

(without bonding)

Software Version: DSS ver. 7.00 up10

Presentation updated: May 2013

TO SET UP ACTIVE-ACTIVE ISCSI FAILOVER, PERFORM THE FOLLOWING STEPS:

- 1. Hardware configuration
- 2. Network Configuration
 - Set server hostnames and ethernet ports on both nodes (node-a, node-b)
- 3. Configure the node-b:
 - Create a Volume Group, iSCSI Volume
 - Configure Volume Replication mode (destination and source mode) define remote mode of binding, create Volume Replication task and start the replication task
- 4. Configure the node-a
 - Create a Volume Group, iSCSI Volume
 - Configure Volume Replication mode (source and destination mode), create Volume Replication task and start the replication task.
- 5. Create targets (node-a and node-b)
- 6. Configure Cluster (node-a and node-b)
- 7. Start Failover Service
- 8. Test Failover Function
- 9. Run Failback Function











Data Server (DSS1) **node-a** IP Address:192.168.0.220

1. Hardware Configuration

open-e -ENTERPRISE CLASS STORAGE OS for EVERY BUSINESS DATA STORAGE SOFTWARE V7 CONFIGURATION MAINTENANCE STATUS SETUP HELP 🔓 💌 You are here: Setup > Network interfaces i. Interfaces * ? Server Name OC? eth0 Server name dss1 eth1 Data Storage Software Comment: - eth2 eth3 apply OC? Hostname 5 node-a-39166501 Hostname: apply Please apply changes or press "reload" button to discard OC? DNS settings DNS 194.204.152.34;194.204.159.1 🚖 Event Viewer

After logging in to node-a, please go to <u>SETUP</u> and choose the "Network interfaces" option. In the Hostname box, replace the "dss" letters in front of the numbers with "node-a" server, in this example "node-a-39166501" and click apply (this will require a reboot).





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Data Server (DSS1) **node-a** IP Address:192.168.0.220

4. Configure the node-a

In the **Create new volume replication task**, enter the task name in the **Task name** field, then click on the solution. In the **Destination volume** field, select the appropriate volume (in this example, **Iv0000**).

In the **Bandwidth for SyncSource** (MB) field you must change the value. In the example, 35MB is used. Next, click the **create** button.

NOTE:

The "Bandwidth for SyncSource (MB)" need to be calculated based on available Ethernet Network throughput and number of replication tasks and the limitation factor (about 0.7).

For example: **1** Gbit Ethernet and 2 replication tasks (assuming **1** Gbit provides about 100 MB/sec sustained network throughput)

• Bandwidth for SyncSource (MB): = 0.7 * 100/ 2 = 35 For example: **10** Gbit Ethernet and 10 replication tasks (assuming **10** Gbit provides about 700 MB/sec sustained network throughput)

Bandwidth for SyncSource (MB): = 0.7 * 700/10 = 49







In the **Replication tasks manager** function, information is available on currently running replication tasks. When a task is started, a date and time will appear.

Create new volume replication task OC? 6 Info No volumes with replication functionality found or all volumes have a task assigned already. Vol. replication * ? **Replication tasks manager** C ? 🗕 🜒 Mirror_0000 Mirror 0000 2013-05-17 19:11:18 de: Iv0000 Source volume: Destination volume: Iv0000 Destination IP 192.168.3.221 Protocol type: Synchronous ★ Event Viewer







In the **Replication tasks manager** function, click the corresponding "**play**" button to start the Replication task on the node-b: **Mirror_0001**.

In this box you can find information about currently running replication tasks.

When a task is started a date and time will appear.







NOTE:

Both systems must have the same Target name.

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completed.

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Data Server (DSS1) **node-a** IP Address:192.168.0.220

9. Run Failback Function

After completing this step, the status for node-a resources should state "active on node-a (local node)" and the Synchronization status should state "synced". Then, you can apply the same actions for node-b resources.

NOTE:

The Active-Active option allows configuring resource pools on both nodes and makes it possible to run some active volumes on node-a and other active volumes on node-b. The Active-Active option is enabled with the TRIAL mode for 60 days or when purchasing the Active-Active Failover Feature Pack. The Active-Passive option allows configuring a resource pool only on one of the nodes. In such a case, all volumes are active on a single node only.

The configuration and testing of Active-Active iSCSI Failover is now complete.

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SETUP CONFIGURA	TION MAINTENANCE STATUS HELP	
You are here: Setup <pre>Failover</pre>		👸 💆 🔱
	Resources pool manager	○ C ?
	Info While a cluster is running you are not able to change Virtual IPs settings. Please stronger to make changes.	op cluster in
	node-a-39166501 resources (local node)	
	Info Resources were moved successfully.	
	Status: active on node-a-3 (local node) move to rem	ote node
	Synchronization status: synced sync betwee	en nodes
	Virtual IP addresses iSCSI resources	
	add or remove targets	
	iSCSI target: target0 (iqn.2013-05:mirror-0)	
	Replication task Logical volume Replication task state	
	Mirror_0000 Iv0000 OK	
	node-b-59979144 resources (remote node)	
	Status: active on node-b-5 (remote node) move to loc	al node
	Synchronization status: synced sync between	en nodes
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Thank you!

