

Dell UnityVSA

Agile virtual storage appliance for SAN and NAS on premises



UnityVSA software-defined storage on VMware

Dell UnityVSA™ (Virtual Storage Appliance) enables all the enterprise capabilities of the Dell Unity XT storage arrays to be easily deployed on a VMware ESXi server, enabling customers to implement an affordable high availability software-defined storage solution on-prem. Best of all, you can get a no cost Community Edition license for up to 4TB of capacity – to use in Test/Dev environments.

UnityVSA software-defined storage brings several benefits to your organization including low acquisition cost when considering hardware consolidation, multi-tenant storage instances, remote/branch office storage deployment and easier to build/maintain/destroy environment for staging and testing.

With much of the same all-inclusive software as the physical arrays, UnityVSA allows you to:

- Provide advanced file, block and vVOL data services for your customers
- Set up for high availability NAS or SAN on-prem in just a few minutes
- Allow VMware admins to manage storage from VMware vCenter
- Protect data locally with unified snapshots
- Replicate data remotely to other instances of UnityVSA or to Unity XT storage arrays
- Optimize efficiency and simplify storage management with automated tiering through Fully Automated Storage Tiering Virtual Pools (FAST VP)
- Administrate the virtual appliance using the same HTML-5 based Unisphere as with Unity XT storage arrays.
- Connect UnityVSA with modern dev/ops, storage and workflow automation and much more using our no cost plug-in technology:
 - Container Storage Interface (CSI) plug-in
 - VMware vRealize Operations (vRO) plug-in

Ideal Use Cases

Community Edition for Test/Dev environments

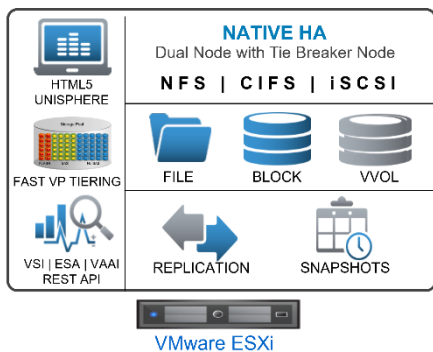
- Uses the same Unity XT management GUI Unisphere
- Easily migrates to Professional Edition

Professional Edition for production environments

- Small to medium businesses
- Remote Office/Business office
- Workgroups and departments
- Vertical markets
 - Retail
 - Education
 - Manufacturing
 - Healthcare
 - Government

Licensing

The UnityVSA software package contains the standard integrated management and monitoring of all aspects of UnityVSA including the Operating Environment, NAS and SAN protocols, Unisphere management, FAST VP Auto-Tiering, thin provisioning and unified snapshots/replication for NAS and SAN. Also included is the Unity XT 64-bit file system with file system shrink functionality for space reclamation, VMDK cloning, metrosync manager and quotas.



Professional Edition – available as a yearly license subscription

- **350TB:** 2C vCPU, 12GB Memory, Dual-Node
- **350TB:** 12C vCPU, 96GB Memory, Dual-Node
- **50TB:** 2C, vCPU, 12GB Memory, Dual-Node
- **50TB:** 2C vCPU, 12GB Memory, Single-Node

Subscription licensing is a seamless upgrade from a low-capacity point to a higher capacity point and includes:

- Software and systems related support
- Dell Enhanced Services
- Dell Secure Remote Support (SRS)

Community Edition – a no-cost, community supported software license for up to 4TBs intended for test/dev environments

Virtual machine specifications

- 2-core single-SP deployment requirements:
 - Virtual memory: 12GB
 - Virtual processor cores: 2 (2GHz+)
 - Virtual network adapters: 6 (4 adaptors for I/O, 1 for management, 1 for system use)
 - Community and Professional Edition licenses
- 2-core Dual-SP deployment requirements:
 - Virtual Memory per SP: 12GB
 - Virtual processor cores per SP: 2 (2Ghz+)
 - Virtual network adapters: 9 (4 adaptors for I/O, 1 for management, 1 for system use, 3 for internal communication)
 - VLANs: 3 (used for heartbeat and internal communication)
 - Professional Edition license only
- 12-core Dual-SP deployment requirements:
 - Virtual Memory per SP: 96GB
 - Virtual processor cores per SP: 12 (2Ghz+)
 - Virtual network adapters: 9 (4 adaptors for I/O, 1 for management, 1 for system use, 3 for internal communication)
 - VLANs: 3 (used for heartbeat and internal communication)
 - Professional Edition license only

VMware integration support

- VVols support for VM-granular data services and Storage Policy Based Management (SPBM).
- VMware vStorage APIs for Storage Integration (VAAI) for File and Block, improving performance by leveraging more efficient, array-based operations.
- vStorage APIs for Storage Awareness (VASA) provides storage awareness for VMware administrators

Agile Software-defined Storage for On Premise

dell.com/unityxt



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