardware assisted virtualization XenServer delivers faster, more efficient virtualization computing.	•	•	•	•
<b>NEW</b> XenApp on XenServer	XenServer has been further optimized with Citrix XenApp, delivering dramatically improved performance resulting in more guest systems, more users and faster response times.	•	•	•	•
Resource optimization	Administrators have fine-grained control of CPU, network and disk with the ability to set priority levels to deliver optimal performance for guest systems. Additionally, the latest release of XenServer uses even less memory for improved performance and scalability of virtual infrastructure.	•	•	•	•
Microsoft Windows optimization	XenServer is Microsoft Windows Certified and delivers optimal performance with new Windows storage drivers that help reduce overhead and increase performance when used with multiple virtual disks.	•	•	•	•
<b>Dynamic Workload Management</b>					
Dynamic workload provisioning	Provision server workloads on-demand to multiple physical or virtual servers by streaming them from a single, shared operating system image. This reduces the cost of patch and update management while dramatically reducing the storage footprint of OS and application images throughout the enterprise.	•			
Live migration with XenMotion	Virtual machines can be moved from server to server without service interruption for zero-downtime server maintenance or to take advantage of available compute power within a pool of physical servers.	•	•		
Rapid virtual machine provisioning	Virtual machines can be converted to templates for rapid provisioning of similar systems on a server or resource pool. With local or NFS file-backed storage or integrated NetApp and Dell EqualLogic storage, newly cloned guests can be available in seconds.	•	•	•	
Dynamic workload allocation	Auto-placement of virtual machines according to priority and available physical resources helps deliver optimal performance of critical server workloads.	•	•		

## Key features

		Platinum Edition	Enterprise Edition	Standard Edition	Express Edition	
<b>Business Continuity</b>						
<b>NEW</b>	Automated high availability	Resource pools can now be configured with automated high-availability protection allowing virtual machines on a failed host to automatically restart on another physical server according to priority and resource availability.	•	•		
<b>NEW</b>	Disaster recovery	Integrated disaster recovery with support for remote SAN storage replication provides a fast way to migrate entire resource pools to another physical site and continue running services with little interruption.	•	•		
	Redundant networking	Redundant network links (via NIC bonding) help ensure continuous heartbeats and network reliability by supporting active/active NIC aggregation, permitting full use of all available bandwidth while still maintaining redundant links.	•	•	•	•
<b>Virtual Storage Infrastructure</b>						
	Local storage support	Support for a wide range of local storage options including IDE, SATA, SCSI and SAS.	•	•	•	•
	Shared storage	Shared storage configurations for iSCSI, fibre channel and NFS enable the allocation and sharing of disk resources among virtual machines, including the facilitation of live migration and high availability.	•	•		
<b>NEW</b>	Adapters for native storage services	Provides integrated access to optimized storage services including fast cloning, thin provisioning, snapshot and deduplication automatically from XenServer management interfaces (Includes adapters for NetApp Data Ontap and Dell EqualLogic).	•	•		
<b>NEW</b>	Storage wizards	Edit settings on existing storage repositories and use workflows for detaching and reattaching storage repositories.	•	•		
	Integrated multipath support	Fibre Channel and iSCSI multi-path I/O support, configurable from within XenCenter, ensure redundant storage links to fibre channel or iSCSI to prevent loss of service.	•	•		
<b>Infrastructure Management</b>						
	Peer-to-peer <i>self-healing</i> architecture	Unlike other management consoles, XenCenter distributes management data across servers in a resource pool to ensure that there is no single point of management failure. If a management server should fail, any other server in the pool can take over the management role.	•	•	•	•
<b>NEW</b>	Search, sorting and tagging	User-defined grouping and metadata tags allow simple, powerful searching and sorting capabilities across virtual machines, hosts and resource pools based on custom fields to help administrators easily identify and manage virtual infrastructure.	•	•	•	•
<b>NEW</b>	Performance monitoring and trending	New persistent performance statistics across resource pools provide real time monitoring as well as graphical trending of virtual machine performance and total server performance metrics including CPU, memory, disk I/O and network I/O.	•	•	•	•
<b>NEW</b>	XenConvert	Facilitate the conversion of physical server workloads (OS, application and configuration) to XenServer virtual infrastructure to ease the transition from physical to virtual machines. Tools are also available to convert existing Microsoft and VMware virtual machines to the XenServer format.	•	•	•	•
<b>NEW</b>	Configuration and failure alerts	XenServer now provides e-mail and XenCenter alerts for potentially detrimental changes to configurations as well as alerts on host failures.	•	•	•	•

## Technical Specifications

64-bit and 32-bit support	XenServer is a native 64-bit virtualization platform that supports 64-bit and 32-bit virtual server workloads.
Physical hosts	Handles up to 32 processors and up to 128 GB of RAM on a physical host.
Guest virtual machines	Handles up to 32GB of memory and 8 virtual CPUs per virtual machine for memory and CPU intensive workloads.
10Gb Ethernet networking	Supports adapters for high-speed enterprise networks.

**Citrix Delivery Center** is the first solution on the market with the ability to deliver applications and desktops to any user, anytime, anywhere from a secure central location. The Citrix Delivery Center™ product family features our primary product lines: Citrix XenApp™ — the new name for Citrix Presentation Server™ — Citrix® NetScaler®, Citrix XenServer™, Citrix XenDesktop™, and Citrix Workflow Studio™.

**Citrix XenApp** is the industry's de facto standard for delivering Windows-based applications enabling the best performance, security and cost savings. With more than 70 million users and 99 percent of the *Fortune* Global 500 as customers, it uses state-of-the-art client- and server-side application virtualization to deliver applications to office and mobile workers from a secure centralized location.

**Citrix NetScaler** is a purpose-built Web application delivery solution that accelerates application performance up to five times while improving security and reducing Web infrastructure costs. It is also the delivery infrastructure of choice for most of the world's largest Web sites, touching an estimated 75 percent of all Internet users each day.

**Citrix XenServer** is an enterprise-class solution for virtualizing application workloads across any number of servers in the datacenter as a flexible aggregated pool of computing resources. It is the first solution to provision application workloads across physical and virtual servers making the entire datacenter more dynamic.

**Citrix XenDesktop** is the industry's first comprehensive Virtual Desktop Infrastructure (VDI) solution. It enables simple, secure and cost effective delivery of Windows desktops to any office worker with an unparalleled user experience.

**Citrix Workflow Studio** is an orchestration tool that allows administrators to far more easily create and integrate application delivery processes across Citrix and third-party products, allowing them to work together as a single cohesive system.

The Citrix Delivery Center includes the following solutions which are part of the product lines listed above. These are also available as standalone options:

- Citrix Access Gateway™ — for secure application access. Empowers users with easy “anywhere” access and provides administrators market-leading application-level control.
- Citrix® Branch Repeater™ — for the productive enterprise branch. Deliver optimized applications and desktops from Citrix Delivery Center™ to branch users integrated with local branch services.
- Citrix EdgeSight™ — for the best end-user experience. Increases user productivity by centrally monitoring and managing the performance and availability of applications.
- Citrix Password Manager™ — for enterprise single sign-on. Improves password security and user productivity with the industry's most secure, efficient, and easy-to-deploy enterprise single sign-on solution.
- Citrix Provisioning Server™ — for datacenter and for desktop systems. Provisioning Server for Datacenters uses streaming technology to deliver workloads on-demand to physical or virtual servers. Provisioning Server for Desktops streams operating systems and software on-demand to physical desktops. Centralized system provisioning reduces operating costs, and improves security, flexibility and reliability.
- Citrix WANScaler™ — for branch and mobile user application delivery. Accelerates application performance over the WAN by 5 to 30x and deliver LAN-like productivity for WAN-based applications.

#### Test drive Citrix XenServer

Experience the simplicity, cost-effectiveness and power of XenServer on your own servers. Download a 30-day trial at [www.citrix.com/xenserver/try](http://www.citrix.com/xenserver/try) today.

#### About Citrix

Citrix Systems, Inc. (Nasdaq:CTXS) is the global leader and the most trusted name in application delivery infrastructure. More than 200,000 organizations worldwide rely on Citrix to deliver any application to users anywhere with the best performance, highest security and lowest cost. Citrix customers include 100% of the *Fortune* 100 companies and 99% of the *Fortune* Global 500, as well as hundreds of thousands of small businesses and prosumers. Citrix has approximately 6,200 channel and alliance partners in more than 100 countries. Annual revenue in 2007 was \$1.4 billion.

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The Citrix logo consists of the word "CITRIX" in a bold, black, sans-serif font. The letter "i" is lowercase and has a dot above it. A registered trademark symbol (®) is located to the upper right of the "X".