

VERITAS Cluster Server™ for Network Appliance SnapMirror

KEY BENEFITS

- Ensure highly available data and applications
- Minimize the cost of planned and unplanned downtime
- Achieve fast, automatic failover of data and applications
- Design and deploy within any network infrastructure
- Centralize, streamline, automate resource management
- Get support for heterogeneous platform environment

Continuous access to data and applications has become an operational necessity for today's enterprise environments. Downtime, whether it is planned or unplanned, is no longer an option as this downtime may result in lost revenue, reduced productivity and diminished user satisfaction.

To protect against outages caused by application or server faults, many organizations deploy application clustering solutions to automate application failover to redundant server hardware. To protect against failure of an entire site, most customers utilize a data replication solution to keep an up to date copy of critical data at a remote location. What is typically not considered is that these two solutions can be combined to create a complete solution that completely automates the process of bringing up an environment, including the data applications, at a remote location.

VERITAS Cluster Server (VCS) is the industry's No. 1 open systems clustering solution (source: IDC, 2004) designed to protect your critical applications and databases against downtime, whether planned or unplanned, across local and remote data centers utilizing attached storage and a wide range of replication technologies. VCS provides high availability to applications, databases, and servers by monitoring the health and performance of the resource and automatically restarting the resource on another available server in order to avoid a complete failure.

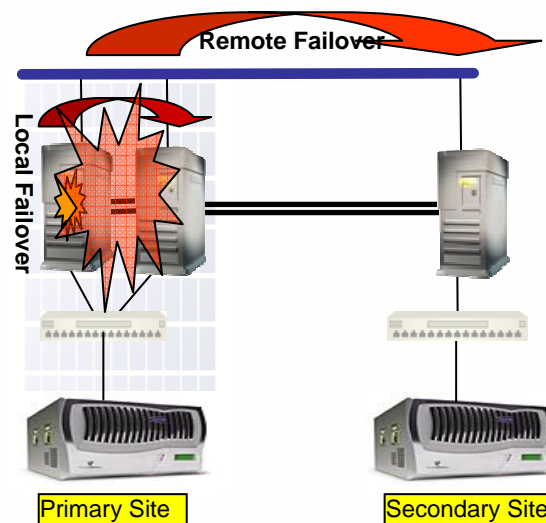
Network Appliance SnapMirror is the industry's leading global data availability and disaster recovery software. SnapMirror technology mirrors data to one or more network filers. It continually updates the mirrored data to keep it current and available for disaster recovery. If your enterprise is geographically dispersed

and all locations need access to the same data set, such as training videos, Microsoft Exchange, CAD tools and the like, SnapMirror can distribute the same data to all locations automatically.

VERITAS CLUSTER SERVER FOR NETWORK APPLIANCE SNAPMIRROR

Combining VERITAS Cluster Server's ability to provide application, database, and server high availability with SnapMirror's advanced and easy to use data replication technology significantly improves disaster recovery capabilities in today's enterprise environments.

VERITAS Cluster Server is tightly integrated with SnapMirror to offer high availability and disaster recovery options flexible enough to meet service level requirements and surpass customer needs in any size environment. VCS comes with application agents that ensure applications remain highly available. Typical application agents include, but are not limited to, BEA Tuxedo, BEA WebLogic, IBM WebSphere, Microsoft Exchange, Oracle Applications, Peoplesoft, SAP, Siebel, SunOne and VERITAS NetBackup. If an application needs to remain highly available and an agent is not currently available, VERITAS Consulting can build a custom agent.



Since most outages are localized (within a single site), a remote disaster recovery architecture, using VERITAS Cluster Server and Network Appliance SnapMirror replication technology, is extremely appealing to datacenters looking to achieve remote application availability.



VERITAS Cluster Server Agent for Network Appliance SnapMirror enables easy configuration of Network Appliance storage systems in a VERITAS Cluster Server environment as well as the full support of a range of disaster recovery configurations. Specifically designed to achieve high data and application availability, the solution is easily expanded from a local cluster to a remote cluster, enabling remote failover capabilities in the event of an entire site outage, planned or unplanned.

SUPPORTED HARDWARE, PLATFORMS AND VCS VERSIONS:

Hardware Compatibility/ Array Model:	Network Appliance F800 Series
	Network Appliance FAS200 Series (FAS250, FAS270)
	Network Appliance FAS900 Series (FAS920, FAS940, FAS960, FAS980)
	Network Appliance NearStore Series
Note 31: VERITAS DMP support for the NetApp arrays in an iSCSI SAN requires use of an iSCSI HBA at this time.	

Platforms	VERITAS Cluster Server for Network Appliance SnapMirror v4.1: Solaris: 8, 9, 10; AIX: 5.1, 5.2, 5.3; HP-UX: 11i v2; Linux: RHEL 3.0 & 4.0 and SLES 8 & 9
	VERITAS Cluster Server for Network Appliance SnapMirror v4.3: Windows 2000 Server, Advanced Server and Datacenter Windows 2003 Server, Enterprise and Datacenter

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