## open-e

#### ENTERPRISE LEVEL STORAGE OS for EVERY BUSINESS

How to Connect to a DSS V6 iSCSI Target volume from a Microsoft Windows





Easy to use, GUI based management provides performance and security.



Reliable disk based backup and recovery, along with Snapshot capability enable fast and reliable backup and restore.



Easy to implement remote Replication, at block or volume level, enables cost-effective disaster recovery.



IP based storage management combines NAS and iSCSI functionality for centralized storage and storage consolidation.

Software Version: DSS ver. 6.00 up13

Presentation updated: September 2010

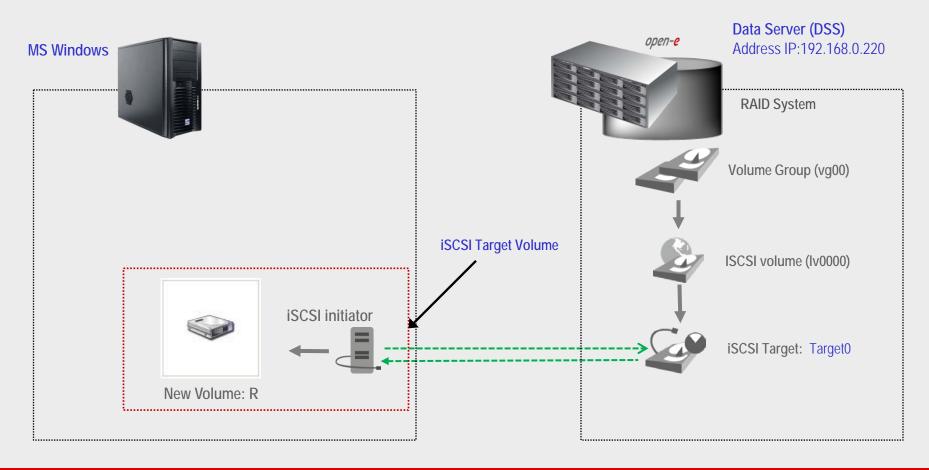
# TO CONNECT TO AN ISCSI TARGET VOLUME OVER A LAN FROM A MICROSOFT WINDOWS SYSTEM, PERFORM THE FOLLOWING STEPS:

- 1. Hardware configuration
- 2. Configure DSS V6:
  - Create a Volume Group, iSCSI volume and target on the DSS V6,
- 3. Configure iSCSI Target Properties
- 4. Initialize the disk from iSCSI target
  - Create a partition assign a letter,
  - Format disk,
- 5. Accessing to the disk

#### 1. Hardware configuration

#### **Hardware Requirements:**

To configure an iSCSI Target Volume in MS Windows, a iSCSi Initiator in the MS system is required and one DSS V6 server with an iSCSI target. In this example the DSS V6 system and Windows 2003 with iSCSI Initiator v. 2.08 will be used.





Data Server (DSS)

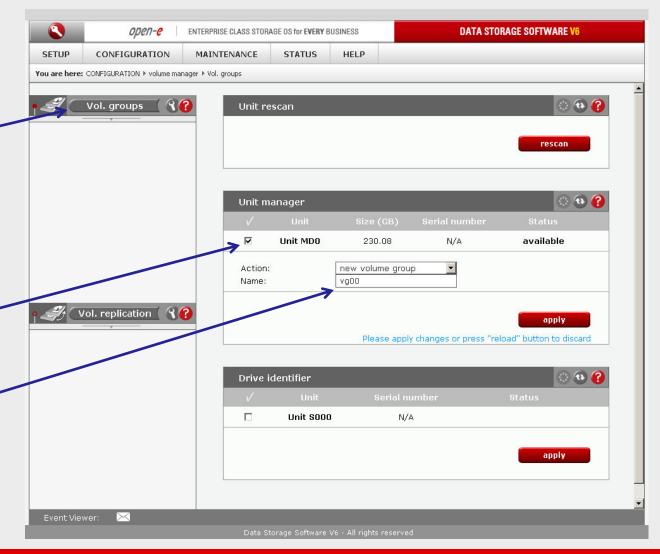
IP Address: 192.168.0.220

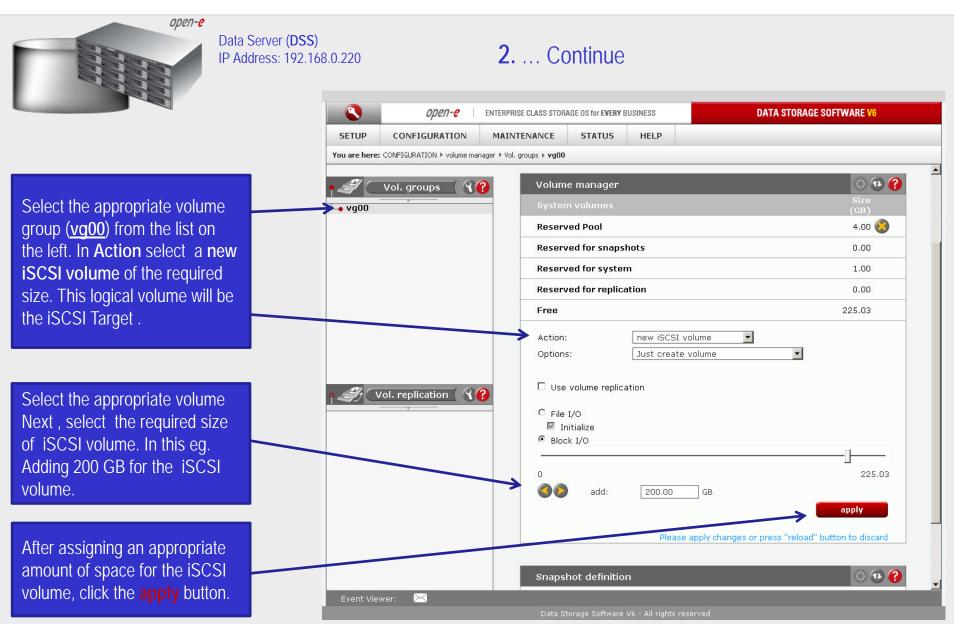
#### 2. Configure DSS V6

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



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.



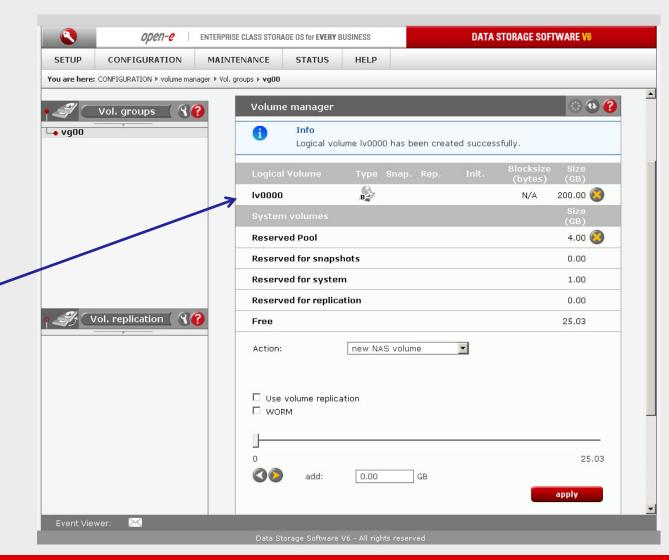






Data Server (DSS) IP Address: 192.168.0.220

#### 2. ... Continue



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

iSCSI volume (Iv0000)





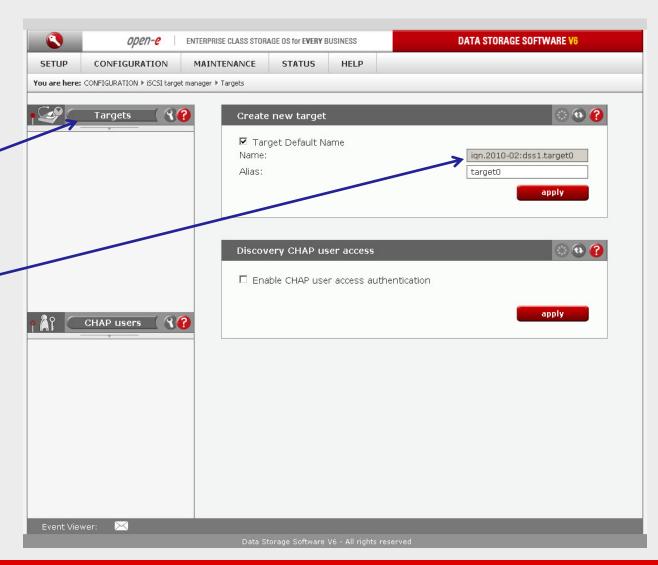
Data Server (DSS) IP Address: 192.168.0.220

#### 2. ... Continue

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

In the Create new target, click the apply to confirm





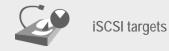




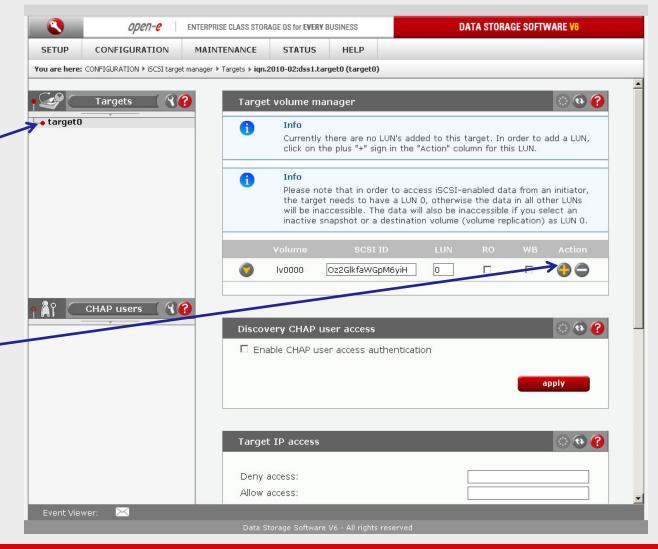
Data Server (DSS) IP Address: 192.168.0.220

#### 2. ... Continue

Select <u>target0</u> within the Targets field.



To assign a volume to the target, click the (6) located under Action.







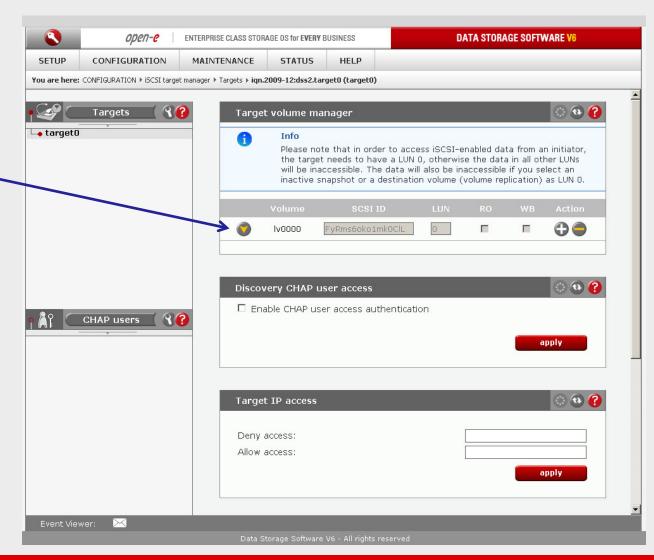
Data Server (DSS) IP Address: 192.168.0.220

2. ... Continue

The destination iSCSI target is now configured.



iSCSI targets (target0)

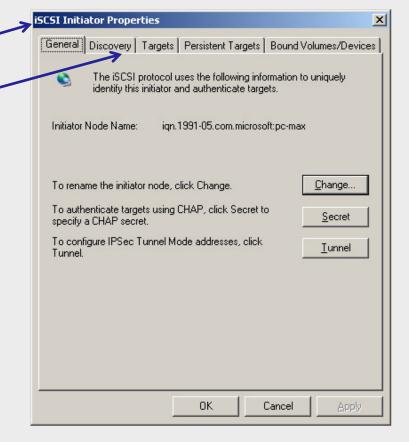






**3.** Configure iSCSI Target Properties

In the MS Windows Environments run "iSCSI Initiator Properties". After running the program click on the "Discovery" tab.

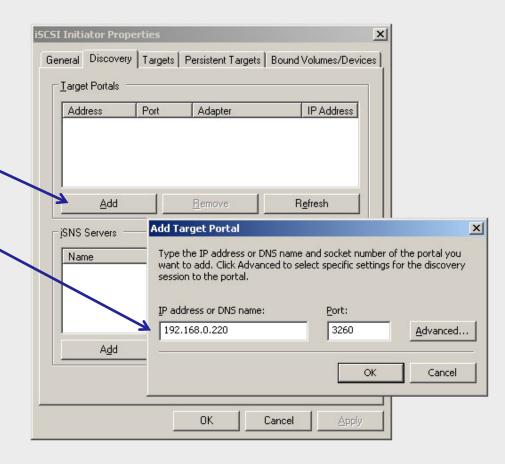






#### 3. ... Continue

Next, click on "Add" button. In "Add Target Portal" windows then enter the IP address of the DSS V6 server and click on the "OK" button.



#### NOTE:

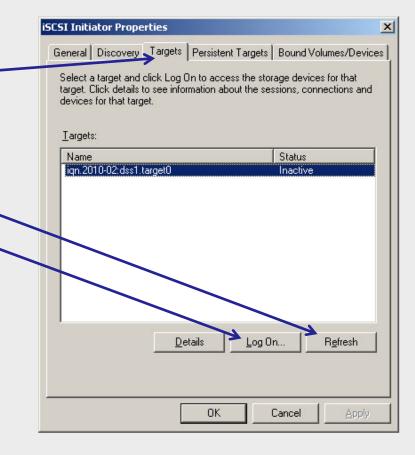
The port number of 3260 will already be there as this is the default iSCSI port number.



**MS Windows** 

3. ... Continue

Go to the "Targets" tab and click "Refresh". You should see the name of your iSCSI Target in the list. Select your target server and click "Log On".



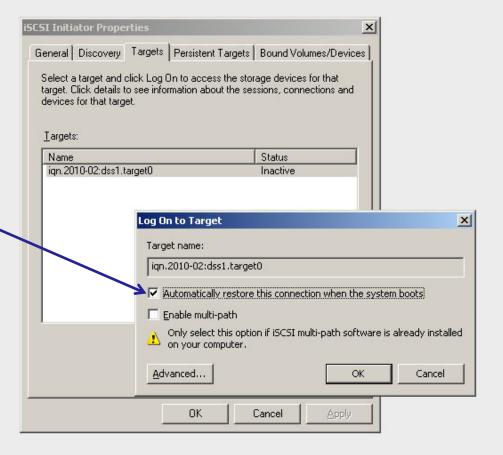


**MS Windows** 

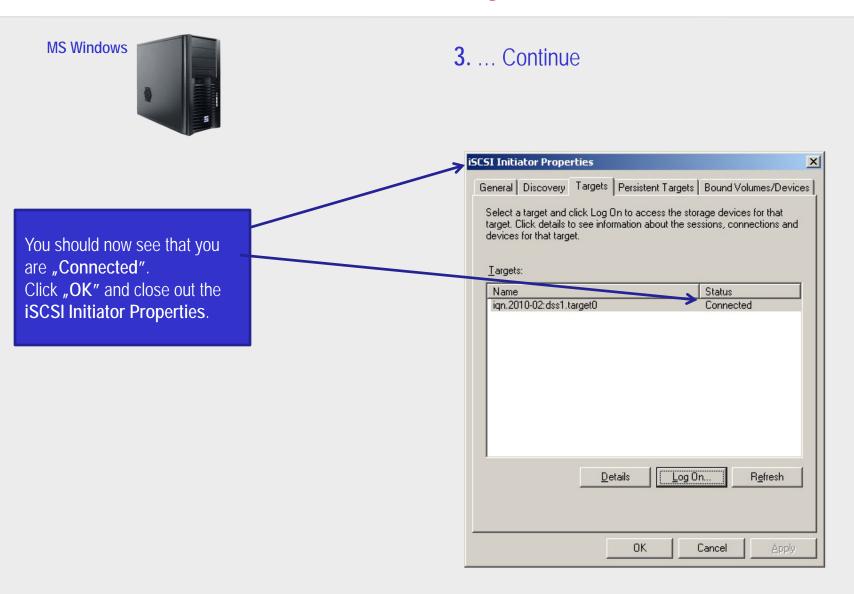


In "Log On to Target" windows please check to "Automatically restore this connection when the system boots and click "OK".

#### 3. ... Continue





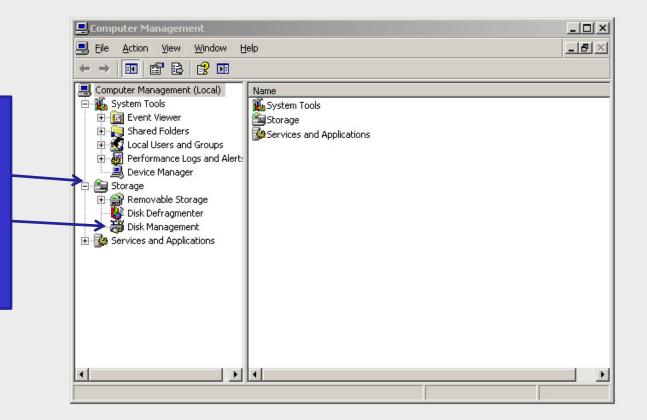






4. Initialize the disk from iSCSI target

Now click on "Administrative Tools", open "Computer" Management", and click on "Storage" -> "Disk Management". You will have to initialize the disk if it hasn't been used before.



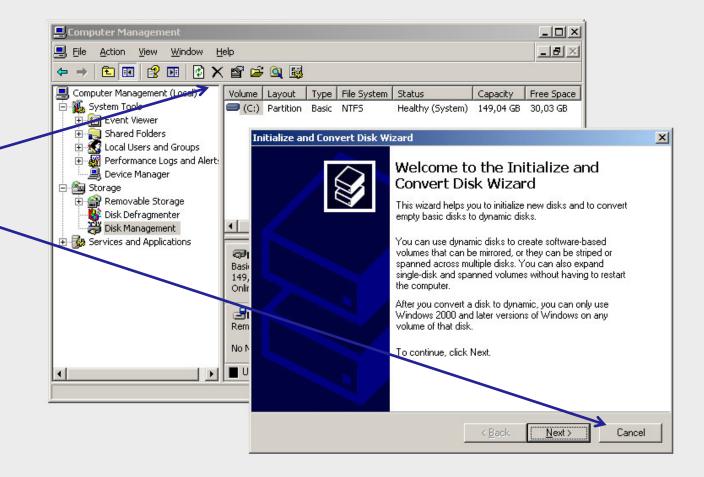


**MS Windows** 



After connecting to Logical Disk Manager in "Disk Management" there will appear ...Initialize and Convert Disk Wizard". In this example, before you connect to the basic disk, please click ,, Cancel" button.

#### 4. Continue





**MS Windows** 

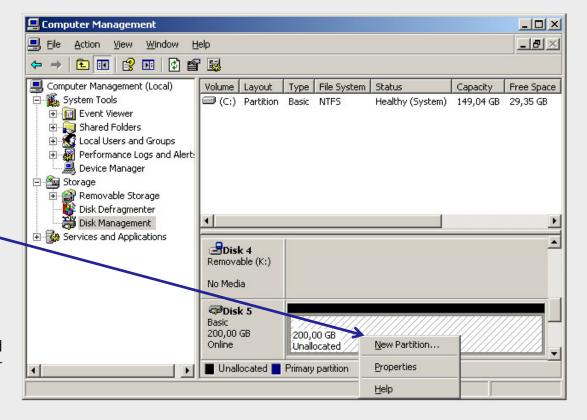


4. ... Continue

Right click on the disk 5 and click on "New Partition".

#### NOTE:

In this example Windows OS has assigned the Disk number 5. Please note, in other system this number can differ!



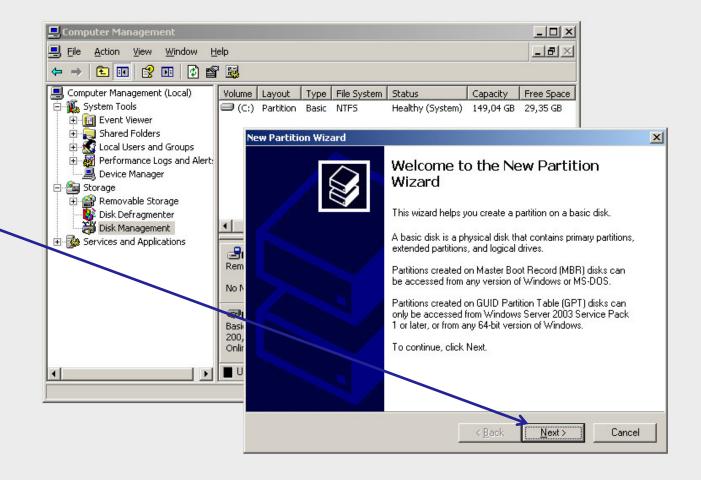


**MS Windows** 



4. Continue

In "New partition Wizard" click "Next" button.

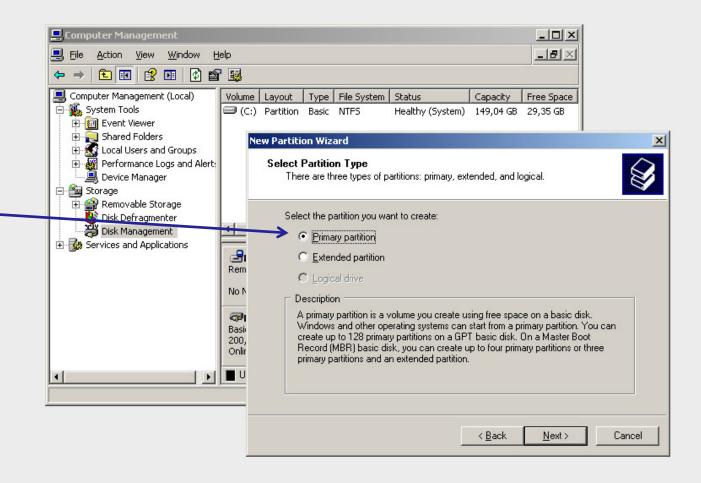




**MS Windows** 

4. Continue

Please select "Primary partition" and click the "Next" button.



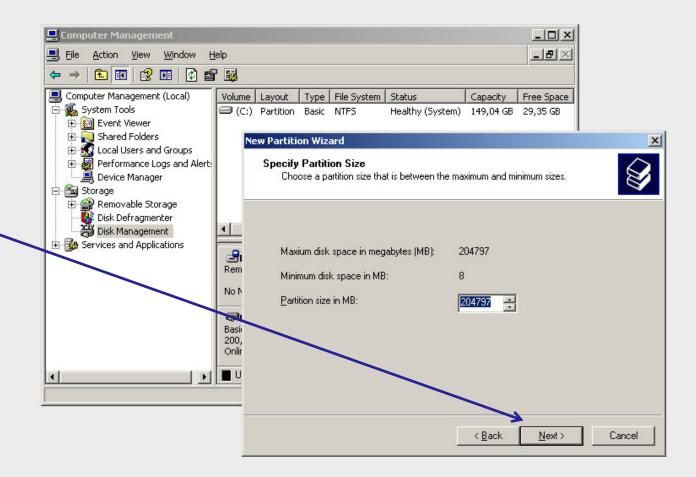


**MS Windows** 



4. ... Continue

In order to use the maximum disk space on the disk click the "Next" button.



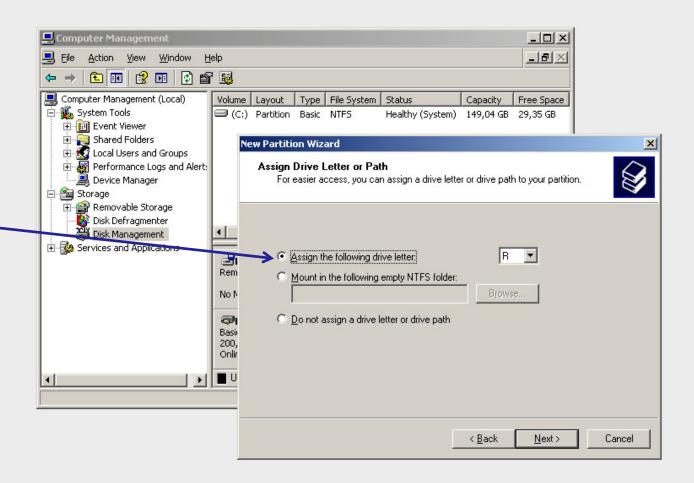


**MS Windows** 



4. ... Continue

Next assing the drive letter (in this example as R), and click the "Next" button.



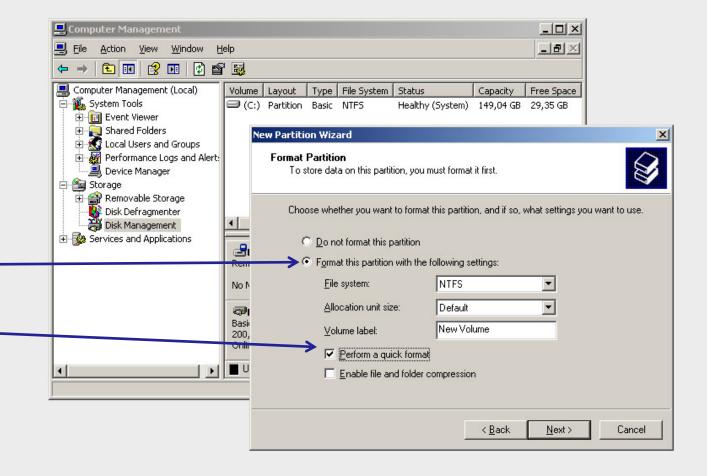


**MS Windows** 



#### 4. Continue

In the MS Windows New Partition Wizard select the format of choice, in this example we will use the NTFS File system then check the Perform a quick format and click "Next" to complete the format.



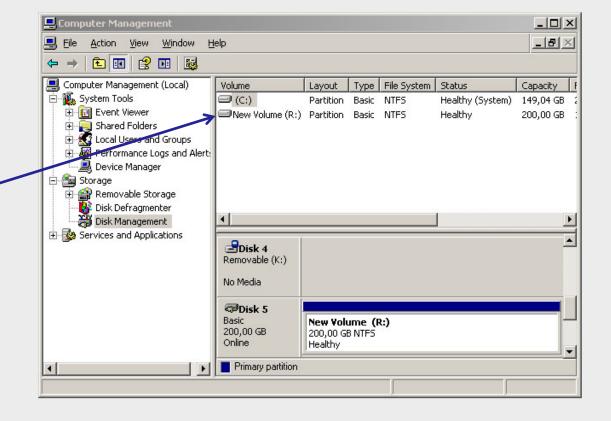


**MS Windows** 



4. ... Continue

When you are done, your disk manager should look like this:

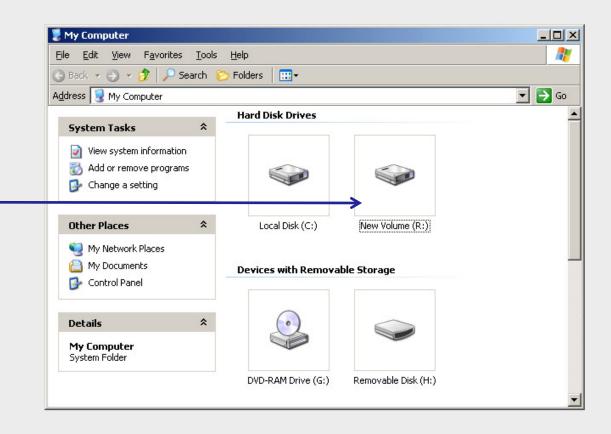






**5.** Accessing to the disk

You can now access your shared iSCSI disk in "My Computer" as a drive letter R.



The configuration of connecting to an iSCSI Target Volume in MS Windows is now complete.



### Thank you!

