

StoreAge
networking technologies
SVM™ (Storage Virtualization Manager)



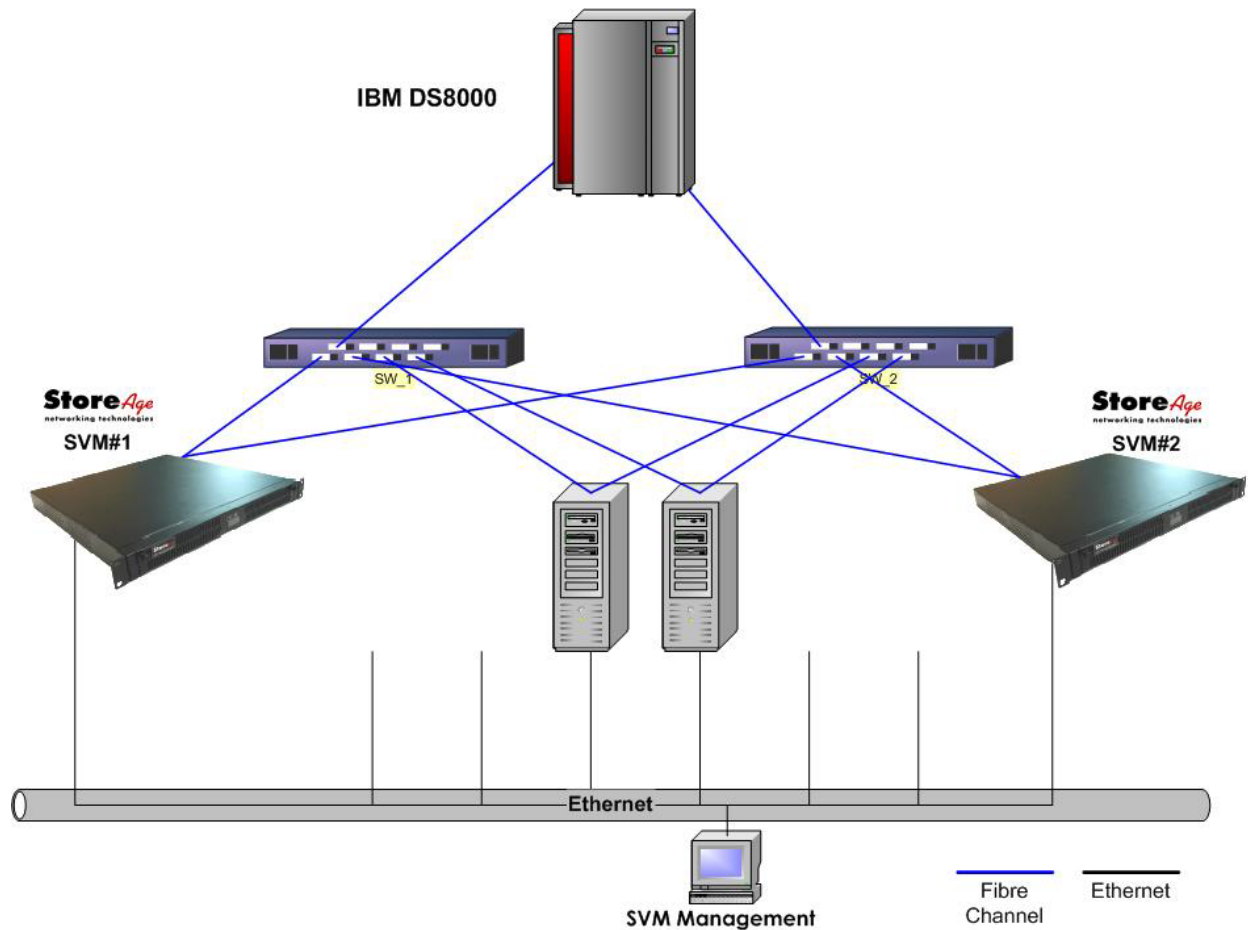
Testing Template:

This document will be used to describe, from a technical perspective, the elements that were included as part of the IBM TotalStorage Proven testing. It is intended to give an overall picture of the technical elements of the configuration, with a brief description of the results of the testing including any specific highlights of the interoperability results.

High-level architecture/description, include a list of products that meet the compatibility requirements (“Approved Product(s)”) as well as a list of the IBM storage products with which the Approved Products meet the compatibility requirements (“Qualified IBM Storage Products”):

The above qualification is provided for the compatibility between SVM-based system, which includes SVM appliance(s) and servers of different Operating-Systems installed with the SVM agent (the “Approved Product”), and IBM TotalStorage DS8000 storage system series (the “Qualified IBM Storage Products”).

IBM TotalStorage Proven™ program



Testing Overview:

The testing was performed in a typical configuration (see diagram above), and covered the following scenarios, which are common within an Enterprise IT center:

- Normal operation of servers with a SAN.
- Typical changes (such as upgrades, maintenance operations, equipment changes, etc.).
- High-Availability under failure conditions (such as power-fail, disconnections, non-planned reboot, etc.).
- Within these scenarios, issues like data integrity, performance and SVM functionalities were tested.

Comprehensive testing level achieved in most subjects dealing with Stress conditions, Exception Handling and High-Availability characteristics.

Throughout these tests, StoreAge applications of Snapshot (*multiView*) and data replication (*multiCopy*) were extensively utilized.

IBM TotalStorage Proven™ program

Test environment:

- IBM DS8000 storage device which is in use by a customer, with 14 drives allocated for this test.
- Two Intel based servers, with Windows 2000 server, Qlogic HBAs, and SVM agent of version V4R3.27 represented the servers involved.
- SVM appliance with version V4R3.45.
- Qlogic SANBox FC switches with version V4.1.0.14-0.

Test Results:

The tests were performed during the period May 17 to June 14, 2005, subject to availability of the storage device which was used for production work.

Data transfer for testing integrity and performance was performed by using two utilities:

- The 3rd party utility **I/O meter** (Iometer 1998.10.08, from Intel Corporation).
- StoreAge "Type 5" data-transfer and compare (data movement during system down/cable pulls).

Technical Customer Support Information:

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