

# SnapScale X4™

## Intelligent storage just got smarter

Network Attached Storage has fulfilled many of the traditional IT needs by providing affordable data retention with simple management, and compatibility across multiple platforms. With the convenience and simplicity of Network Attached Storage it is difficult to imagine a business environment today that is not utilizing NAS, however with the explosion of data and the importance of compliance and uptime; traditional scale-up NAS solutions are quickly reaching limits of capacity, redundancy and performance within dynamic IT storage environments.

The SnapScale X4 from Overland Storage is a clustered NAS solution that solves the problems of traditional storage by enabling organizations with rapid or unpredictable data growth to scale capacity and performance infinitely without adding management complexity. Built on Overland Storage RAINcloud OS technology, SnapScale eliminates islands of storage, enabling easy and affordable scaling without having to predict capacity in advance. Offering user selectable levels of data redundancy, SnapScale writes data across multiple nodes and drives simultaneously for instant protection and high availability. The SnapScale hardware architecture and “single pane of glass” management creates a consistent user experience while both managing the existing global namespace and scaling storage as needed, without additional layers of administration.

To deal with limited space and resources, organizations must plan for the financial, operational and technological consequences storing and protecting large amounts of unstructured data. By investing in the high density SnapScale X4 architecture up front, organizations can assure that their file serving infrastructure will grow to meet future needs painlessly and cost-effectively, regardless of how rapidly performance and capacity requirements increase over time.



### Infinite Scalability

Let the SnapScale X4 grow with your data. Scale storage by populating available drive-bays within individual nodes, or add additional nodes to increase capacity and improve performance by spreading the workload across the cluster. SnapScale will add any additional capacity from new nodes or drives automatically, ensuring proper configuration and load balancing for optimal performance. SnapScale also provides an intuitive, browser-based interface to manage an entire cluster from a single pane of glass, regardless of capacity. There are no limits to the number of nodes or drives in a SnapScale cluster, allowing growth without boundaries, all while remaining online with superior data protection.



### Global Namespace

Reduce the amount of infrastructure required, and prevent islands of storage from forming on your network by consolidating file storage with SnapScale X4. Whether managing small amounts of storage or petabytes of storage, the management of the SnapScale global namespace remains a simple and consistent experience. Increase the size of your SnapScale global namespace as needed, saving time and reducing capital costs by preventing the over purchasing of storage capacity. Create flexible storage volumes without limits in the global namespace to eliminate the need for manual provisioning, or manually control volume usage by creating adjustable quotas for different network applications or departments.



### Unified Storage

Consolidate your storage by hosting both block and file level data on your SnapScale X4 clustered NAS system. Utilize common networking protocols such as SMB, NFS, HTTP or FTP for file sharing, collaboration and backup, and host database storage and virtualized servers on SnapScale iSCSI LUNs simultaneously.



### Intelligent Clustering

Optimize disk utilization and performance in real-time with SnapScale Intelligent Clustering Technology. The SnapScale system monitors and recommends changes to settings to make sure cluster performance and data protection are optimal. Maximize node incorporation by distributing files evenly using the Data Balancer and make sure performance is spread efficiently between nodes and hard drives. Using the File-level Striping feature, data is striped between drive sets on different nodes making room for large database or virtualization files and increases performance cluster-wide. With the Spare Distributor, hot spares are always located in the best possible locations in order to maximize data protection throughout the cluster.



### High Performance

Traditional storage is limited in performance by the fixed amount of network bandwidth in the single head unit architecture, which leads to congestion and throughput bottlenecks as user base grows. With the SnapScale X4, network bottlenecks are no longer a problem, because adding new nodes not only increases the usable storage in the global namespace, but also increases aggregate performance across the network by balancing user connections and spreading data out across the cluster. All types of files benefit from performance improvements as bandwidth, file I/O, processing power and capacity expand with each node. Simply add additional SnapScale nodes as needed to an existing cluster to accelerate application performance and to keep up with an ever-expanding user base, without downtime or tedious data migration.



### High Availability

Standalone NAS has many single points of failure. Data loss or interruption can occur if any crucial hardware or software components fail, even when protected by proven RAID technologies. Unlike RAID however, the SnapScale X4 is designed to protect data by tolerating not only the failure of multiple drives, but even the failure of entire nodes with no downtime or offline rebuilding. Utilizing two selectable levels of data redundancy, SnapScale nodes create identical copies of files automatically when data is written to the global namespace, making node or drive failure completely transparent to the storage user or network application, by maintaining data availability. Completely remove all single points of failure with a SnapScale cluster and protect your businesses most crucial data with complete redundancy and protection.



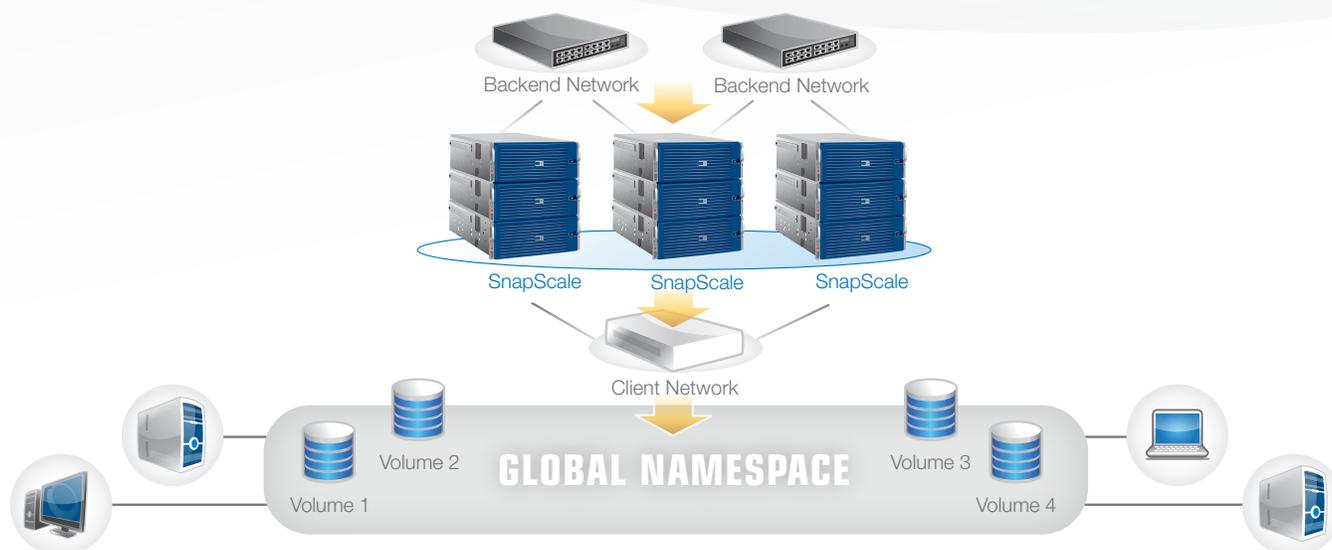
### Features

- Expand capacity and performance infinitely
- Simple management of large storage capacities
- Block and file access to data
- Automatic HA failover
- Flexible Volumes
- Snapshots
- Remote replication

## Specifications

<b>Form Factor</b>	4U rack mount (4U X 3 - minimum cluster size)
<b>System Scalability</b>	74TB – 512PB
<b>Processor</b>	Dual Intel Six Core processors
<b>Memory</b>	64GB
<b>Drives Supported</b>	2TB, 3TB, 4TB NL-SAS (Minimum 4 drives per node)
<b>RAIN Levels</b>	2x or 3x data redundancy
<b>Network Connectivity</b>	4 x 1GbE per node (2 back-end and 2 front-end); or 4 X 10GbE per node with SFP+ or RJ-45 connectors (cables and SFP+ transceiver modules sold separately); or mixture of 2 X 1GbE and 2 X 10GbE SFP+ or RJ-45
<b>Capabilities</b>	Remote Management, Global Namespace, Flexible Volumes, Snapshots, Replication*, High Availability, High Performance, iSCSI block level access, SNMP, User and Group Quotas, Data Balancer, Spare Distributer
<b>Network File Protocols</b>	Microsoft Networks SMB (1.0, 2.0, 2.1) / CIFS (NTLM); CIFS via Mac OS X; NFS v3, (UDP/TCP), FTP/FTPS, HTTP/HTTPS

\* Optional license



## Sales Offices

**North America**  
125 S. Market Street  
San Jose, CA 95113  
USA  
Tel: (858) 571-5555

**Asia Pacific**  
8 Wilkie road #03-08  
Wilkie Edge  
Singapore 228095  
Tel: +65 62811 073

**France**  
18 Rue Jean Rostand  
Orsay  
91400, France  
Tel: +33 1 81 91 73 40

**Germany**  
Wilhelm Wagenfeld Straße 28  
80807 München  
Germany  
Tel: +49 89 329 890 800

**United Kingdom**  
Ashville Way  
Wokingham, Berkshire  
RG41 2PL England  
Tel: +44 1 189 898 000

DSX4-0813-01



©2013 Overland Storage. All trademarks and registered trademarks are the property of their respective owners. The information contained herein is subject to change without notice and is provided "as is" without warranty of any kind. Overland Storage shall not be liable for technical or editorial errors or omissions contained herein.