

# How to set up Windows Server 2008 R2 <=> NexentaStor MULTIPATHING

1. Connect all the hardware (sample diagram below)
2. On the Windows server, install appropriate management software for the Fibre Channel configuration (the software typically comes in a package with the FC HBAs).



### 3. Enable MPIO feature on Windows Server:

The screenshot shows the 'Initial Configuration Tasks' window in Windows Server 2008 R2. The window is titled 'Initial Configuration Tasks' and contains the following sections:

- Provide Computer Information** (Specifying computer information)
  - Activate Windows: Product ID: Not activated
  - Set time zone: Time Zone: (UTC-08:00) Pacific Time (US & Canada)
  - Configure networking: Local Area Connection 4: 10.1.1.15, IPv6 enabled; Local Area Connection 5: 172.10.1.15, IPv6 enabled
  - Provide computer name and domain: Full Computer Name: WIN-2008R2; Workgroup: NEXENTA
- Update This Server** (Updating your Windows server)
  - Enable automatic updating and feedback: Updates: Install updates automatically using Windows Update; Windows Error Reporting on; Participating in Customer Experience Improvement Program
  - Download and install updates: Checked for Updates: Today at 2:11 PM; Installed Updates: Yesterday at 6:37 PM
- Customize This Server** (Customizing your server)
  - Add roles: Roles: Hyper-V
  - Add features: Features: Multipath I/O, Remote Server Administration Tools, Storage Manager for SANs
  - Enable Remote Desktop: Remote Desktop: Enabled
  - Configure Windows Firewall: Firewall: Public: On

At the bottom of the window, there is a 'Print, e-mail, or save this information' link and a 'Do not show this window at login' checkbox. The taskbar shows the Start button, taskbar icons, and the system tray with the time 5:37 PM and date 12/15/2009.

4. Set up zvol on NexentaStor, as per the appliance's [User Guide](#).
5. Create Initiator group for more security:

The screenshot shows the Nexenta web interface. The top navigation bar includes links for 'About', 'Support', 'Add Capacity', 'Register', and 'Help'. Below this are tabs for 'Status', 'Settings', 'Data Management', and 'Analytics'. A secondary navigation bar contains icons for 'Data Sets', 'Shares', 'SCSI Target', 'Services', and 'Runners'. The main content area is titled 'MANAGE GROUPS OF REMOTE INITIATORS' and features a sub-section 'Initiator Groups [create]' with the IP address '172.10.1.52'. A table lists two remote initiators:

#	Remote Initiator
1	www.2101001B322E7359
2	www.2100001B320E7359

The left sidebar contains a 'COMSTAR' section with options for 'Mappings', 'Initiator groups', and 'Target groups'. Below it is a 'Zvols' section with 'View' and 'Create' options. At the bottom is an 'iSCSI' section.

6. Create LUN Mappings (see NexentaStor [SCSI Target](#) documentation for details)

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The main content area is titled 'MANAGE MAPPINGS'. On the left, there is a sidebar with a 'COMSTAR' dropdown menu and three sections: 'Mappings' (Manage mappings), 'Initiator groups' (Manage groups of remote initiators), and 'Target groups' (Manage groups of local targets). Below this are sections for 'Zvols' (View/Create) and 'iSCSI' (Remote Initiators, Targets, Target Portal Groups).

The 'MANAGE MAPPINGS' section shows a 'Mappings [create]' header. There are two mapping entries:

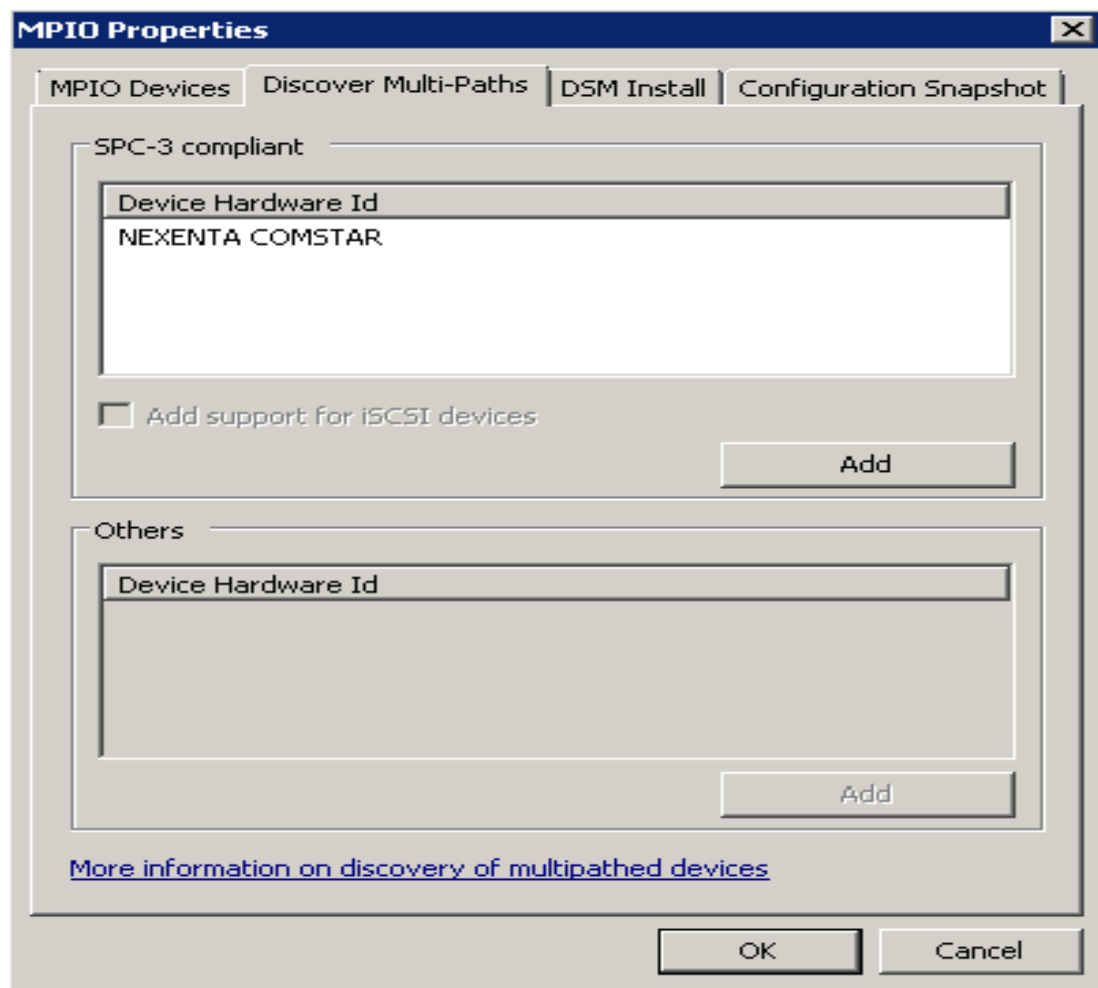
- test/test4**: A table with columns '#', 'LUN #', and 'Initiator's Group'. It contains one row with values '1', '1', and 'All'. A 'Delete' button is below the table.
- test/test2**: A table with columns '#', 'LUN #', and 'Initiator's Group'. It contains one row with values '1', '0', and 'All'. A 'Delete' button is below the table.

A 'Create new mapping' dialog box is open in the foreground. It has the following fields:

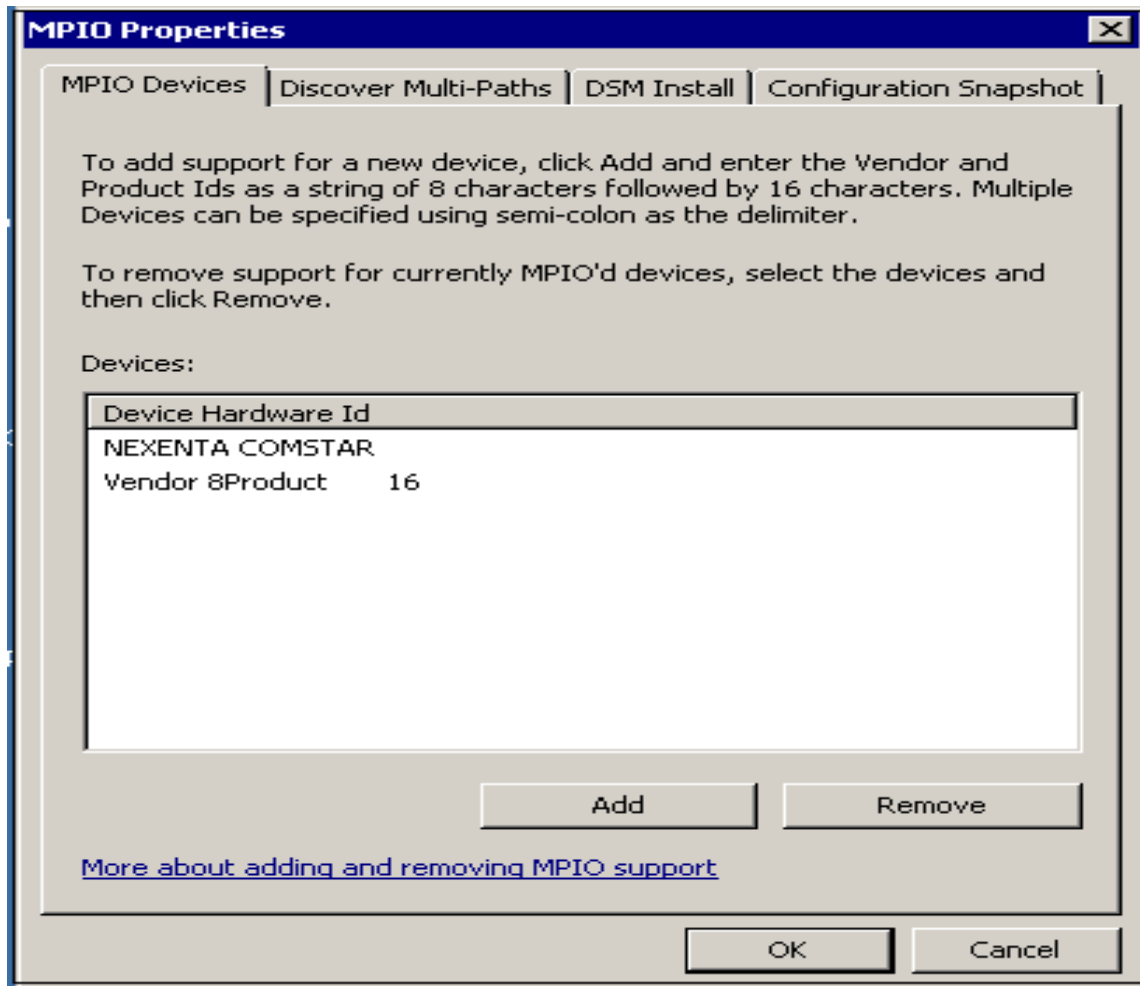
- Zvol:** test/test
- Initiator group:** 172.10.1.52
- Target group:** CSL\_FC\_GROUP
- LUN #:** <AUTO>

At the bottom of the dialog box are 'Create' and 'Cancel' buttons.

7. On the Windows side, run MPIO – press start and in search type MPI
8. Go to Discover Multi-Paths - under Device Hardware Id you should see NEXENTA COMSTAR
9. Press "Add" - It will require reboot



10. After reboot you should see NEXENTA COMSTAR in list of devices



- 11. Administrative tools >> Server management >> Disk Management
- 12. Disks is available now – just need to be initialized them.

