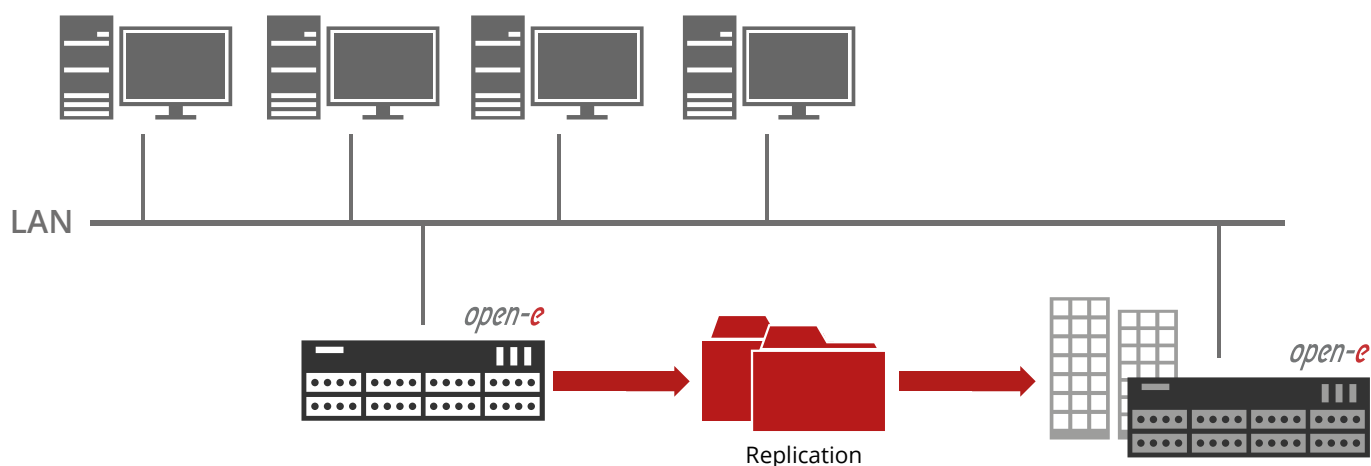# open-e

iSCSI Disaster Recovery with Synchronous Replication

Disaster Recovery is one of the most essential strategies to prevent lost data against disasters. It includes all processes and procedures that are performed in order to prevent large failures and to avoid the consequences by keeping copies of data. With a consistent strategy, users are able to recover business-critical files and applications of their IT infrastructure ensuring business continuity and minimization of data loss.

Key uses for Disaster Recovery with Synchronous Failover:
• **Business Continuity**
• **Protection from natural disasters**
• **Protection from human error**
• **Protection from equipment failure**
• **Protection from cyber-attacks and viruses**

LAN

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Replication

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Benefits of Disaster Recovery with Synchronous Failover in Open-E software

Zero-Data-Loss Protection – Synchronous failover ensures that volumes are identical on all systems. The source server doesn't allow changes to data until the destination server has confirmed that all volumes have been updated. Critical data is protected at the highest level and avoid performance constraints - this technology is mostly used in local area networks (LAN).

Flexibility – Available for NAS, iSCSI and FC volumes. This technology is block based and therefore available for all volume types which can be created with Open-E software. To ensure maximum security - the connection between the servers is encrypted.

Snapshots – A point-in-time image of any volume. With Open-E Data Storage Software you can create multiple snapshots per logical volume. Snapshots can be used for both consistent and temporary backup, while you still have uninterrupted and complete access to the Logical Volume. Files can be recovered from previous snapshots if accidentally deleted or modified.

High Availability – A professional, high-available storage requires synchronous replication. The failover can only work if data on the secondary volumes are identical to the primary volumes. In Open-E software, synchronous volume replication prepares your other system to take over the services at all times and performs the failover unnoticed by your client.