VIKING™
Enterprise Solutions

PRODUCT BRIEF | Software Defined Storage & De-Clustered RAID Solutions

OBSIDIAN STORAGE APPLIANCE

The Obsidian Storage Appliance is available both as a software defined storage (SDS) hardware and software appliance, as well as a de-clustered RAID (DRAID) Appliance.

De-Clustered RAID (DRAID) Appliance

Obsidian Storage Appliance is a ZFS-based, de-clustered RAID (DRAID) Appliance designed to serve as a robust iSCSI backup storage target and as a general purpose storage appliance for Enterprises and Cloud Service Providers.

The platform includes integrated hardware and software with a middleware layer providing either resilient backup, data protection, as a rapid-recovery storage target for third-party backup applications or as a robust volume services as a primary storage appliance.

Viking Enterprise Solutions (VES) Obsidian Storage Appliance technology provides up to 20% better I/O performance and from 2.5 to 1000 times faster array rebuild rate compared to traditional de-clustered RAID arrays.

The Obsidian Storage Appliance is flexible and powerful enough to also support a range of secondary and primary storage applications including use as a stand-alone fast compute and storage node, video broadcasting or cache serving platform.

DRAID BENEFITS

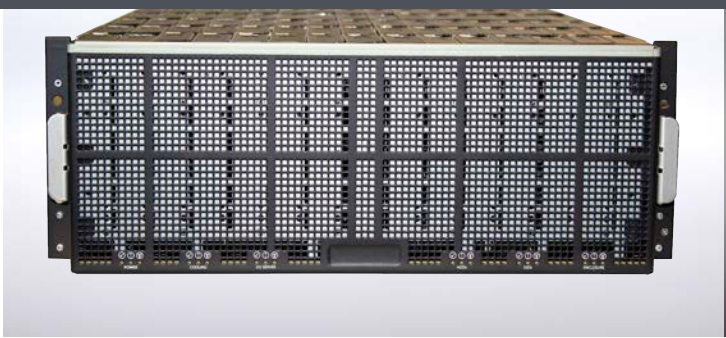
- ZFS-based Architecture Provides Robust Data Integrity Assurance with Block-level Checksums and Pro-active Corruption Scanning
- Pre-configured and Tuned Storage Pools for Convenience, Reduced Errors, and Quick Deployment
- 20% Faster I/O Performance and 250% – 1000% Faster RAID Rebuild Time vs. Traditional RAID Arrays

EASY TO USE

- Easy to use Menu System aimed at reducing errors by Data Center Personnel
- LED Indicator driven disk replacement wizard
- Remaining time & progress bar for Rebuilding process

DRAID FEATURES

- Robust Volume Services including Thin Provisioning, Compression, Deduplication and Snapshots/Clones
- Supports High capacity SAS drives: 14TB+
- Close to 1 Petabyte of storage in a 4U form factor
- Improved data protection with triple parity
- Ability to rebuild a 14TB drive in a matter of hours
- Shares iSCSI Block Devices or Files with NFS
- Obsidian Storage Appliance supports usage monitoring & alerting of end user volume services activities



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OBSIDIAN STORAGE APPLIANCE

Automation

- Simple, clear CLI, with SDK provided at support for Solarwinds, Zabbix, Nagios

Networking

- 10Gbps Sharing of iSCSI Volumes
- Bonding Network Interfaces & Link Aggregation
- Easy export of volumes over iSCSI to initiators & groups

Alerting

- Scheduling of proactive scrubbing aids detection & early warning via email alert/notifications
- Email notifications to inform multiple user of important events on the storage appliance
- Manage Email Address Lists with "To" list & "cc" users
- Notification sent when issues are detected or if a particular volume is shared

SOFTWARE DEFINED STORAGE (SDS) APPLIANCE

SDS BENEFITS

- Supports many storage formats, block, file, and object
- Manages S3, ISCSI, NFS, SMB support for multiple storage needs
- Interfaces with modern cloud and existing hypervisor SAN environments
- Erasure Coding for multi-node data redundancy
- Encryption, deduplication, and compression for secure and efficient data storage
- Tightly integrated with Kubernetes components allows flexibility in managing storage in cloud or hybrid cloud solutions

SDS FEATURES

- Certified hardware provides safe, reliable foundation for high performance and scalable storage solutions
- Powerful graphical and command line user interfaces – easy to implement and manage
- In-factory integration delivers solutions ready to plug into on-premises infrastructure
- Flexible storage device configurations range from all-NVME to all-SSD to all-HDD or any hybrid combination optimizing cost and performance
- Can be deployed as a hyperconverged Kubernetes or Openshift solution
- Deployable as a black-box scalable storage array

VIKING™ Enterprise Solutions

For price, availability and sales information, please email us at sales@vikingenterprise.com or call us at +1 (408) 964-3555.

www.vikingenterprisesolutions.com