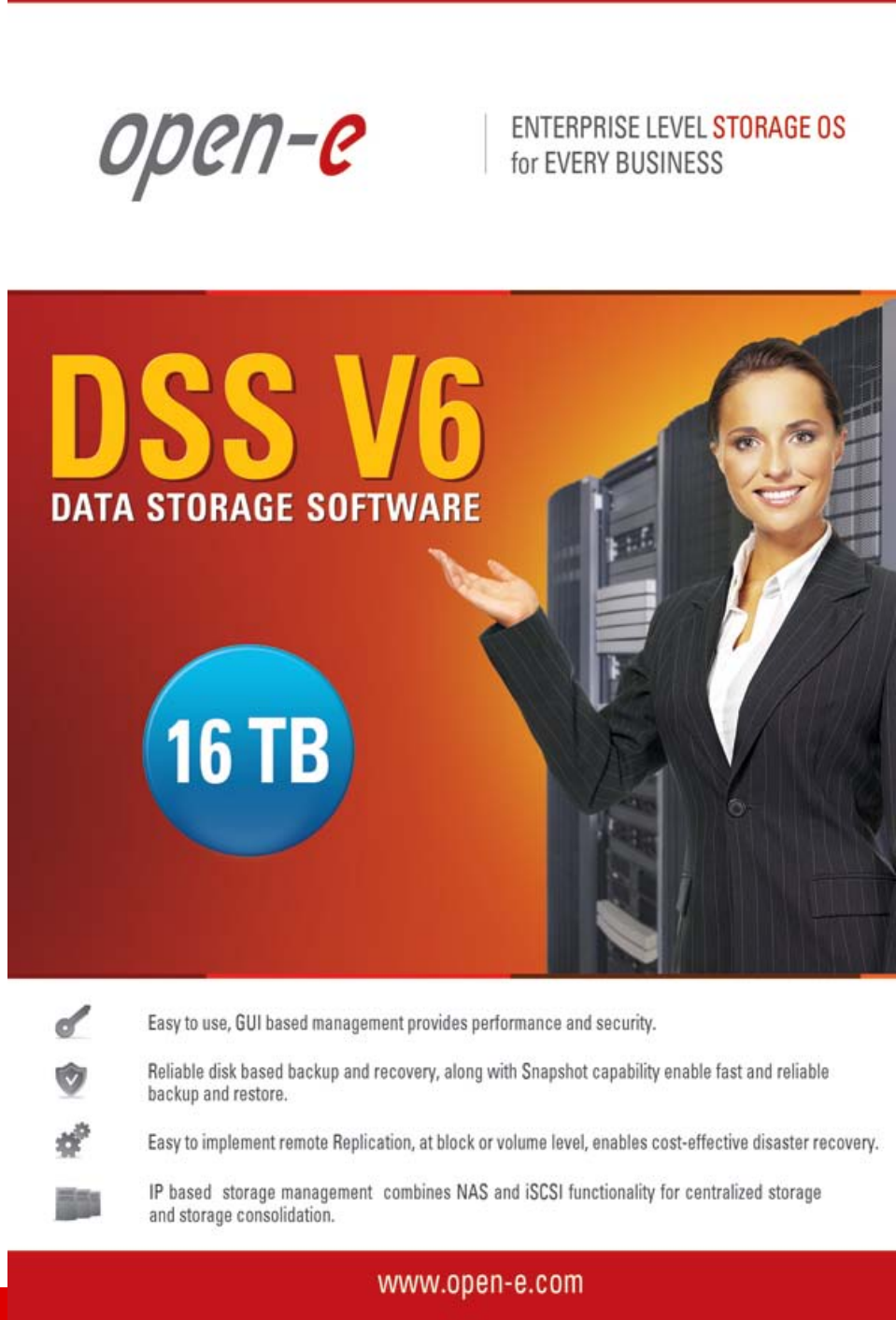
How to Connect a DSS V6 to another DSS V6 with an iSCSI Target Volume

Software Version: DSS ver. 6.00 up13

Presentation updated: September 2010



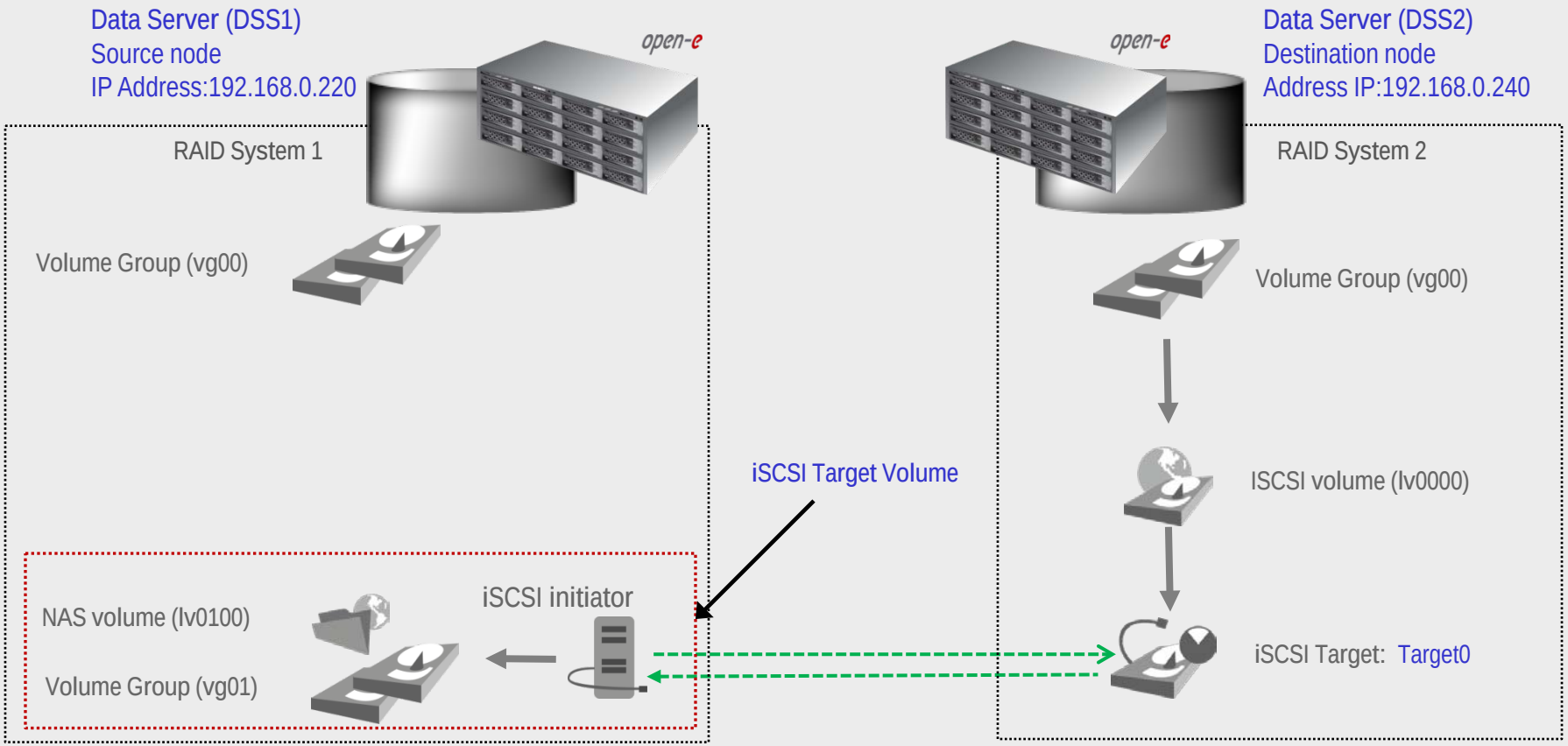
How to Connect to an iSCSI Target Volume over a LAN

To set up a backup using an iSCSI Target Volume over a LAN, between two DSS V6 systems, perform the following steps:

1. Hardware configuration
2. Configure Destination Node:
   - 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
   - Create a Volume Groups (vg01), on DSS1

How to Connect to an iSCSI Target Volume over a LAN

1. Hardware configuration



How to Connect to an iSCSI Target Volume over a LAN

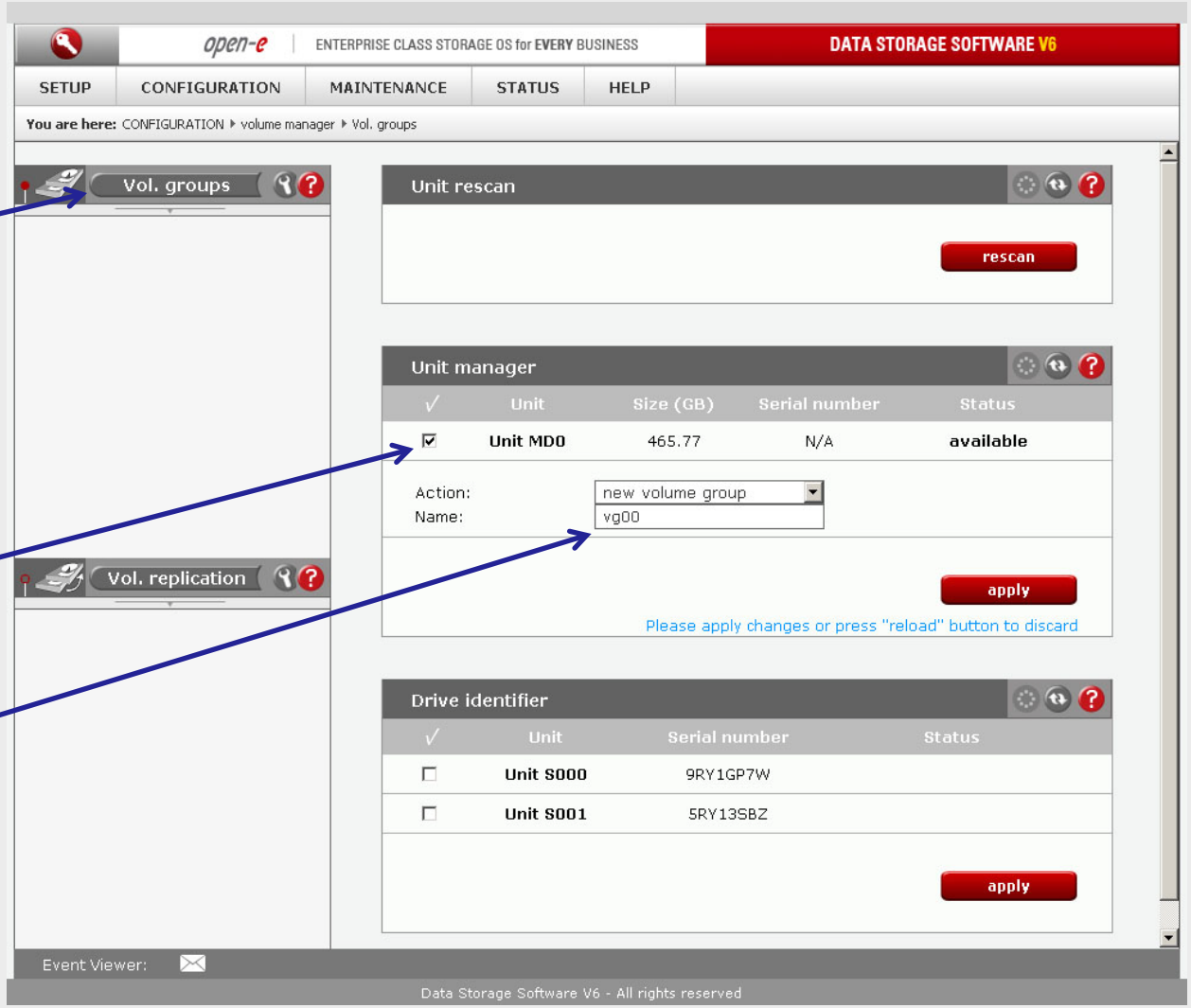
Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

2. Configure Destination Node

Under the “CONFIGURATION” tab, select „volume manager” and next Vol. Groups.

Volume Groups (vg00)

In Unit manager add the selected physical units (Unit MD0 or other) 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

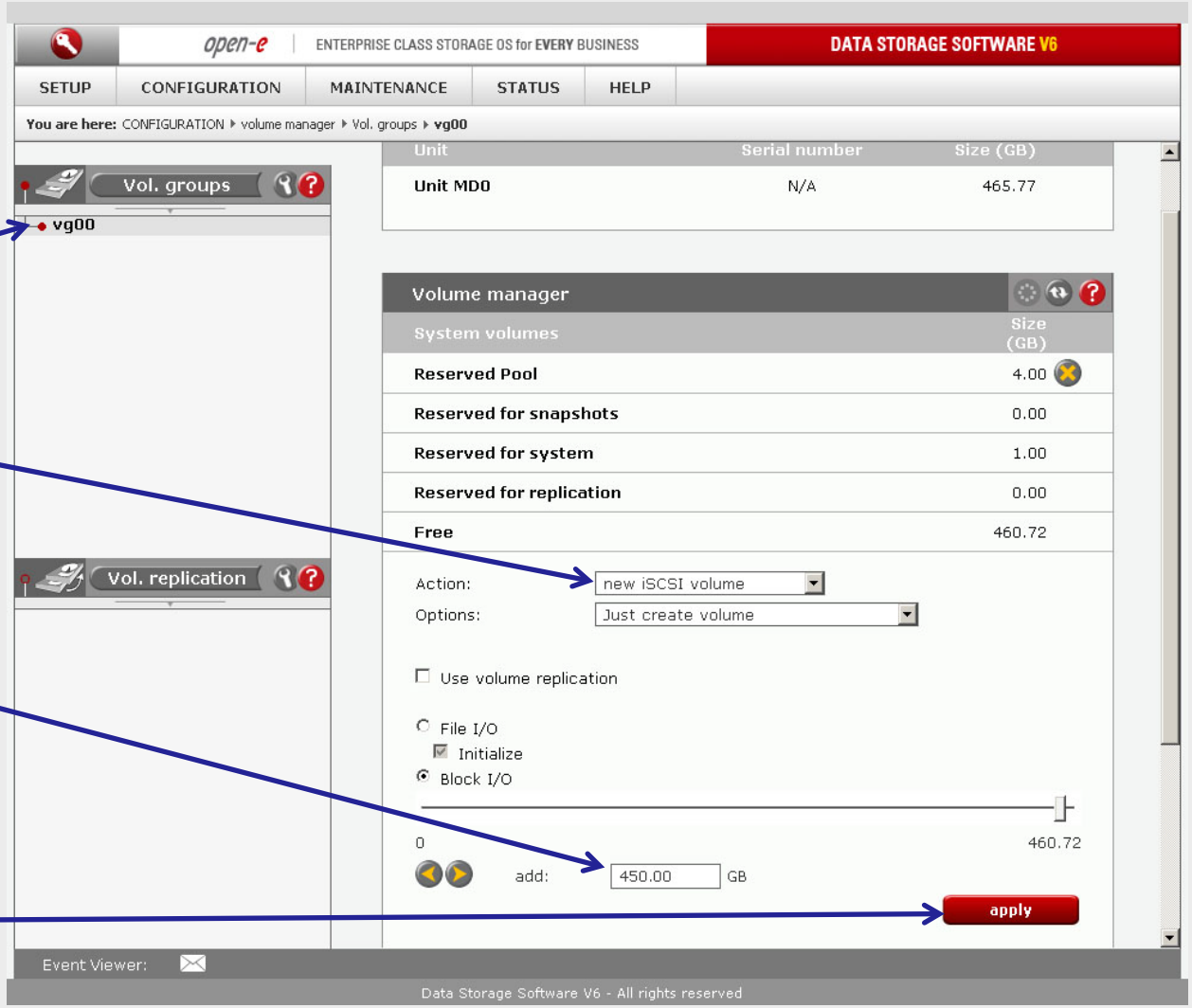
Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

2. … Continue

Select the appropriate volume group (vg00) from the list on the left. In the Action field select a new iSCSI volume for the required size.

Now select the required size of iSCSI volume. In this example we will be adding 450 GB for the iSCSI volume.

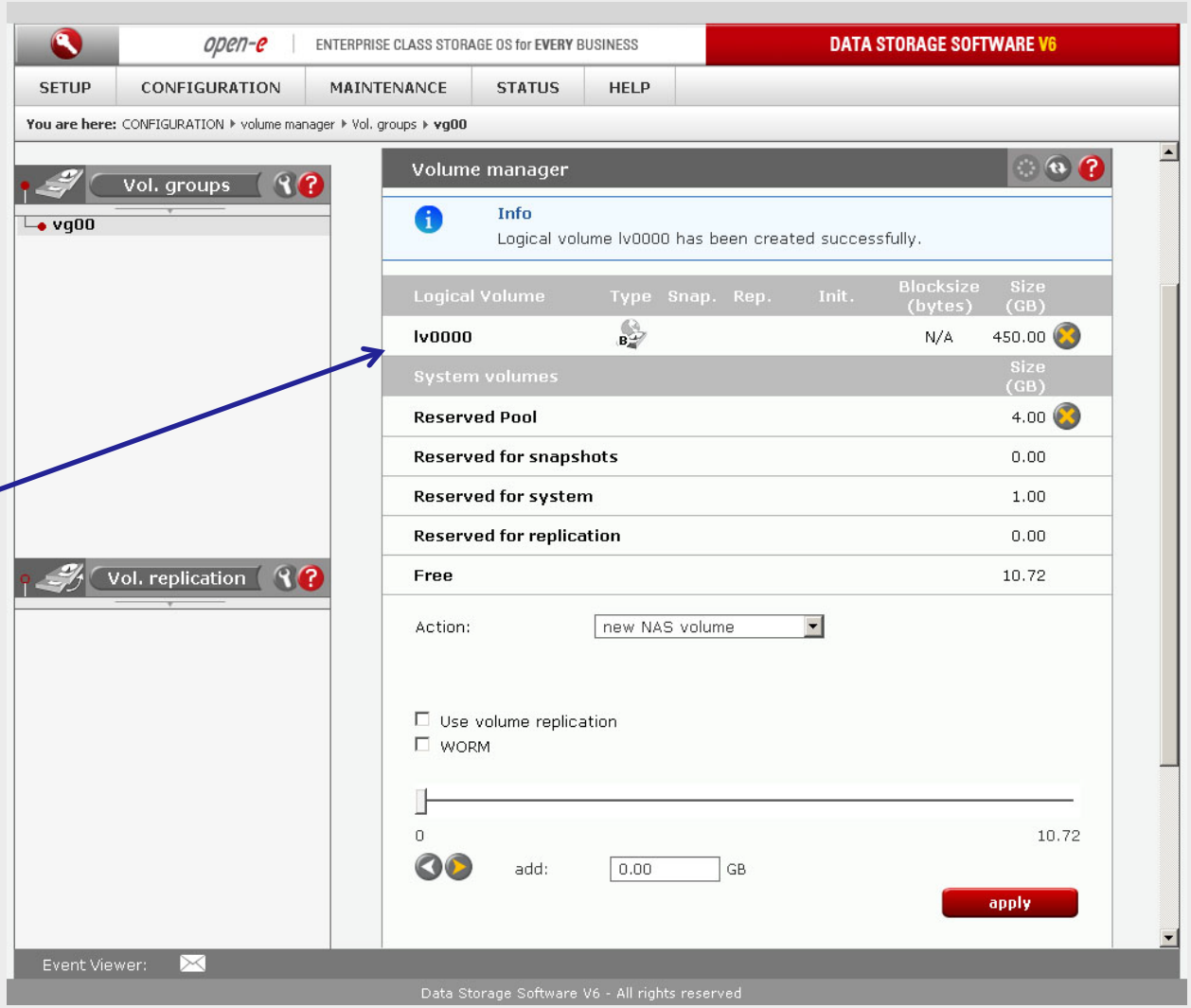
After assigning an appropriate amount of space for the iSCSI volume, click the apply button.



How to Connect to an iSCSI Target Volume over a LAN

Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

2. … Continue



The destination iSCSI Volume Block I/O is now configured.

iSCSI volume (lv0000)

How to Connect to an iSCSI Target Volume over a LAN

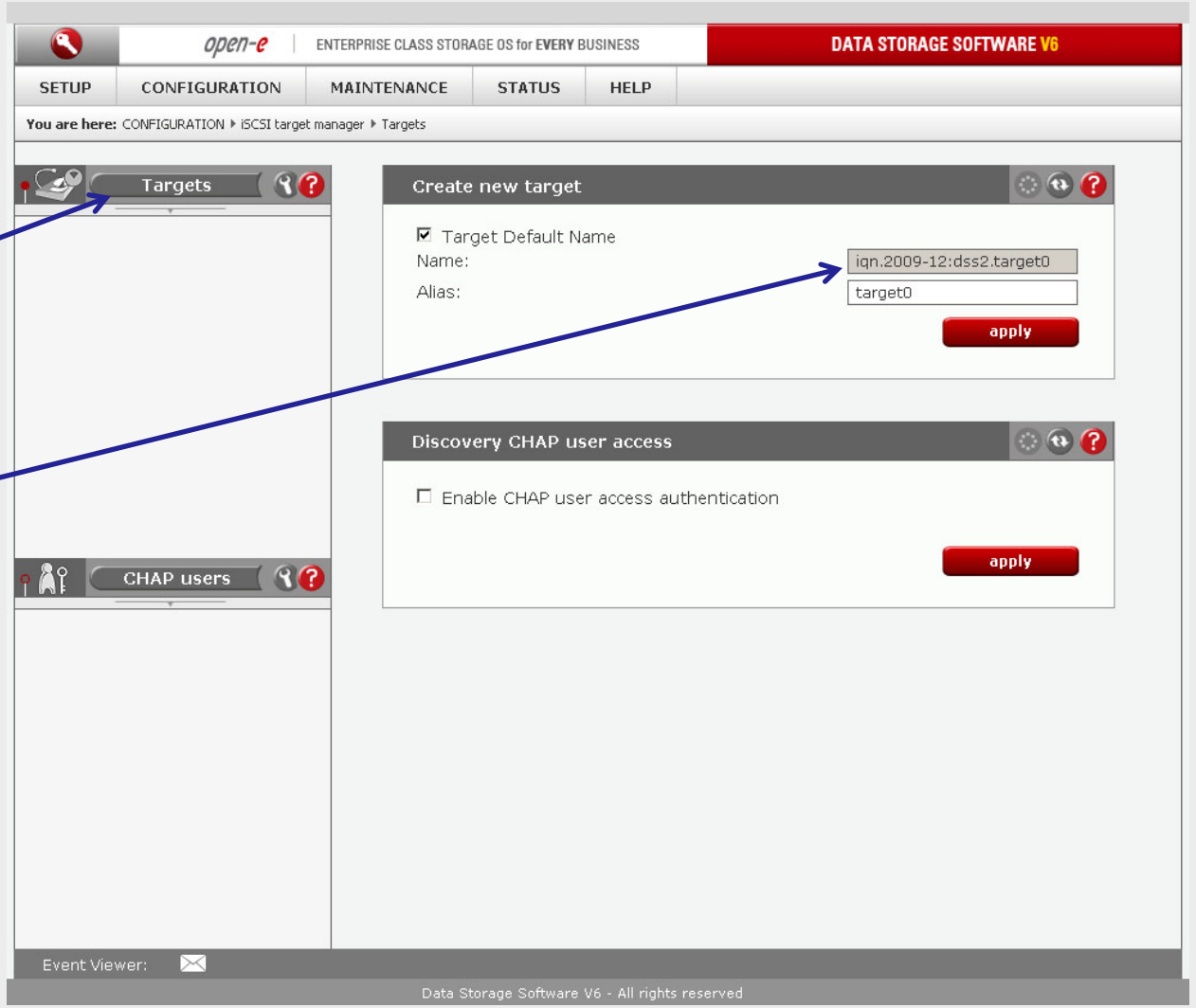
Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

2. … Continue

Choose “CONFIGURATION”, „iSCSI target manager” and “Targets” from the menu

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

iSCSI targets



How to Connect to an iSCSI Target Volume over a LAN

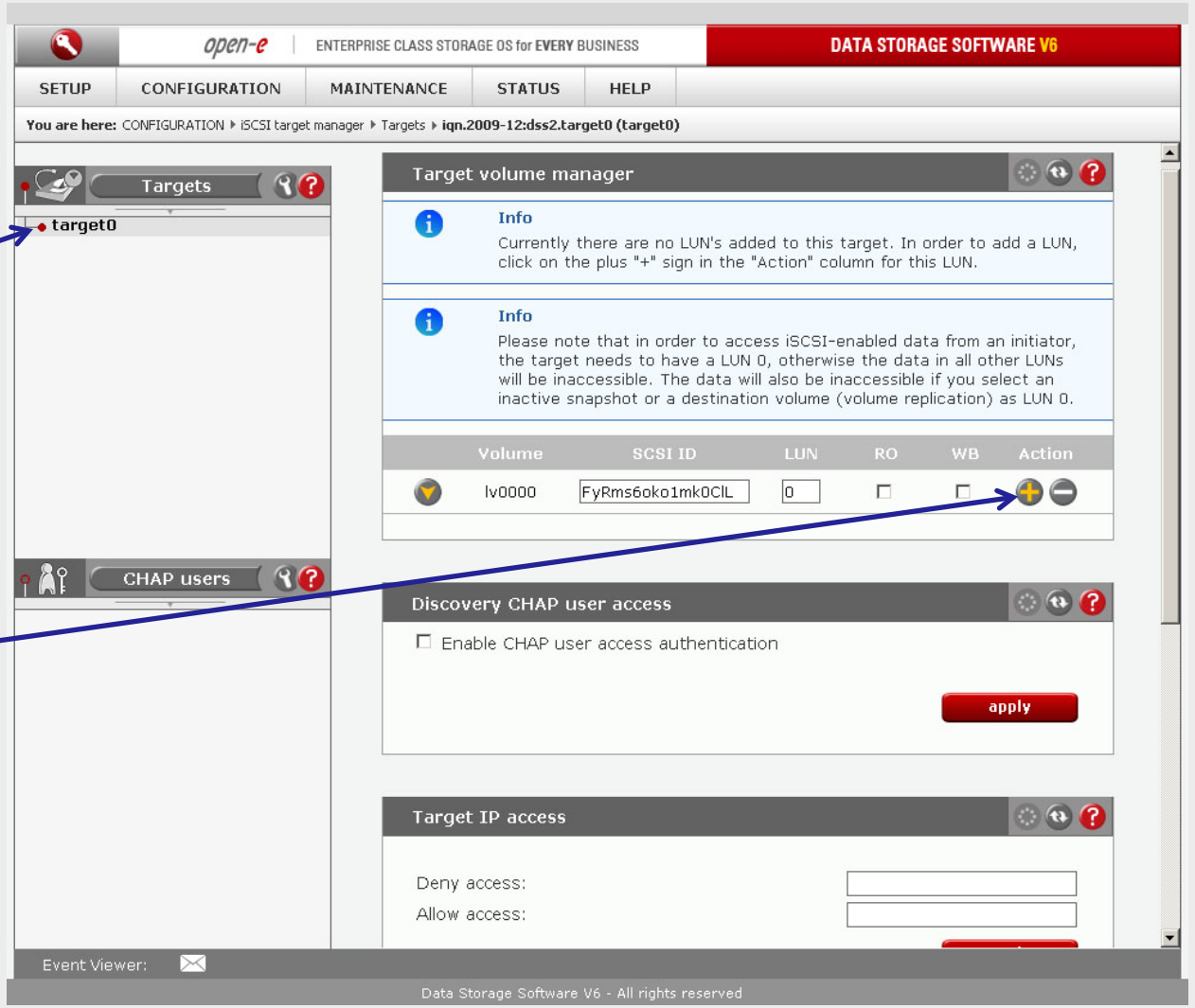
Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

2. … Continue

Select target0 within the Targets field.

iSCSI targets

Assign a volume to the target, click the ⊕ button located under Action.



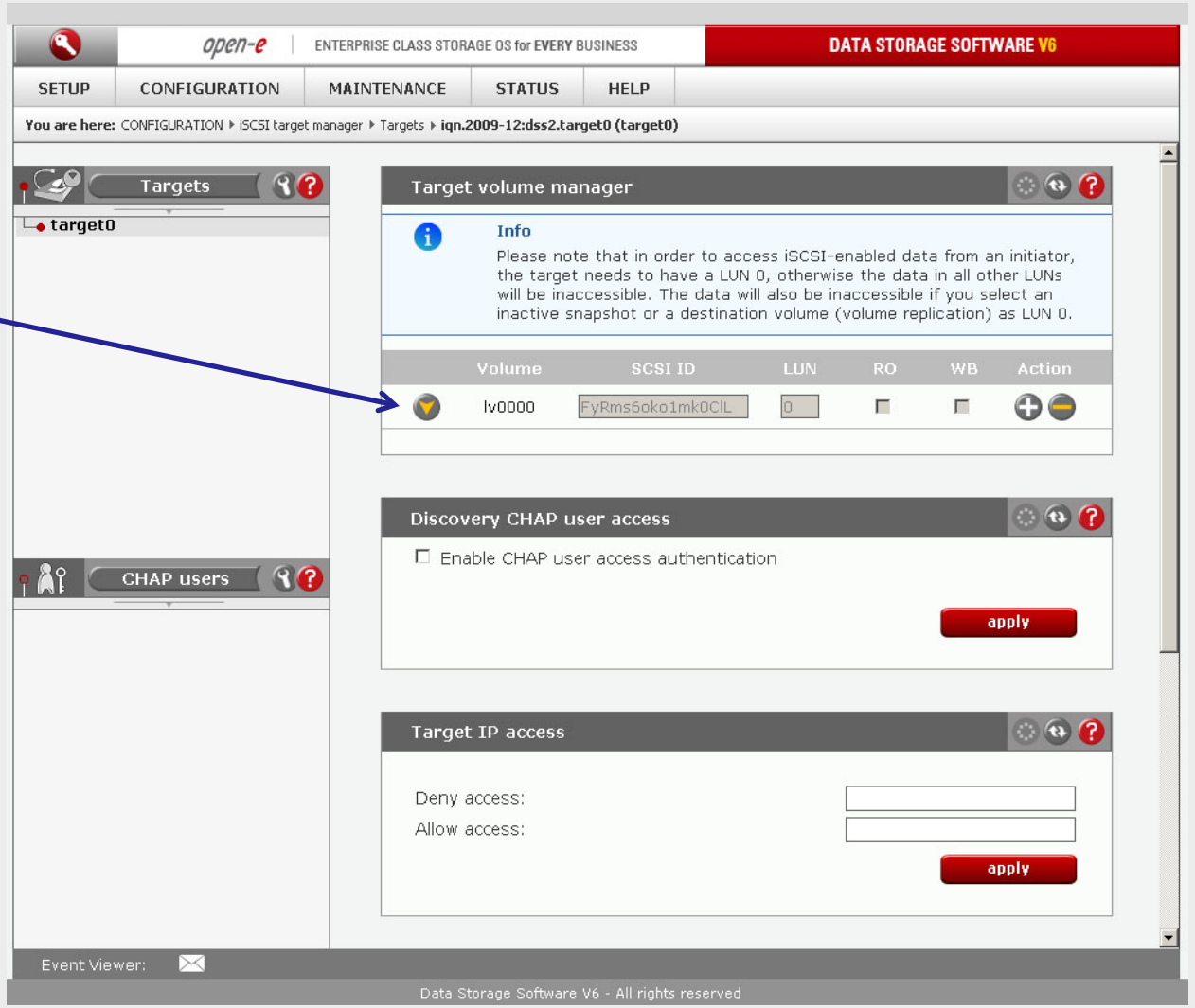
How to Connect to an iSCSI Target Volume over a LAN

Data Server (DSS2)
Destination node
IP Address: 192.168.0.240

2. … Continue

The destination iSCSI target is now configured.

iSCSI targets (target0)



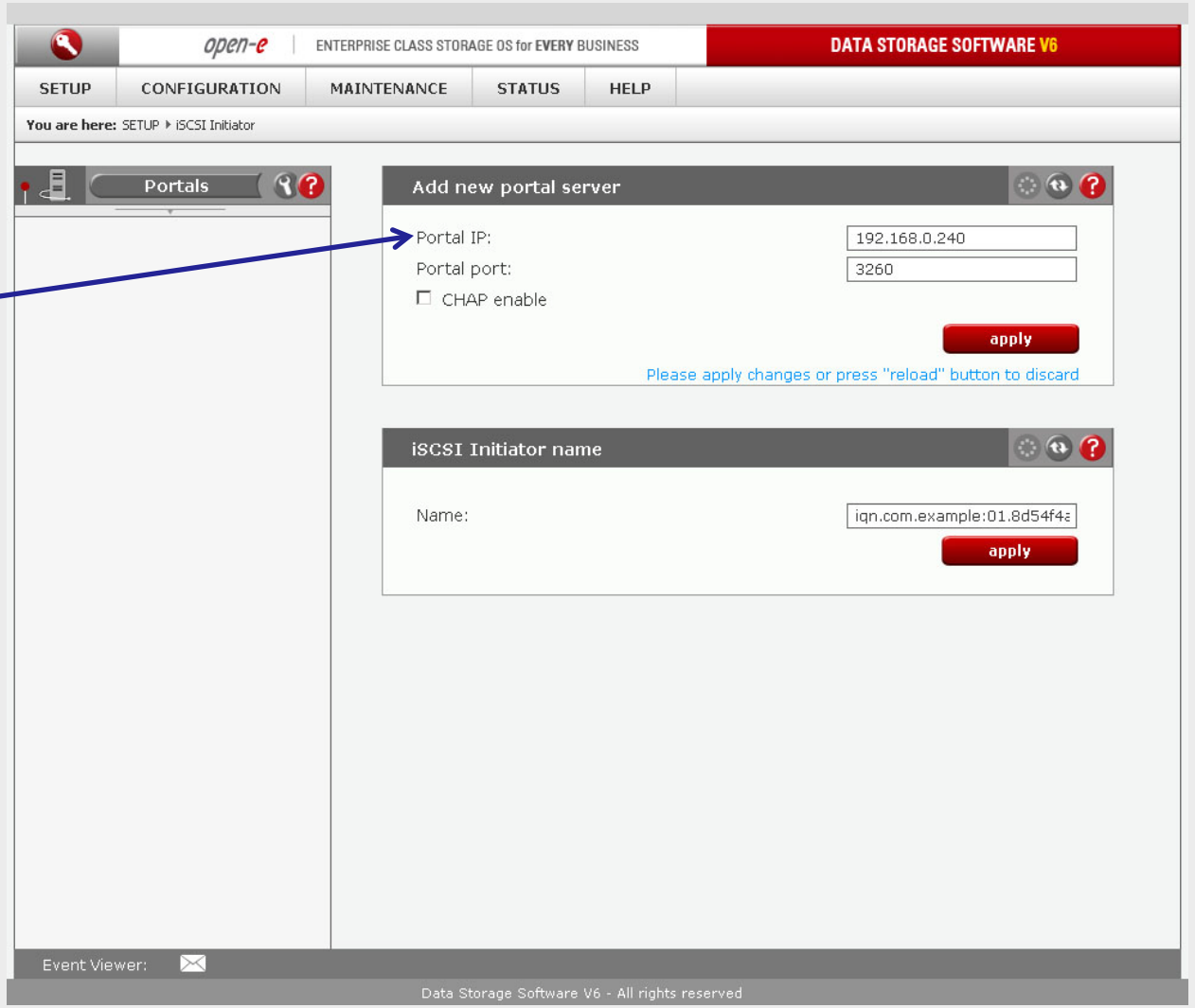
How to Connect to an iSCSI Target Volume over a LAN

Data Server (DSS1)
Source node
IP Address: 192.168.0.220

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.

iSCSI initiators



How to Connect to an iSCSI Target Volume over a LAN

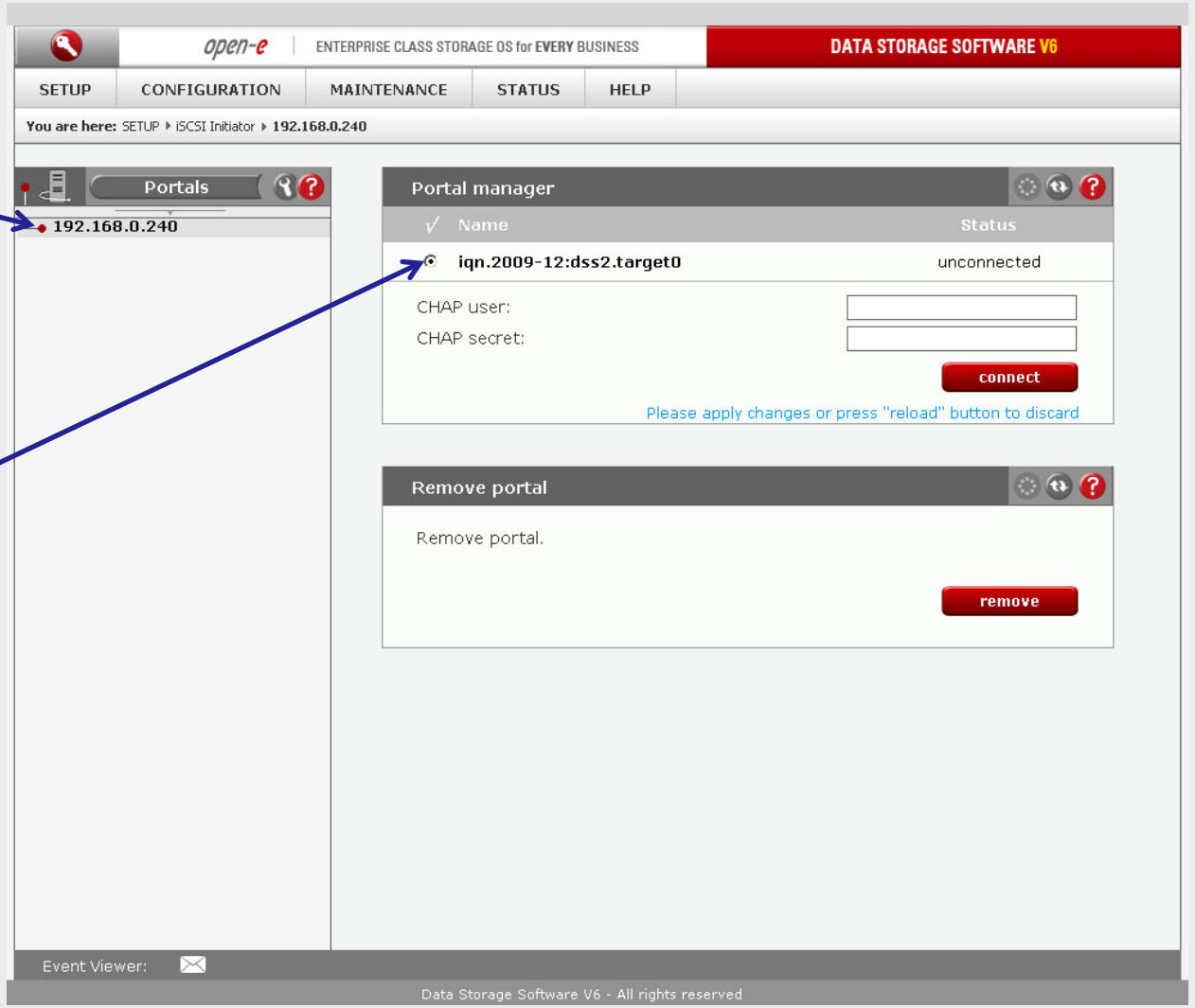
Data Server (DSS1)
Source node
IP Address: 192.168.0.220

3. … Continue

Select 192.168.0.240 within the Portals field.

In Portal manager select the name of the iSCSI targets and click the connect button.

iSCSI initiators



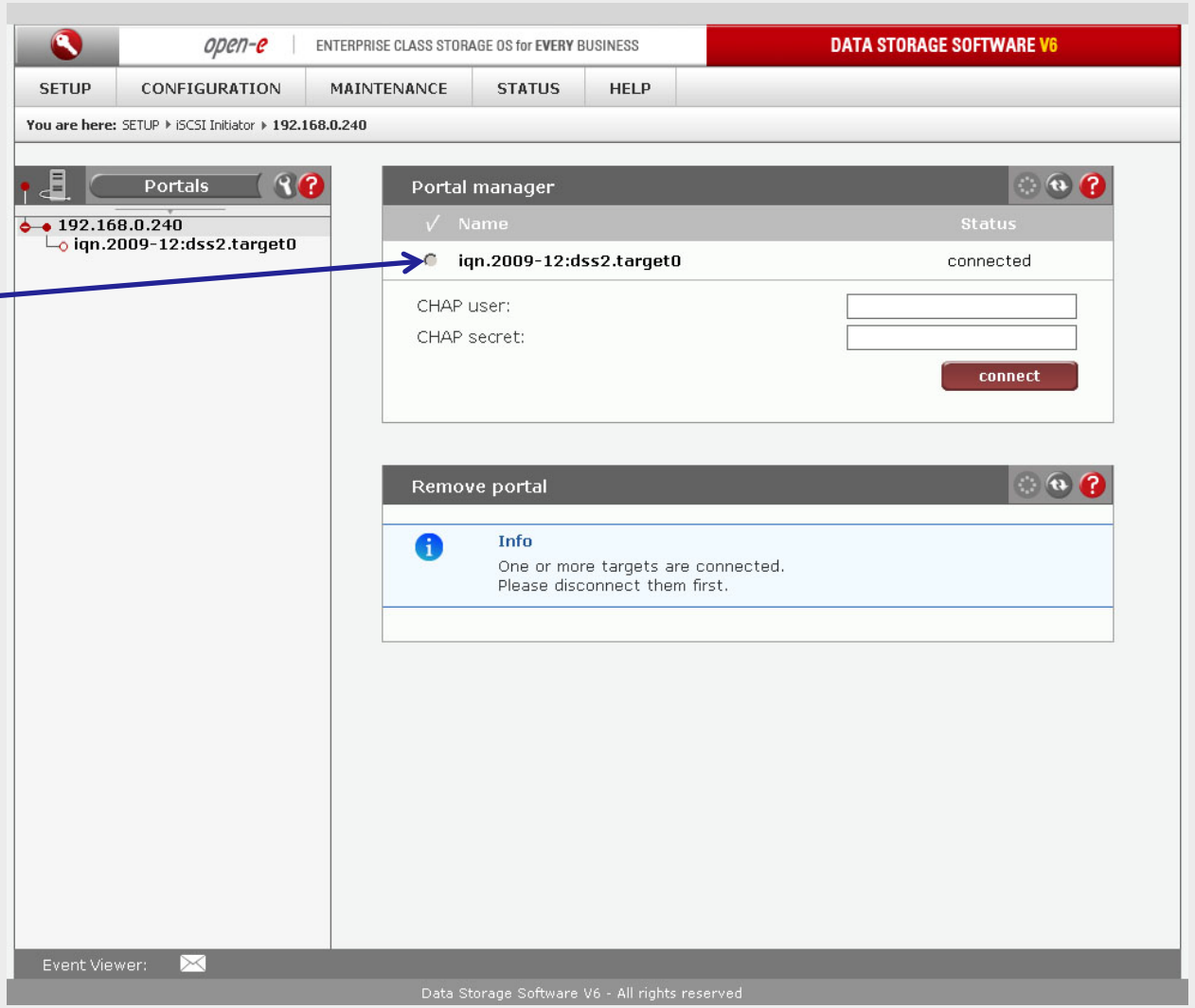
How to Connect to an iSCSI Target Volume over a LAN

Data Server (DSS1)
Source node
IP Address: 192.168.0.220

3. … Continue

iSCSI target: iqn.2009-12:dss2.target0 has been connected successfully.

iSCSI initiators



How to Connect to an iSCSI Target Volume over a LAN

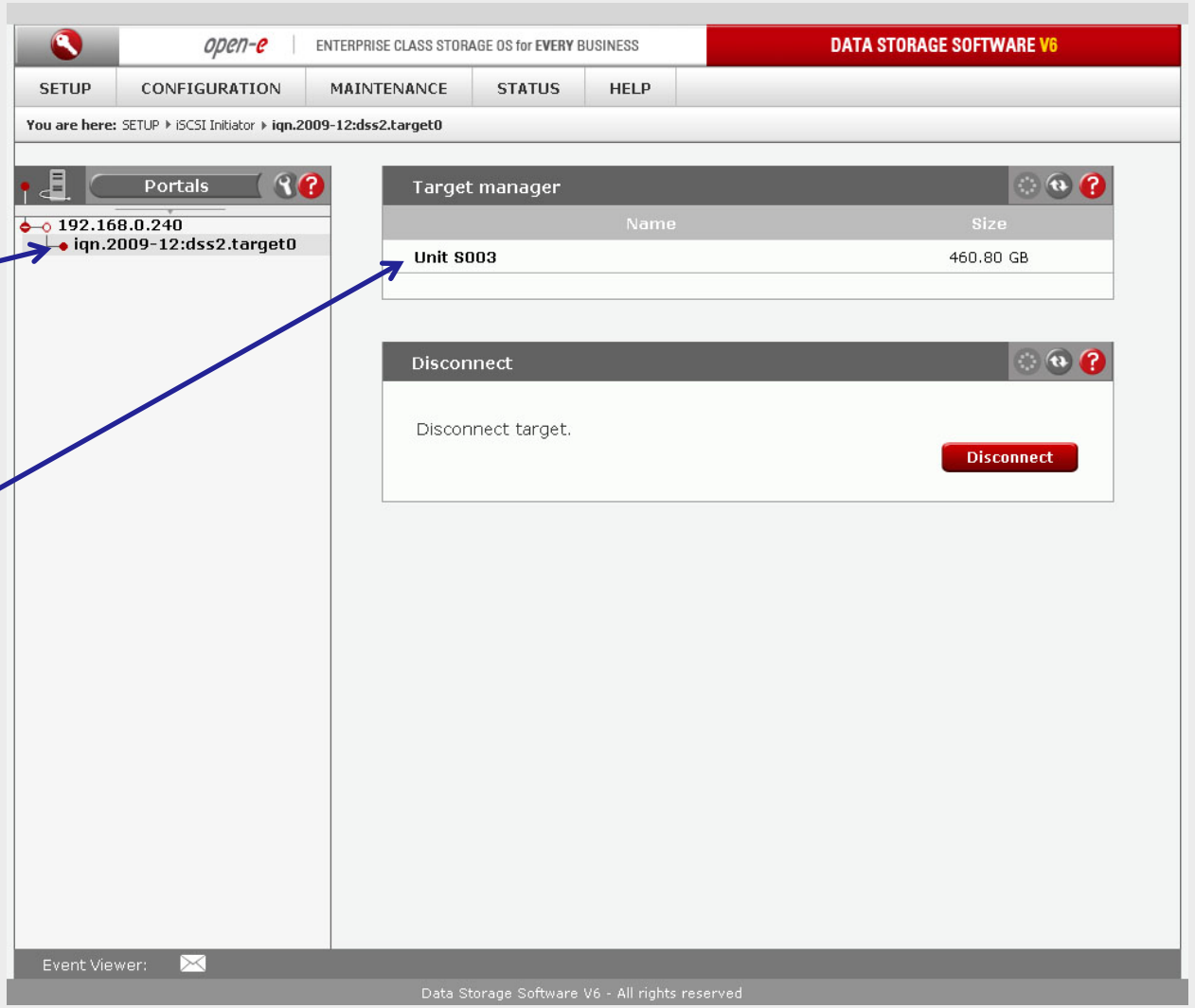
Data Server (DSS1)
Source node
IP Address: 192.168.0.220

3. … Continue

Next, click on the iSCSI target name within the Portals, in this example the name is: iqn.2009-12:dss2.target0.

In the Target manager you can view the connected target's name as well as its size.

iSCSI initiators



How to Connect to an iSCSI Target Volume over a LAN

Data Server (DSS1)
Source node
IP Address: 192.168.0.220

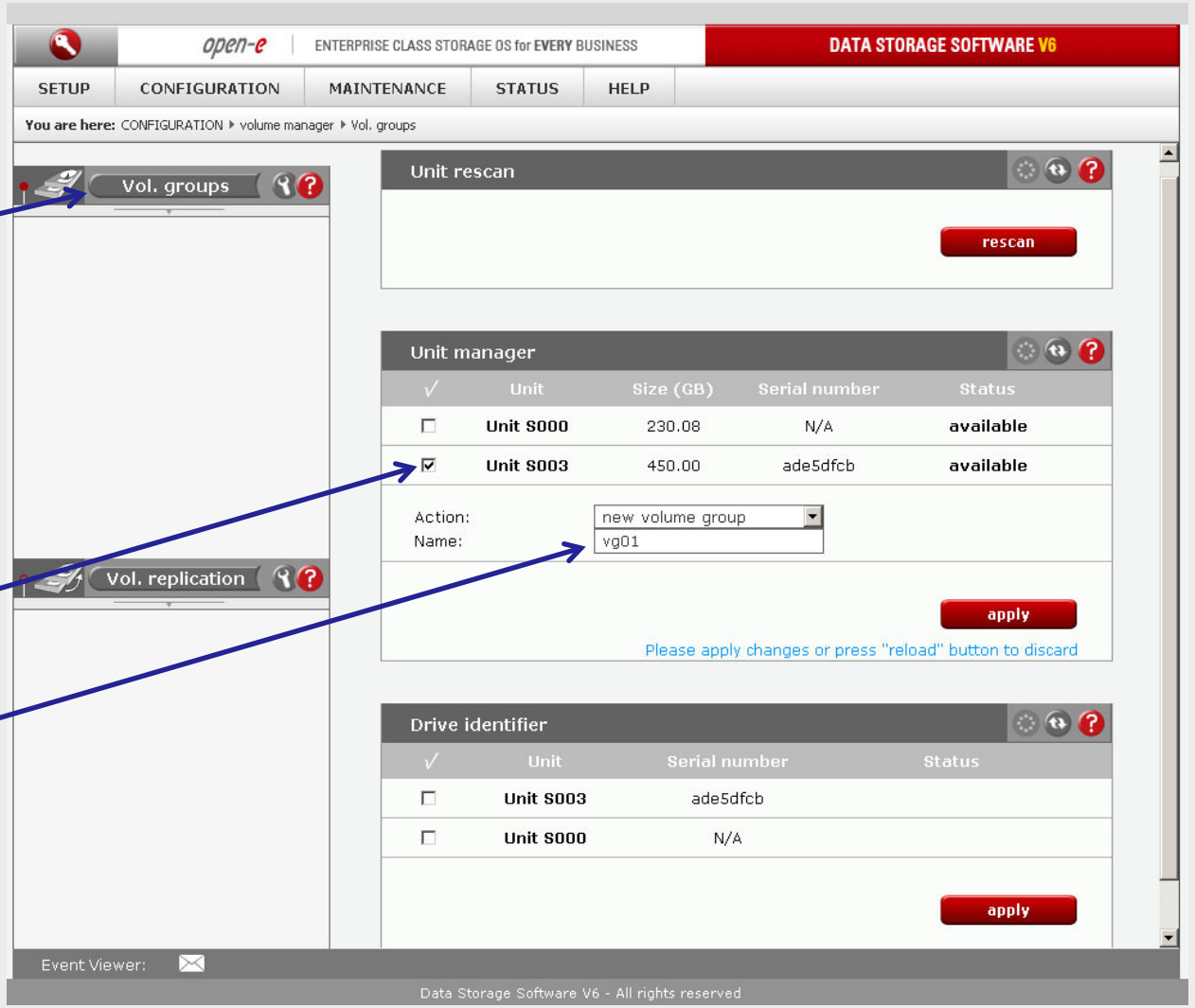
3. … Continue

Under the „CONFIGURATION" tab, select "volume manager" and next Vol. Groups.

Volume Groups (vg00)

In the Unit manager select physical units (Unit S003) 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!