

High-Availability.Com
RSF-1



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”):

RSF-1 is a cluster solution that allows multiple Linux and AIX servers to function as a single, easy-to-use and highly available system. RSF-1 helps to provide a system with no single points of failure. RSF-1 supports all major applications including databases.

The Qualified IBM Storage Product List includes:

- High-Availability.Com’s RSF-1
- High-Availability.Com’s NetMon
- IBM pSeries Servers
- IBM ESS

Testing scenario:

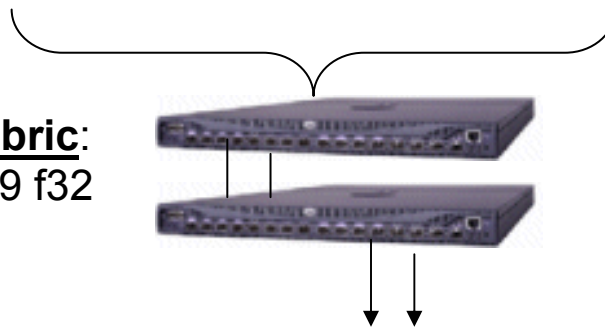
HAC environment set-up for testing at IIC



pSeries615: x2
2Gb of memory



Dual fabric:
2 x 2109 f32



DS4400:
1Gb of Cache
14 x 36Gb Cache

IBM TotalStorage Proven™ program

The test configuration consisted of two p615 nodes with one LPARs, one running Linux, redundantly connected to a ESS800 Shark via fibre channel. The Shark provided shared storage for binary and data installation of the dB. The p615's were running RedFlag Linux Advanced Server (AS) 4.1.

Application errors were invoked that resulted in detection and failover.

Network connection errors were invoked and detection confirmed and action taken.

Testing level achieved: **Comprehensive**

- Standard: The standard test consists of elements like install, configuration, load, exercise I/O, and backup/restore testing.
- Comprehensive: Comprehensive testing would include the standard testing in addition to a much higher level of integration and failure testing. In either case, these tests are customized for the specific product(s) being tested, and in consultation with the participant.
- The level is determined by IBM based on the test plan and results.

Testing Overview:

- Acquisition and release of disk partitions, controlled by RSF-1 via GUI
- Simulated failure of Database followed by automatic failover to other machine
- Network failure on active machine causing failover
- Disk heart beat using ESS as communication medium – alternate path
- Simulated server failure, resulting in failover

Test Configuration:

- Pair of p615 server, with one LPARs. Having: -
 - 1x sStar 600 MHz PPC CPU
 - 2 GB memory
 - 1x Fibre channel adapter
 - 1x 100 Mb/s Ethernet adapter
 - RedFlag Linux AS 4.1
- Fibre-attached ESS800 Shark with EXT3 partitions

Test Results:

The tests listed above all passed when run individually and when run contiguously. The testing was completed on RSF-1 2.7.7 during May 2005.

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