Incremental Scalability

Based on storage needs and deployment schedules, HPSS scales incrementally by adding computer, network and storage resources. A single HPSS namespace can scale from petabytes of data to exabytes of data, from millions of files to billions of files, and from a few file-creates per second to thousands of file-creates per second.


Incremental Scalability


Performance & Efficiency


Availability & Durability


Delivery & Support

About HPSS : High Availability HPSS

High Availability (HA) HPSS is an extension to the standard HPSS offering from IBM. See HPSS Offerings for offering details, and contact us.

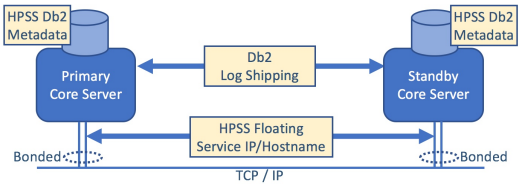
High Availability Core Servers

HA Core Server services include the configuration of a standby HPSS Core server, and associated db2 metadata storage, and the configuration and testing of the HPSS Core Server failover with manual approval.

Db2 log shipping is configured to protect HPSS metadata from a wider range of failures, including a site failure, and to reduce downtime caused by these failures. Db2 log shipping replicates HPSS Db2 metadata to a standby HPSS Core Server. The standby HPSS Core Server can be installed locally, or at a remote facility.

HA Core Server details include:

- Two HPSS Core Server machines: one primary and one standby
- Metadata on the primary server is synchronized to standby server
- Negligible impact on performance
- Primary computer failure results in the standby computer assuming the IP/Hostname of the service interface and restarting HPSS



HA Core Servers

High Availability Movers

High Availability Movers provide access to HPSS storage when an HPSS Mover server fails. HA Movers are typically deployed for the HPSS disk cache only, as HA Movers for tape drives are not considered cost-effective at scale. HA Movers are always deployed in pairs, so the surviving Mover can be used to manage access to the storage devices for the failed Mover.

HA Mover services include the configuration and testing of the HPSS Core Server failover software for each Mover. HA Mover details include:

- Shared access to the Mover storage for each pair of Mover servers.
- Primary computer failure results in the surviving Mover computer managing access to the storage devices for the failed Mover.

Come meet with us!

2021 HUF - VIRTUAL
COVID-19 has disrupted the 2021 HPSS User Forum (HUF) and the Karlsruhe Institute of Technology (KIT) in Karlsruhe, Germany is no longer hosting the event. The 2021 HUF will be hosted online for six days spread across three weeks in October 2021 with no admission cost. This will be a great opportunity to hear from HPSS users, collaboration developers, testers, support folks and leadership (from IBM and DOE Labs) - Learn More. Please contact us if you are not a customer but would like to attend.

HPSS @ SC21
The 2021 international conference for high performance computing, networking, storage and analysis will be in St. Louis, MO from November 15th through 18th, 2021 - Learn More. As we do each year, we are scheduling and meeting with customers via IBM Single Client Briefings. Please contact your local IBM client executive or contact us to schedule a HPSS Single Client Briefing to meet with the IBM business and technical leaders of HPSS.

HPSS @ STS 2022
The 4th Annual Storage Technology Showcase is in the planning stage, but HPSS expects to support the event in March of 2022. Check out their web site - Learn More. We expect an update in early fall 2021.

HPSS @ MSST 2022
The 37th International Conference on Massive Storage Systems and Technology will be in Santa Clara, California in May of 2022 - Learn More. Please contact us if you would like to meet with the IBM business and technical leaders of HPSS at Santa Clara University.

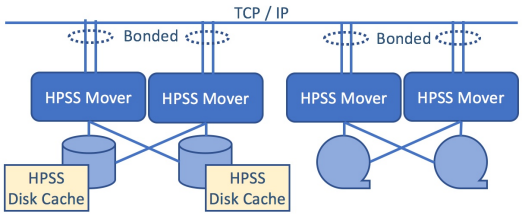
What's New?

DOE Announces HPSS Milestone - Todd Heer, Deputy Program Lead, Advanced Simulation and Computing (ASC) Facilities, Operations, and User Support (FOUS), announced that DOE High Performance Storage Systems (HPSS) eclipse one exabyte in stored data.

Atos Press Release - Atos boosts Météo-France's data storage capacity to over 1 exabyte in 2025 to improve numerical modeling and climate predictions. Want to read more?

HPSS 9.2 Release - HPSS 9.2 was released on May 11th, 2021 and introduces eight new features and numerous minor updates.

HPSS 9.1 Release - HPSS 9.1 was released on September 24th, 2020 and introduces a few new



HA Movers

< Home

features.

HUF 2020 - The HPSS User Forum was hosted virtually at no cost in October 2020.

HPSS 9.1 Release - HPSS 9.1 was released on September 24th, 2020 and introduces a few new features.

HPSS 8.3 Release - HPSS 8.3 was released on March 31st, 2020 and introduces one new feature and many minor changes.

Capacity Leader - ECMWF (European Center for Medium-Range Weather Forecasts) has a single HPSS namespace with over 597 PB spanning over 403 million files.

File-Count Leader - LLNL (Lawrence Livermore National Laboratory) has a single HPSS namespace with over 66 PB spanning 1.571 billion files.

Older News - Want to read more?