

Corporations, OEMs and home offices can't afford the costs associated with server downtime.

Today's Challenges with System Security, Protection and Recovery:

Keeping servers online directly contributes to a company's revenue and downtime can be very costly and potentially devastating. Increasing numbers of new applications and solutions create enormously complex IT infrastructures. IT organizations are burdened with the challenges of growing complexity in their infrastructure, reducing budgets to manage and maintain the growing complexity, and the need for improving service levels for end users and customers.

There is also the added burden of new virus and worm outbreaks, an onslaught of patches and updates that must be implemented and the requirement to keep all servers online at all times. It is essential in today's global economy to keep servers on line 24x7 365 days of the year. Current methods of server recovery require too much downtime and are not adequate for most enterprise environments.

Downtime for Traditional Server Recovery Methods:

Traditional Method 1	Time	Traditional Method 2	Time	ShadowServer ShadowMode Session	Time
Re-load operating system from REBOOT	2-4 hrs.	Reboot server to another operating environment Locate backup image	45 min.	Save desired changes to files and folders REBOOT	1 min.
Download and apply patches MULTIPLE REBOOTS	1 hrs.	Restore the entire backup image REBOOT	1-3 hrs.	COMPLETE	2 min.
Re-install applications	1-2 hrs.	COMPLETE	3 hrs.		
Re-configure settings and desired look and feel COMPLETE	1-2 hrs. 5 hrs.				

ShadowServer Introduction:

ShadowStor™ ShadowServer™ is the solution to help enterprise IT organizations accomplish the task of keeping all servers online at all times. ShadowServer provides high availability for servers so that downtime and the associated costs are held to a minimum. ShadowServer minimizes server downtime for corporate IT organizations, OEMs and home users as fast as it takes to reboot the system.

ShadowServer™ provides non-restrictive, easy to use server protection for Windows NT, 2000 and 2003 servers. ShadowServer is the best way to prevent unwanted or deliberate changes from being made to a server. ShadowServer is your first line of defense, reducing the time and cost associated with re-installing the operating system, restoring from an image or recovering from a tape backup. At anytime, authorized users can save changes to the system, save selected files and folders or simply return the system to its pre-ShadowMode state. ShadowMode bullet proofs your servers.

Place your server in ShadowMode and:

- **Reduce Total Cost of Ownership** - Reduce the TCO for managing and maintaining your servers by simply rolling the system back to an optimal state.
- **Improve System Performance** - Configure your servers ONCE and run in that optimal state at all times. No need to spend time troubleshooting system performance issues.
- **Maximize System Uptime** - Maximize server uptime by instantly undoing accidental or malicious changes to your servers. Avoid the costs associated with server downtime.
- **Improve System Security** - Prevent downtime and system damage due to virus and worm outbreaks. Avoid the virus or worm from ever being written to the server.
- **Increase Stability** - Safely test updates, service packs, new applications and patches before permanently saving changes to your server.
- **Save Time** - IT budgets are shrinking and personnel numbers are being reduced, so optimal use of resources is critical. Quickly recover servers when problems occur. Create a scheduled task eliminating the need to touch each server to recover them to an optimal state. Reduce the need to reinstall the operating system, recover from an image or restore from tape backup.

Quickly run various configurations on servers for software test scenarios. No need to reinstall or re-image a system to restore it to its original configuration.

ShadowServer Feature Matrix:

Features/Benefits	SHADOW USER	SHADOW SERVER
Preserve original system configuration	•	•
Complete operating system, application and data protection	•	•
No alteration to the file system or disk structure	•	•
FAT, FAT32, NTFS basic and dynamic disk support	•	•
SCSI, ATA and IDE hard drive support	•	•
Undo malicious or unwanted changes to the computer	•	•
Eliminate cookies, internet tracks, spyware and history from being written to disk	•	•
Prevent viruses and worms from being written to disk	•	•
Easy-to-use menu for enabling / disabling computer protection session (ShadowMode)	•	•
Commit changes to the entire computer or individual folders and files while in a ShadowMode session	•	•
Commit global computer changes or changes based by user	•	•
Specify writable volumes, folders or files to automatically save changes	•	•
Protect multiple hard drives, multiple volumes	•	•
Scheduler for automatically enabling / disabling ShadowMode session	•	•
No Touch Recovery – scheduler automatically sets computer back to original optimal state.	•	•
Assign tasks in scheduler based on Windows user security rights	•	•
Customizable to enable a ShadowMode session during bootup, an easy-to-use interface or tray icon.	•	•
ShadowMode session reporting and statistics	•	•
Tray icon and / or wallpaper indicates protection session status	•	•
Support for Windows NT workstation 4.0, 2000 Professional, and Windows XP Pro/Home	•	
Support for NT Server 4.0, Windows 2000 Server/Advanced Server, and Windows Server 2003 Enterprise/Standard/Web		•

ShadowMode Defined:

ShadowStor uses a unique method called ShadowMode to ensure servers and PCs are protected. By placing servers in ShadowMode with ShadowServer, IT organizations can feel confident systems are going to be protected no matter what happens. ShadowMode tracks each system change and redirects them to an unused location on the disk. These system changes can be permanently saved to disk, or completely discarded. With ShadowMode, there is no need to specify regions on disk for backup or use BIOS functions to reserve space for OS images. ShadowMode is the most efficient and intelligent way to protect servers and PCs from system downtime.

Contact Information:

ShadowServer Online - If you would like to try ShadowServer, you can download a full-featured 15-day evaluation copy at www.shadowstor.com. Volume pricing and licensing for ShadowServer is available.

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ShadowServer 2.0 Minimum Requirements

Computer/Processor	133 MHz or higher Pentium-compatible CPU.
OS Support	Windows 2003 Server, Windows 2000 Server/Advanced Server (SP3), Windows NT Server 4.0 (SP6)
Memory	At least 128 megabytes (MB) of RAM.
Hard Disk	10MB of free space
CPU Support	ShadowUser supports single and multi-processor systems.
Drive	CD-ROM or DVD drive.
Display	VGA or higher resolution monitor.
Keyboard	Required.



ShadowUser 2.0 Minimum Requirements

Computer/Processor	133 MHz or higher Pentium-compatible CPU.
OS Support	Windows XP Home/Professional*, Windows 2000 Professional (SP3)
Memory	At least 128 megabytes (MB) of RAM.
Hard Disk	10MB of free space
CPU Support	ShadowUser supports single and dual CPU systems.
Drive	CD-ROM or DVD drive.
Display	VGA or higher resolution monitor.
Keyboard	Required.