

HPE Clustered Extents File System



Обзор

Do you require rapid access to shared data between multiple servers within a Linux® high-performance computing (HPC) cluster on a Storage Area Network (SAN)? The HPE Clustered Extents File System is designed to provide simultaneous, high speed shared access to data between clustered Linux servers connected to a SAN, where each server in the cluster has direct high-speed data channels to a shared set of disks. The servers share a single name-space within the cluster, so each server can see all files, and can access files at local to near-local speeds. HPE Clustered Extents File System can scale for bandwidth or I/O by adding additional storage or network connections and provide for high availability (HA) of data within a design that detects and automatically recovers from server or network failure.

Функции

High Performance File Sharing for Clustered Linux Systems

With the HPE Clustered Extents File System no network mounts or file copying is involved. Multiple servers can have direct access to the same file at the same time at near local speeds.

Streamlined metadata management is designed for performance with sophisticated algorithms and structures for fast buffering and lookups.

Dedicated metadata servers can be utilized for increased performance.

Highly Scalable for Capacity or Bandwidth

The HPE Clustered Extents File System as a 64-bit file system, is able to handle individual files up to 9 Exabytes, and as an overall file system with sizes up to 18 Exabytes.

Increases bandwidth by adding additional network connections for increased flexibility and increases storage capacity by seamlessly adding additional drives.

Dynamic allocation algorithms allow thousands of files to be stored with reduced disk resources.

Disk volumes can be allocated across thousands of disks to allow for future storage needs.

High Availability

The HPE Clustered Extents File System detects and automatically recovers from a single system failure, including metadata server failure, as well as a network failure.

HPE Clustered Extents File System is a journaling file system, which logs changes not yet committed to the file system, provides for file system consistency and for rapid recovery in the event of an improper system shutdown.

Multiple backup metadata servers can be designated for failover on detection of a metadata server failure.

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so you can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.
- **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please [explore them here](#).

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