

Atlantis ILIO Diskless VDI for VMware View

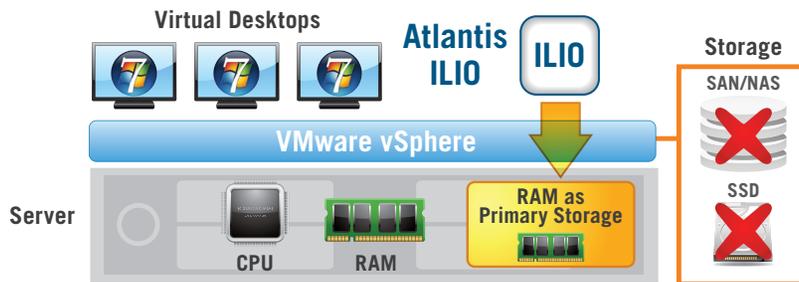
Deliver Amazing Stateless Desktop Performance under \$200!

The VDI Storage Challenge

For VDI to be successful, virtual desktops must deliver an equivalent user experience to a physical PC at a comparable cost per desktop. Traditionally, storage accounts for 40-60% of the total cost of a virtual desktop, which results in a cost per desktop that is 2-4 times more than a physical PC. In addition, deploying VDI with traditional storage or SSDs makes storage sizing, scaling, and management complex, and introduces significant risks to any VDI project.

The Atlantis ILIO™ Diskless VDI Solution

Atlantis ILIO Diskless VDI is the only storage optimization software that eliminates storage from VMware View stateless VDI deployments. VMware View can now be deployed to thousands of desktops in a matter of a few hours without the cost, complexity and risks of installing and managing storage. Atlantis ILIO delivers a user experience that is much faster than a physical PC at a cost below \$200 per desktop.



Fully automated deployment, sizing, configuration and datastore creation

Key Benefits

- 1) Software only**—Atlantis ILIO Diskless VDI is a purpose built solution that allows virtual desktops to use RAM as primary storage, completely eliminating the need for storage or SSD hardware. Scale-out any VDI infrastructure with just servers and software.
- 2) Amazing user experience 300+ IOPS/user***— faster than PC user experience.
- 3) CAPEX below \$200/user***—Keep infrastructure costs under \$200 per desktop including the server hardware, RAM and Atlantis ILIO.
- 4) Lower OPEX**—Enable lower operating expenses by eliminating rack space, power consumption, cooling and repair costs, and daily operational tasks of maintaining disk-based storage.
- 5) Automated multi-rack deployment**—Automatically install, size, and configure Atlantis ILIO on hundreds of servers. Create and register NFS datastores that are then ready to use by VMware View Composer to complete the provisioning process.
- 6) VMware vCenter integrated deployment**—VMware VirtualCenter plug-in provides a single point of management and deployment.

Solution Overview

Atlantis ILIO Diskless VDI software complements VMware View to eliminate the use of storage for stateless virtual desktop images, while boosting performance to new levels.

Atlantis ILIO Benefits

- **No SSD or Storage for VDI!**
- **Deployment Time**—Go live in weeks, not months!
- **Proven**—Powers 85,000 desktops today at largest VDI deployment in the world
- **CAPEX Cost**—Under \$200 per desktop
- **OPEX**—No storage racks, power, cooling, repairs
- **Faster than PC**—12 second boot
- **Simple**—No storage to size, install, or manage
- **Scalable**—Scale with just servers and software
- **User Persona**—User profiles are redirected to shared storage

“Using Atlantis ILIO Diskless VDI simplifies our VMware View deployment, reduces operational complexity and delivers both a vastly improved user experience and a much lower cost per desktop.”

—Chris Hewertson, CIO,
Colt Technology Services

*Actual performance results may vary depending on servers, architectures, networks and storage used

“[Atlantis ILIO] seems within reach of the Holy Grail of VDI: the elimination of all storage-related CAPEX and OPEX, and a further decrease in desktop boot times to 12 seconds. The new product is also said to be the first solution to eliminate storage for virtual desktop images.” —Bruce Hoard, *VDI's Holy Grail*, *Virtualization Review*

Automated VDI Deployments with Atlantis ILIO Center & VMware View

Atlantis ILIO Center fully automates the deployment and configuration of Atlantis ILIO across multiple servers and racks, providing datastores that are ready to be used for provisioning by VMware View Composer. The desktop images are provisioned on a highly optimized Atlantis ILIO datastore that uses only a small amount of RAM per desktop (200MB to 600MB). User profiles, including user files, settings and data are streamed to the desktop over the network from a file share or network-based storage system.

Inline Deduplication—Deduplicates inline virtual desktop images, reducing the size up to 99% and enabling desktop images to be stored in local server RAM.

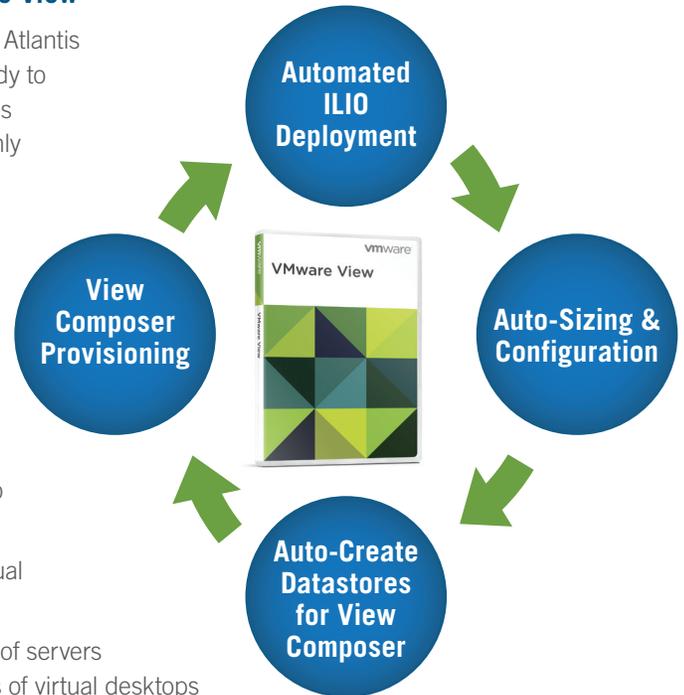
Advanced Image Compression—Shrink the amount of RAM needed per virtual desktop image to 200-600MB per desktop.

VMware View and vCenter Integration—Single point of administration to provision and manage virtual desktops, and Atlantis ILIO Diskless VDI.

Fast Cloning for Diskless VDI—Atlantis ILIO Fast Cloning can clone virtual desktop images in as few as 5 seconds.

Automated Multi-Rack Deployment—Deploy Atlantis ILIO on hundreds of servers across dozens of racks, providing Diskless VDI data stores for thousands of virtual desktops within 20 minutes.

Automated Diskless VDI Sizing—Automatically calculates the optimal user density based on available server CPU and RAM and configures Atlantis ILIO Diskless VDI with no human intervention.



VDI Cost per Desktop*

Scenario	Diskless VDI	Local SAS with ILIO	Local SSD with ILIO	Local SAS+SSD without ILIO	NetApp FlexPod without ILIO	EMC vBlock 1 without ILIO	HP Servers with FusionIO
Density	120	80	80	70	80	40	80
IOPS per Server	44,123	20,000	25,000	6,000	916	2,475	29,200
CAPEX Costs & Price/Performance							
Cost per Desktop (Storage & Server)	\$197	\$219	\$237	\$219	\$392	\$1,833	\$380
Cost per IOPS	\$0.58	\$0.87	\$0.76	\$2.55	\$38.52	\$29.63	\$1.04

Source: Cisco Diskless VDI Whitepaper. *Actual performance results may vary depending on servers, architectures, networks and storage used.

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