

NxTop™ PC Lifecycle Management Solution

Centralized Virtual Desktop Management for Corporate PCs



Virtual Computer's NxTop™ combines a groundbreaking client-side virtualization platform with a powerful central management system to make PCs more manageable, more reliable, and more secure while improving the end-user experience. NxTop™ uses advanced virtualization technology to isolate the main components of a PC: the hardware, operating system, applications, and user data, allowing each to be managed independently.

NxTop is designed with the IT administrator in mind, providing a one-to-many management approach that makes it as easy to manage thousands of PCs as it is to manage one.

AT A GLANCE

Type 1 “bare metal” hypervisor provides true isolation and “no compromise” system performance.

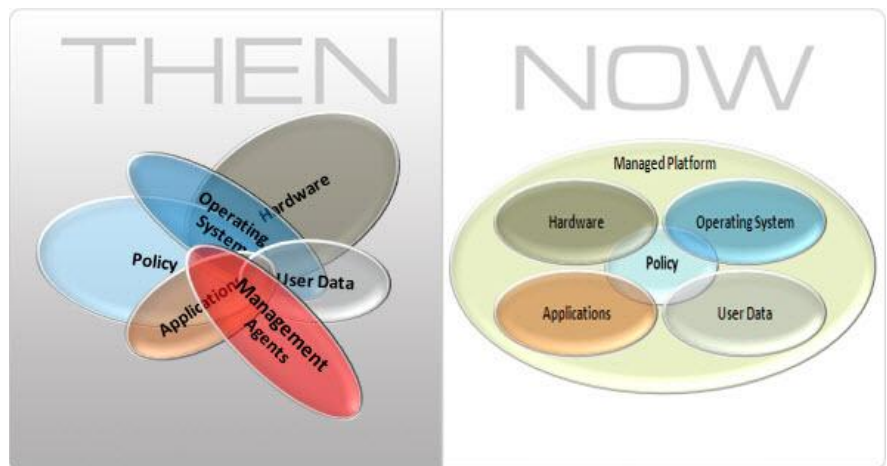
Centralized virtual desktop management dramatically simplifies PC configuration management and patching for IT teams.

Integrated data backup and restore efficiently protects against data loss with no user interaction required.

Layered security model combines trusted boot, full disk encryption, and data leakage prevention to protect sensitive data.

Multiple concurrent virtual desktops enable advanced XP/Vista compatibility mode and corporate/home desktop isolation.

NxTop™ Untangles Your Corporate PCs



Stateless Computing Architecture

Most corporate PCs today are tangled collection of hardware, operating system software, applications, and data. Legacy management tools have layered agents within Windows to perform management functions such as antivirus, software installation, patching, and data backup. Agent-based approaches have proven to be both limited in their effectiveness and disruptive to end-users. NxTop™ isolates the core functional components of a PC, allowing them to be managed from outside of the operating system. The result: better efficiency, scalability, and security for IT and a better computing experience for the end-user.

A True End-to-End Solution

Unlike point desktop virtualization solutions, NxTop™ includes everything an IT team needs to regain control of its managed PCs. The NxTop™ platform consists of two components:

- NxTop™ Engine: A “bare metal” hypervisor and management control framework capable of running and servicing virtual desktops directly on PC hardware.
- NxTop™ Center: A feature-rich management console used by IT administrators to create, manage, and maintain virtual desktop environments centrally.

True “Bare Metal” Desktop Virtualization

- **Performance without compromises.** By eliminating the need for a host operating system and employing a unique input/output architecture, NxTop™ Engine provides a level of performance that is indistinguishable from a traditionally installed operating system.
- **Complete virtual machine isolation.** Unlike virtual machines running on top of an untrusted operating system, NxTop™ virtual machines are completely isolated from one another. Malware in an unmanaged Windows desktop environment does not compromise a managed NxTop™ virtual machine.
- **Disconnected operation.** Before NxTop™, the efficiency and security benefits of virtual desktops were limited to server-hosted approaches using tethered thin client devices. NxTop™ executes virtual machines directly on the PC itself, enabling disconnected virtual machine execution on notebook PCs.
- **Hardware Abstraction.** NxTop™ presents a consistent set of virtual hardware to the end-user operating system, simplifying migration of users to new hardware platforms. Driver management and other hardware-specific compatibility challenges are eliminated.

Centralized Virtual PC Image Management

- **One-to-many desktop provisioning.** NxTop™ Center provides a central console for all desktop management activities. IT teams create and maintain a single virtual machine per operating system that can be published to thousands of users. User-specific personality, data, settings, and applications are applied dynamically on NxTop™ Engine before the virtual machine runs.
- **Scalable offline desktop patching.** Patches and updates are also applied on a one-to-many basis. The IT administrator simply applies any patches once to a master virtual machine running on NxTop Center™. Upon republishing, the data blocks that have changed are streamed to NxTop™-enabled PCs running an instance of the updated virtual machine. A patched image is assembled in the background and loaded on the next reboot transparently to the end-user.
- **Granular policy controls.** IT administrators can protect against data leakage and unauthorized use through a

robust set of policy controls. Access to hardware resources such as USB ports and network interfaces can be restricted or filtered based on centrally-defined policies at global, group, and individual user levels. Virtual machines can also be governed by time-based expiration policies and on-demand remote disablement.

Secure By Design

- **Tamper-proof computing platform.** NxTop™ Engine features a trusted boot process that prevents the PC from booting if it has been tampered with.
- **Full disk encryption.** All data on NxTop™-enabled PCs is encrypted, providing piece of a mind in the event that a PC containing sensitive data is lost or stolen.
- **Remote termination with lost data destruction.** As an added layer of security, IT administrators can flag lost PCs for remote termination. If the lost or stolen PC connects to a network, it is directed to digitally shred all data and encryption keys and self-destruct.

Hassle-Free Data Backup and Restore

- **Transparent data protection.** Based on centrally defined policies, NxTop™ Engine periodically initiates a PC data backup with no interaction required by the end-user.
- **Efficient data transmission.** NxTop™ backup technology captures changes at the block level, transmitting only the blocks that have changed to NxTop™ Center.
- **Point-and-click system restore.** The combination of central virtual image management, data backup, and hardware abstraction dramatically simplifies re-provisioning of users in the event of a lost or failed PC. Simply register a new PC—even a completely different hardware platform—and with a few mouse clicks the user is up and running with their exact desktop environment as of the last time they connected to a network.
- **Easy-to-use file restore.** Lost or corrupted end-user data files can be easily recovered. IT administrators can centrally restore individual user files or optionally end-users can be granted the power to perform restore files in a self-service fashion.