

NFS Active-Passive Failover

High Availability through Active-Passive Failover is crucial for many companies. Despite using high-quality hardware and superior connections, still any server can crash, leading to data loss. Providing High Availability can be tricky, but fortunately Open-E DSS V7 is able to work with a second node. It keeps data redundant and when aware of the original node's failure, the redundant node continues serving clients; effectively replacing the missing node. This process is commonly known as Failover.

Key uses for NFS Failover:

- Highly available back-end storage for virtualization
- High Availability NAS



Benefits of NFS Failover in Open-E software

NFS protocol – NFS (Network File System) is used by Linux and UNIX clients to share data. The NFS daemon makes data available to the network, while security-administration recognizes and approves validated clients. By configuring network settings, the software is able to negotiate with clients through any firewall. Today, the NFS protocol is also implemented in VMware and in newer versions of Windows Server systems e. g. Windows 2012.

High Availability – Not a privilege, but a necessity. An organization's capability to continue delivering products or services during disruptive incidents is crucial. 40% of service interruptions are caused by power station failures, 25% are hardware failures, and 13% are software failures, misconfiguration or severe bugs. What downtime mostly stands for are costs. But with Open-E's failover technology and professional partner support, organizations are able to continue their business operations with 99.999% data availability. **Doubled performance** – Both Active-Passive and Active-Active load balanced failovers create a highly available storage cluster. The difference between them is the option to utilize all hardware and to increase performance by a factor 2 or more. In an Active-Passive setup, the primary server is under 3 times as much load as the passive node and can slow down the total performance of the cluster if there is a high amount of load. By balancing the load on both nodes, both work to their fullest potential increasing performance, system life and return-on-investment.

Metro Cluster – A metro cluster is a general term describing a cluster that consists of several independent nodes that act in unison. The metro cluster allows the nodes to maintain integrity and be placed in completely different locations, i.e. the company's primary and secondary sites, or in different fire areas of the same building. The Metro Cluster provides additional value without extra costs by providing dual functionalities - a disaster recovery plan and a High Availability cluster.