



Hyper-Converged Infrastructure

All-Flash Hyper-Converged Storage

Hyper-convergence enables IT organizations to integrate server and storage resources into a simple, scalable and low cost replacement of traditional SAN or NAS shared storage. Datacenter infrastructure can now scale out linearly, reducing costs and increasing flexibility.

The Atlantis USX all-flash hyper-converged solution is software that integrates with any x86 server platform, local flash storage, and 10 GbE networking to create a hyper-converged platform. Atlantis USX provides IT organizations the flexibility to scale compute, networking and storage independently.

Enterprises can run up to 200 general purpose server VMs, provide 25 TB of all-flash storage, or run up to 650 virtual desktops with a 4 node Atlantis USX hyper-converged solution.

Simplicity



The Atlantis USX powered hyper-converged platform replaces costly and complex legacy SAN/NAS storage with a simple system that provides all the compute and storage you need. Atlantis USX deploys automatically on any x86 server hardware and integrates with the hypervisor to provide integrated server and storage management. Within minutes, the Atlantis USX Manager deploys VMs, creates and registers data stores, and is ready to provide all-flash NFS or iSCSI storage tailored specifically for each application or workload.

Cost Reduction



With Atlantis USX, you get all-flash array performance, double the processing power and 4x the storage capacity of competitive hardware appliances at a 75% lower cost per gigabyte. When used for server virtualization, the total cost of the compute and storage for a general purpose server VMs is under \$600. For desktop virtualization, the total infrastructure cost of a persistent virtual desktop with 50GB of storage is under \$235 including 3 years of support and maintenance.

Performance



The Atlantis USX all-flash hyper-converged solution delivers the performance of an All-Flash Array using a combination of Atlantis Hyperdup IO acceleration technology running in server memory and local flash as the primary storage tier. With Atlantis USX inline deduplication, up to 90% of IO is processed in-memory without having to be written to disk across the network, lowering latency and increasing IOPS.

KEY BENEFITS

Simplicity

- Deploys automatically in 30 minutes
- Single pane-of-glass management for storage
- Any x86 server hardware

Cost

- 75% lower cost per GB than competitive appliances

Performance

- All-Flash storage performance
- In-Memory IO acceleration

Scalability

- Scale out linearly to an unlimited number of servers and petabytes of integrated storage
- Scale up by adding more local flash

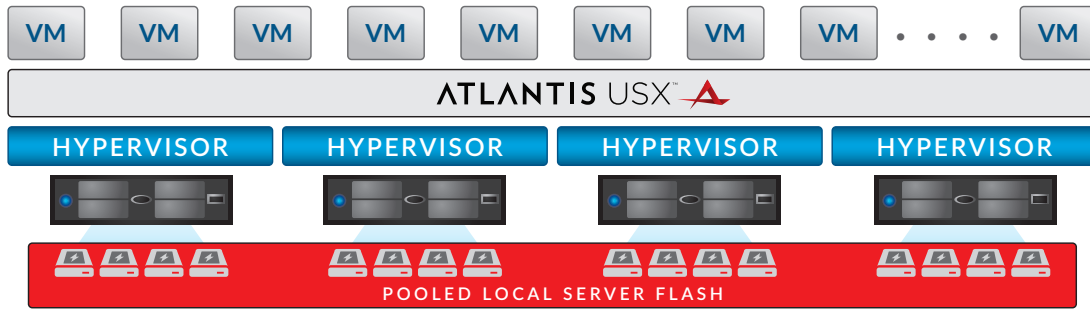
USE CASES

- Database
- Microsoft Exchange
- Desktop Virtualization
- General Purpose VM Storage
- R&D and Test Environments

ATLANTIS USX COST REDUCTION

	SAN + Servers	Hyper-Converged Appliance	Atlantis USX Hyper-Converged
Cost per Server	\$805	\$720 to \$1720	\$588 (-18-67%)
Cost per Persistent VDI	\$1100	\$480 to \$1343	\$235 (-51-82%)

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Scalability and Hardware Flexibility

The Atlantis USX hyper-converged solution has the flexibility to use any x86 server platform with a minimum of 3 servers including highly efficient 2U 4 node appliances, traditional rack servers or blade infrastructure. You choose the hardware platform and Atlantis USX will automatically deploy the required USX components to create a hyper-converged system. Beyond 4 nodes, you can scale out by adding more servers or scale up by adding more disks to each server node. Unlike other hyper-converged appliances, Atlantis USX has the flexibility allowing you to combine different server and disk configurations using new or existing servers and scale both capacity and performance linearly.

RECOMMENDED HARDWARE CONFIGURATIONS PER NODE

	4 Node Server 2U	4+ Rack Servers	4+ Blade Servers
Server Compute	Dual Intel E5-2680v2 (10 Core)		
Hypervisor	VMware vSphere 5.0 or later, Citrix XenServer 6.2 or later		
Memory	384 GB		
Networking	2x 10GbE (Optional additional 2x 1GbE for management network)		
STORAGE			
Local Flash Storage	4x 400 GB SSD	2x 800 GB SSD	
All-Flash Raw Capacity (TB)	6.4 TB		
All-Flash Effective Capacity (TB)	25 TB		
GENERAL PURPOSE SERVER VIRTUAL MACHINE DENSITY			
Server VMs	200 Per Appliance (2 vCPU, 4 GB RAM, 60 GB)		
VIRTUAL DESKTOP DENSITY			
	Task Worker	Knowledge Worker	Power User
VDI	650	500	250



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