open-e

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THE CHANNEL CO.
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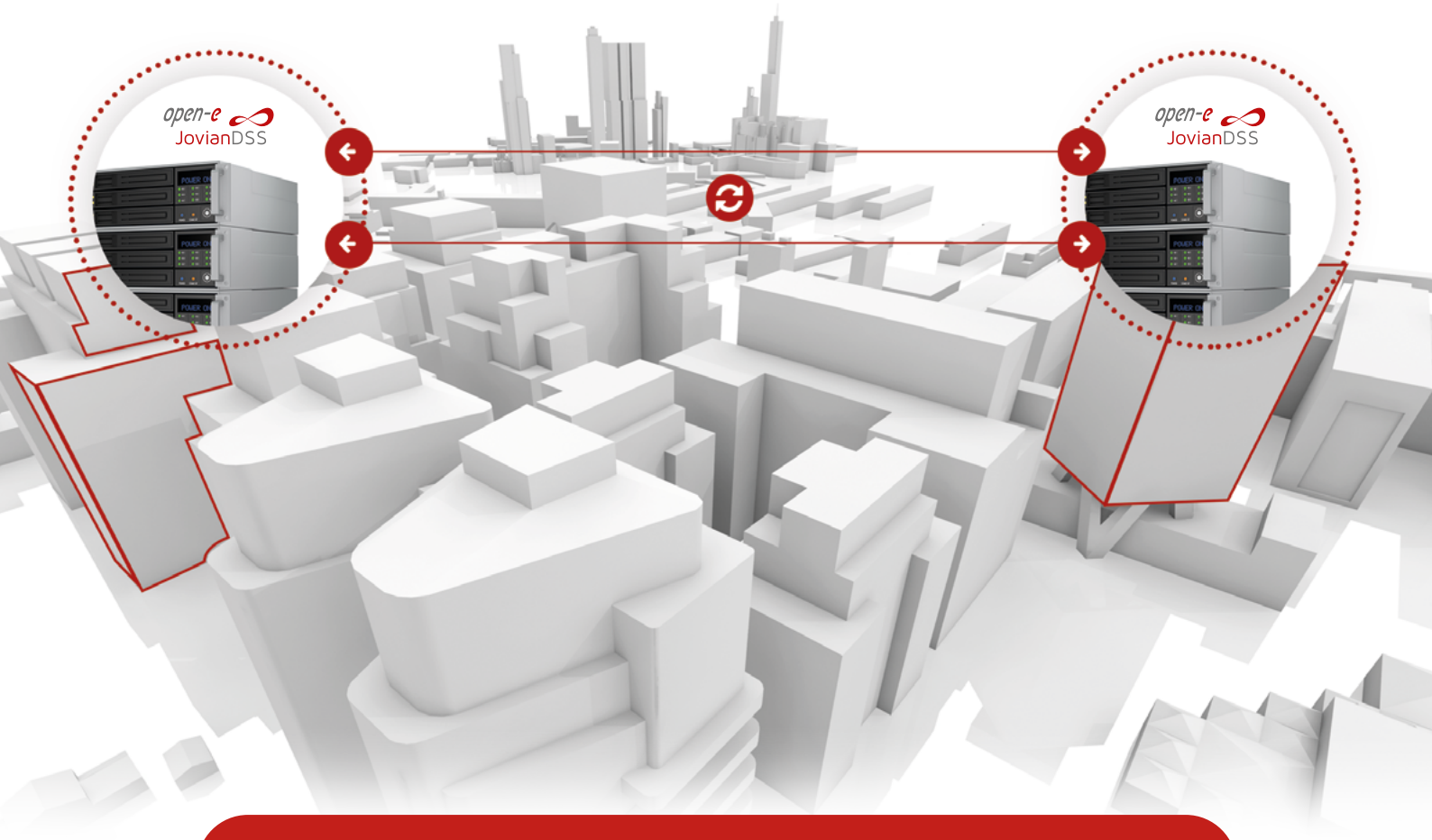
Open-E Advanced **Metro HA Cluster**



Advanced Metro HA Cluster – Benefits

- 1Gbps, 10Gbps, 40Gbps, 100Gbps Ethernet support for maximum speed
- Perfect for both rack (from 12” / 30cm) and metro (up to 50 miles / 80km) clusters
- Allows using less expensive SATA drives
- Easy to configure and manage
- Compared to SAS or FibreChannel, JBODs are not required for Ethernet clusters
- Optional use of RAID controllers

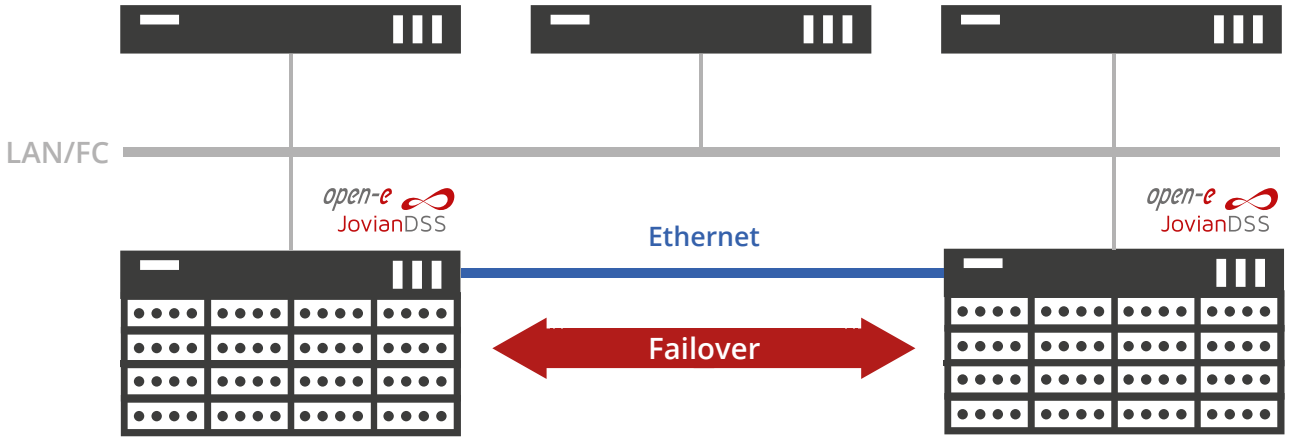
Open-E JovianDSS

Advanced Metro HA Cluster

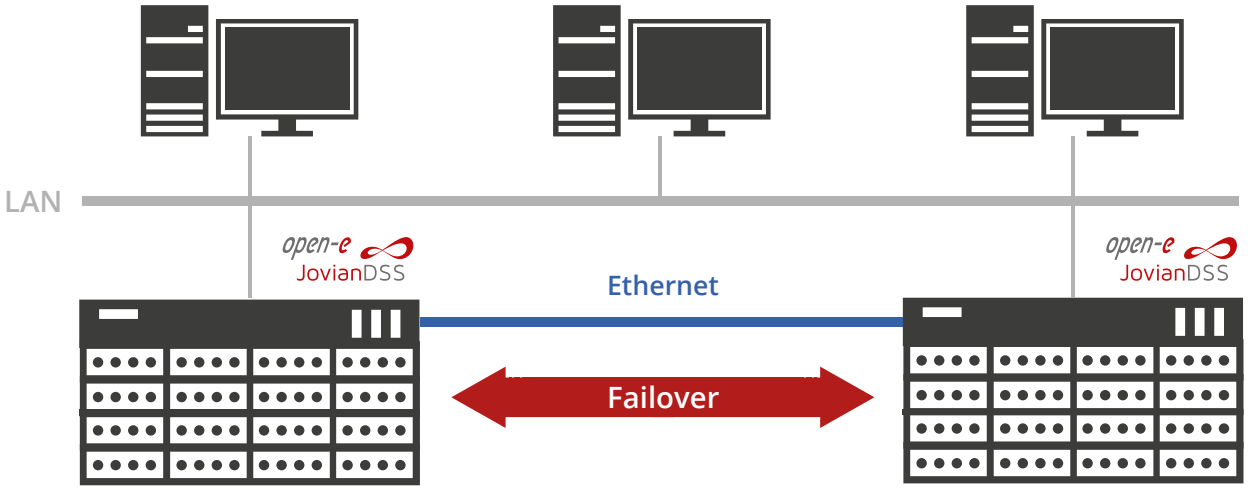
Advanced Metro High Availability cluster for iSCSI, FC and NFS, SMB (CIFS)

Open-E JovianDSS includes failover functionality for iSCSI, FC and NFS, SMB (CIFS), enabling you to set up High Availability Load-Balanced Storage Clusters that ensure reliability and redundancy through failover in case of a server crash. By using the Open-E JovianDSS Advanced Metro High Availability Cluster Feature Pack, you can create High Availability for two server nodes with storage mirror over Ethernet using a storage at each location (Dual Storage). Since the connection of cluster communication and data mirroring between nodes works over Ethernet, the nodes might be located far from each other as a (stretched) metro storage cluster. It can be 50 miles (80 km) in case of point to point fibre optic connection, or even more when using an additional switch between nodes - provided that network latency will not exceed 5 ms. The Feature Pack also supports configurations of the Open-E JovianDSS Standard HA Cluster Feature Pack.

SAN (iSCSI) Failover



NAS (SMB, NFS) Failover



Advanced HA cluster management

With the HA cluster management software functionalities you can quickly access all features related to your cluster setup. Whether for initial configuration or re-configuration after a failover – everything is in one place and guarantees ease of use for the storage administrator.

Open-E JovianDSS

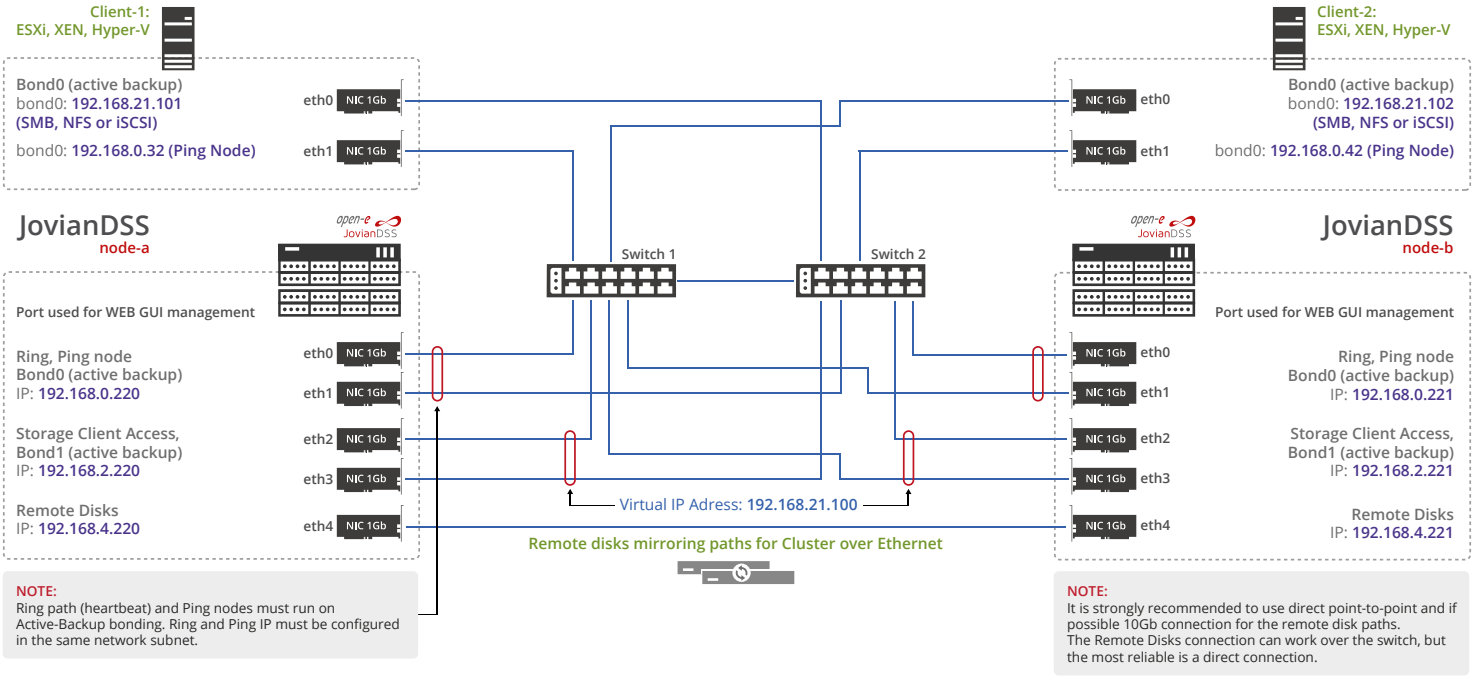
Advanced Metro HA Cluster

Examples of deployments

With Open-E JovianDSS you can easily setup a Metro Cluster that best fits your individual needs, using various protocols, hardware components and virtualization platforms.

Single VIP over Bond

Bonding for NFS / SMB, single iSCSI Path

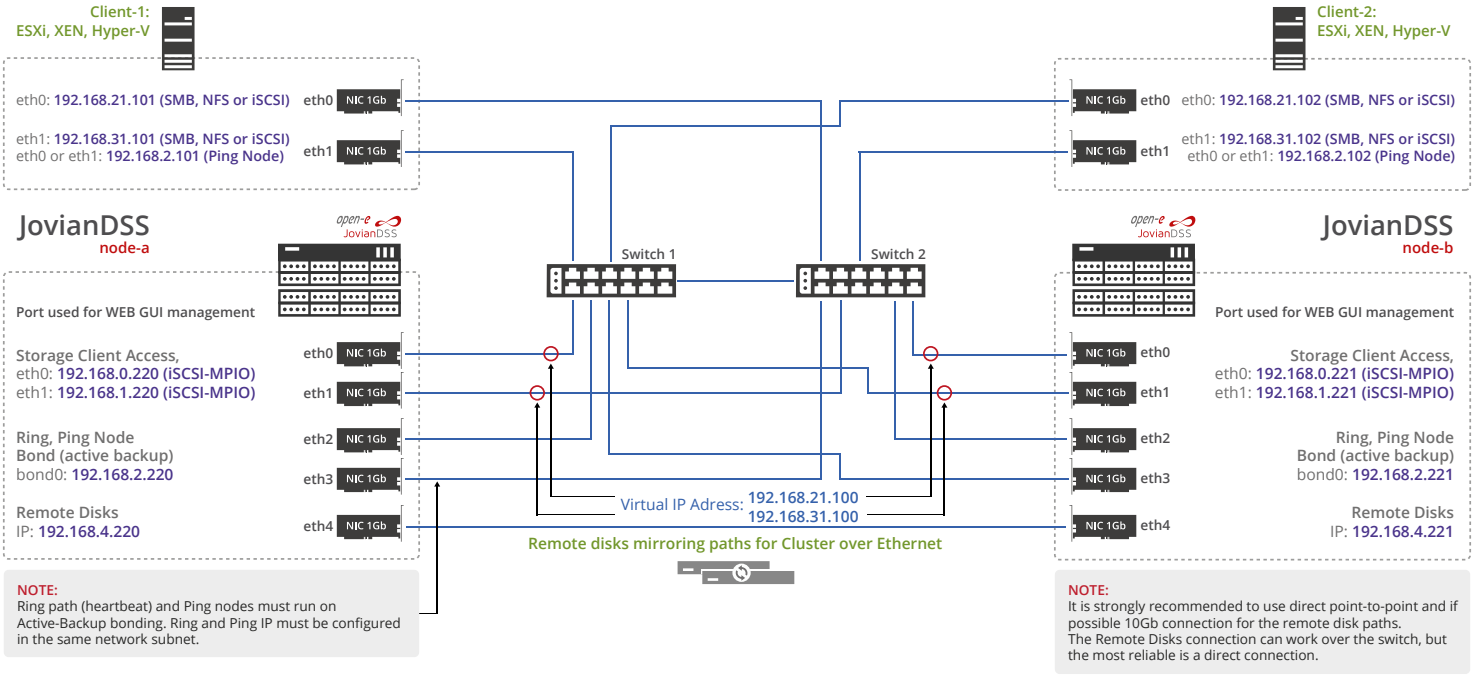


NOTE:
Ring path (heartbeat) and Ping nodes must run on Active-Backup bonding. Ring and Ping IP must be configured in the same network subnet.

NOTE:
It is strongly recommended to use direct point-to-point and if possible 10Gb connection for the remote disk paths.
The Remote Disks connection can work over the switch, but the most reliable is a direct connection.

Double VIP

Multipath iSCSI, single NFS / SMB Path



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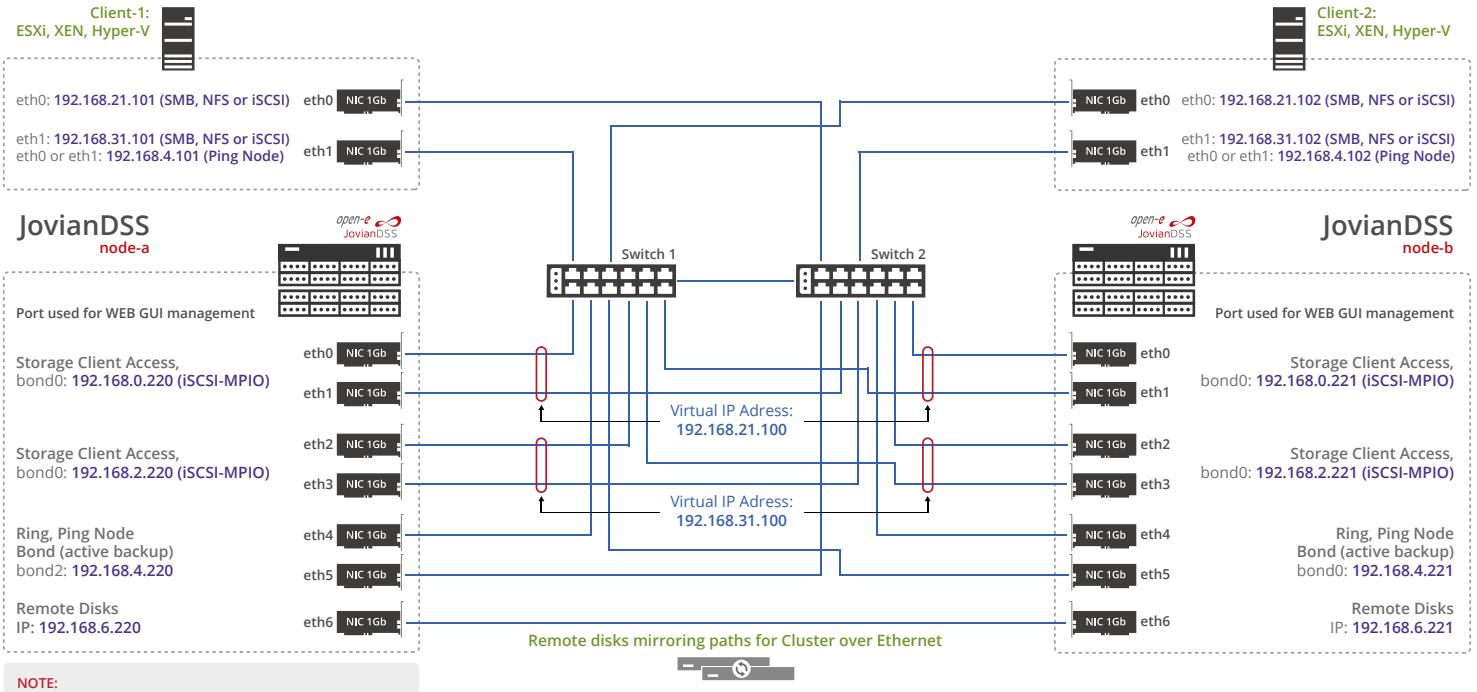
Advanced Metro HA Cluster

Double VIP over Bonds

Multipath iSCSI, Bonding for NFS / SMB



NOTE:
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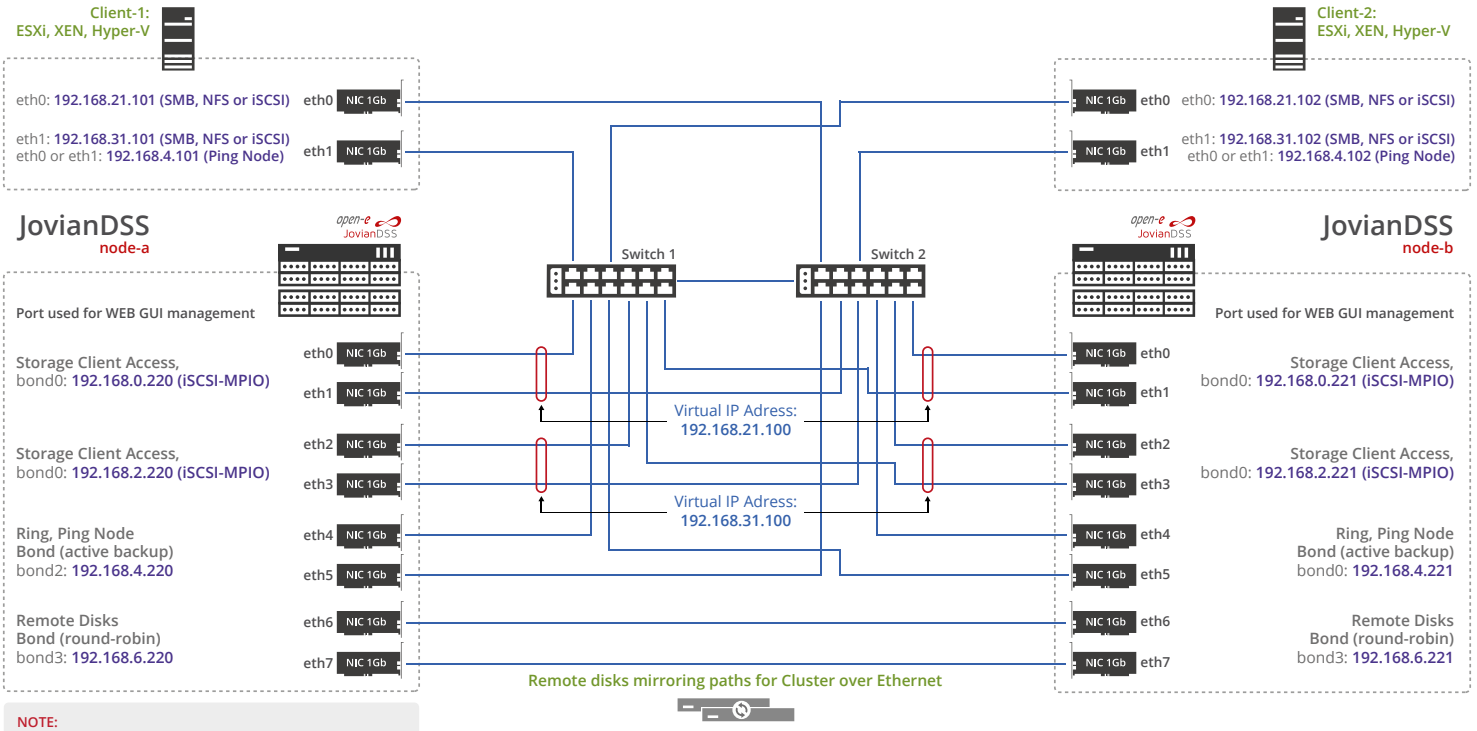
Double VIP

Multipath iSCSI, single NFS / SMB Path, Bond for mirroring



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