Step-by-Step Guide

How to Connect a DSS V7 to another DSS V7 with an iSCSI Target Volume
How to Connect to an iSCSI Target Volume over a LAN

The aim of this document is to demonstrate how to Connect to an iSCSI Target Volume from DSS V7. It shows in step-by-step, how to set up DSS V7 and connect to another DSS V7 with an iSCSI Target Volume.

To connect to an iSCSI Target Volume over a LAN, between two DSS V7 systems, perform the following steps:

1. Hardware configuration
   - Configure Destination Node:

2. Create a Volume Group, iSCSI volume and target on the DSS2,

3. Connecting iSCSI target Volume using iSCSI Initiator on DSS1
   - Connect to iSCSI target Volume from DSS2 using iSCSI Initiator on DSS1

4. Create a Volume Groups (vg01), on DSS1
How to Connect to an iSCSI Target Volume over a LAN

1. Hardware configuration

**Data Server (DSS1)**
Source node
**IP Address:** 192.168.0.220

RAID System 1
Volume Group (vg00)

NAS volume (lv0100)
Volume Group (vg01)

**Data Server (DSS2)**
Destination node
**IP Address:** 192.168.0.240

RAID System 2
Volume Group (vg00)

iSCSI volume (lv0000)

iSCSI Target Volume

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**iSCSI initiator**

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**Target0**
2. Configure DSS V7

Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

Under the "CONFIGURATION" tab, select "Volume manager" and next "Volume groups".

In the Unit manager add the selected physical units (Unit S001) to create a new volume group (in this case, vg00) and click apply button.
How to Connect to an iSCSI Target Volume over a LAN

2. ... Continue

Select the appropriate volume group (vg00) from the list on the left. In Action select a **new iSCSI volume** of the required size. This logical volume will be the iSCSI Target.

Select the appropriate volume. Next, select the required size of iSCSI volume. In this eg. Adding 200 GB for the iSCSI volume. After assigning an appropriate amount of space for the iSCSI volume, click the **apply** button.

**Data Server (DSS2)**
Destination node
IP Address: 192.168.0.240
How to Connect to an iSCSI Target Volume over a LAN

2. ... Continue

Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

The destination iSCSI Volume Block I/O is now configured.
How to Connect to an iSCSI Target Volume over a LAN

2. **... Continue**

Choose "CONFIGURATION", "iSCSI target manager" and "Targets" from the menu.

In the **Create new target**, click the **apply** to confirm.

Data Server (DSS2)
Destination node
IP Address: 192.168.0.240
How to Connect to an iSCSI Target Volume over a LAN

2. ... Continue

Select **target0** within the **Targets field**.

To assign a volume to the target, click the **attach** button located under **Action**.

Data Server (DSS2)
Destination node
IP Address: 192.168.0.240
How to Connect to an iSCSI Target Volume over a LAN

2. ... Continue

Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

The destination iSCSI target is now configured.
3. Connecting the iSCSI target Volume using iSCSI Initiator

Choose "SETUP", "iSCSI initiators". In Add new portal server, in field Portal IP enter the IP Address of targets on the destination node (in our example this would be 192.168.0.240) then click on the apply to confirm.
How to Connect to an iSCSI Target Volume over a LAN

3. ... Continue

Data Server (DSS1)
Source node
IP Address: 192.168.0.220

Select **192.168.0.240** within the **Portals** field. In **Portal manager** select the name of the iSCSI targets and click the **connect** button.
3. ... Continue

Data Server (DSS1)
Source node
IP Address: 192.168.0.220

iSCSI target: `iqn.2016-07:dss2.target0` has been connected successfully.
3. ... Continue

Data Server (DSS1)
Source node
IP Address: 192.168.0.220

Next, click on the iSCSI target name within the Portals, in this example the name is: iqn.2016-07:dss2.target0.
In the Target manager you can view the connected target's name as well as its size.
4. Create a Volume groups (vg01), on DSS1

Data Server (DSS1)
Source node
IP Address: 192.168.0.220

Under the "CONFIGURATION" tab, select "Volume manager" and next Volume groups.

In the Unit manager select physical units (Unit S002) to create a new volume group (in this case, vg01) and click apply button.

The configuration of connecting to an iSCSI target Volume is now complete.
Thank You!

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