



High Availability Option

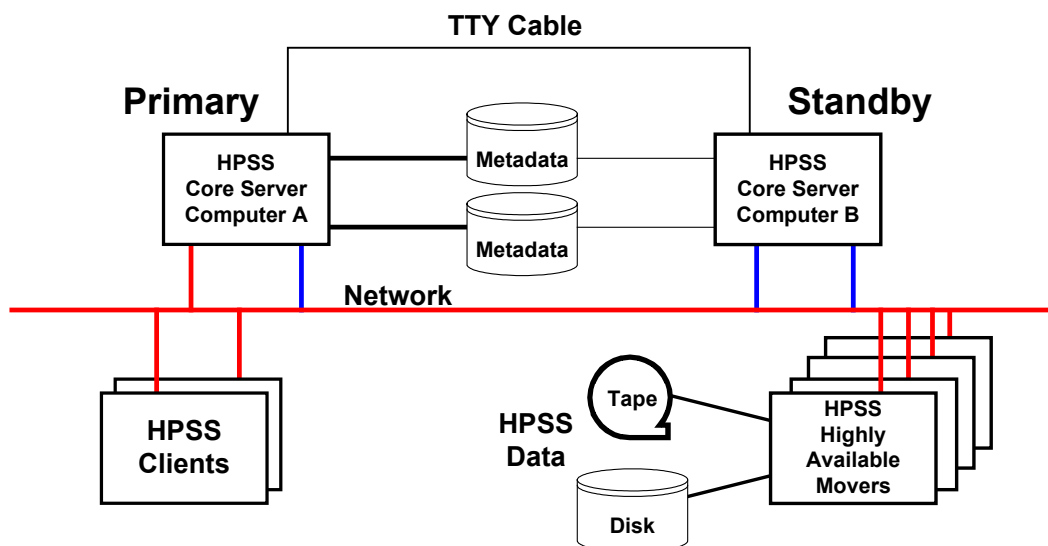
IBM Global Services - Federal announces the High Availability option for HPSS. HA-HPSS provides hardware redundancy for HPSS core servers, complementing the ability to configure redundancy in the data movers. The result is a mass storage system that remains on-line, in spite of failures in key hardware components.

High Availability Features:

- Minimize downtime
- Automatically recover from:
 - Total failure of primary server computer
 - Power failure
 - Disk failure
 - Disk adapter failure
 - Network adapter failure and more...

Components:

- Standard HPSS software
- HACMP for AIX clustering software from IBM
- Redundant hardware components



Implementation Features

- Two HPSS core server machines: one primary and one standby.
- Primary computer services requests using “service interface.”
- Metadata is mirrored across busses.
- “Keep alive” messages are exchanged between primary and standby over Ethernet and TTY cable (to prevent isolation).
- Network adapter failure causes a standby adapter to assume the IP and hardware address of the failed adapter.
- Failures of disk, disk adapter, and cables are resolved by AIX mirroring over dual busses.
- Primary computer failure results in the standby computer assuming the IP and hardware addresses of the service adapter, taking control of the metadata disks, and restarting HPSS.

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