Celerra Tools

Configure Unused or New Disks

(FC and Navisphere Express)

To configure unused or new disk devices for certain Celerra Fibre-Channel enabled system, you can use Navisphere Express. The Celerra Fibre-Channel enabled system stores data on Celerra user LUNs. If the user LUNs are not configured correctly on the array, Celerra automatic volume management and the Celerra Manager cannot be used to manage the storage.

To create virtual disks on your storage array for use by your Celerra system with Navisphere Express, do the following:

1. To start **Navisphere Express**, open an internet browser such as Internet Explorer or Mozilla Firefox.
2. Type the IP address of a Storage Processor for the storage system into the internet browser address bar.

Note: This IP address is the one that you assigned when you initialized the storage system.

3. Type the **user name** and **password** to log in to **Navisphere Express**. (Figure 1)

Note: The Default Username is **nasadmin** and the default password is **nasadmin**.

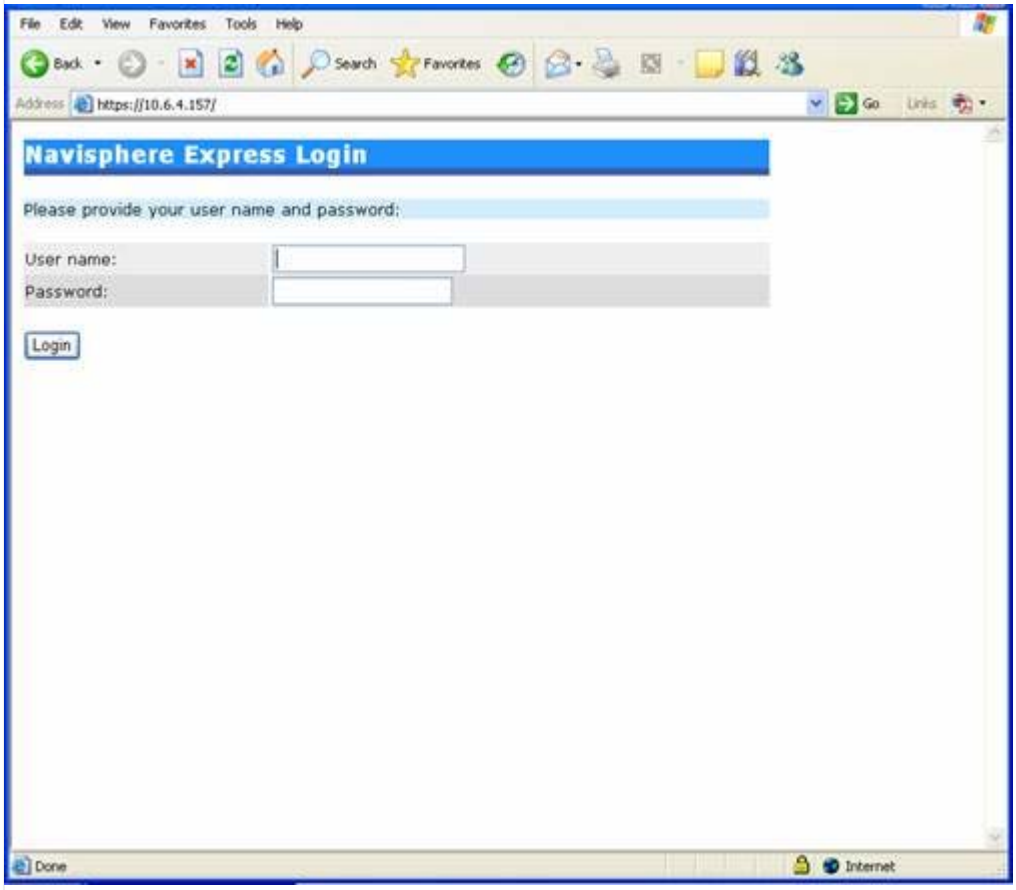

Figure 1: Navisphere Express Login page

4. To configure unused storage, select **Disk Pools** in the left navigation panel from the initial screen. (Figure 2)

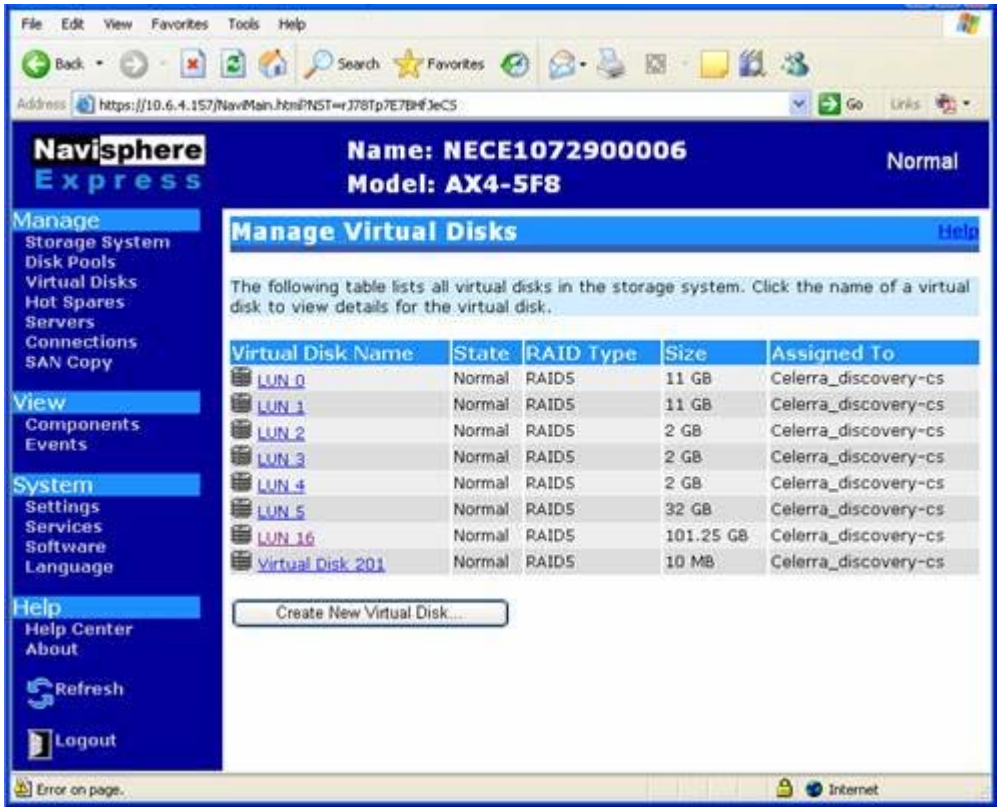

Figure 2: Manage Virtual Disks screen

Note: If you are trying to create a new virtual disk (LUN) for Automatic Volume Management (AVM) to use in a stripe with existing virtual disks, the new virtual disk must match the size of the existing virtual disks. Find the information on the existing virtual disks by going to the details page for each virtual disk by selecting **Manage** > **Virtual Disks** > <*Existing_Virtual_Disk_Name*>. Record the MB value of the existing virtual disks and use this value as the size for any new virtual disks.

5. Click **Create New Disk Pool**. (Figure 3)

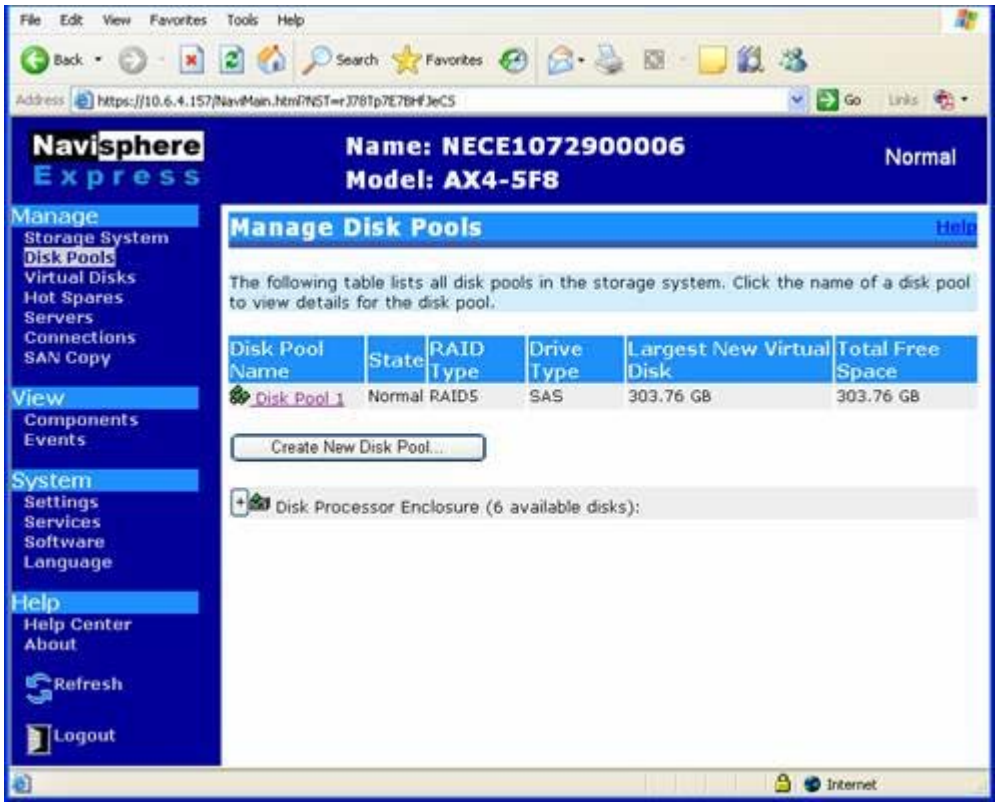

Figure 3: Manage Disk Pools screen

Note: You should create at least two disk pools. The software assigns each disk pool that you create to an SP as follows: Disk Pool 1 to SP A, Disk Pool 2 to SP B, Disk Pool 3 to SP A, Disk Pool 4 to SP B, and so on. All virtual disks that you create on a disk pool are automatically assigned to the same SP as the disk pool. If you create only one disk pool on the storage system, all virtual disks on the storage system are assigned to SP A and all data received, or sent, goes through SP A.

6. Select the RAID type for the new disk pool. (Figure 4)

- For more information, see *NAS Support Matrix* document on http://Powerlink.EMC.com

Note: RAID5 is recommended.

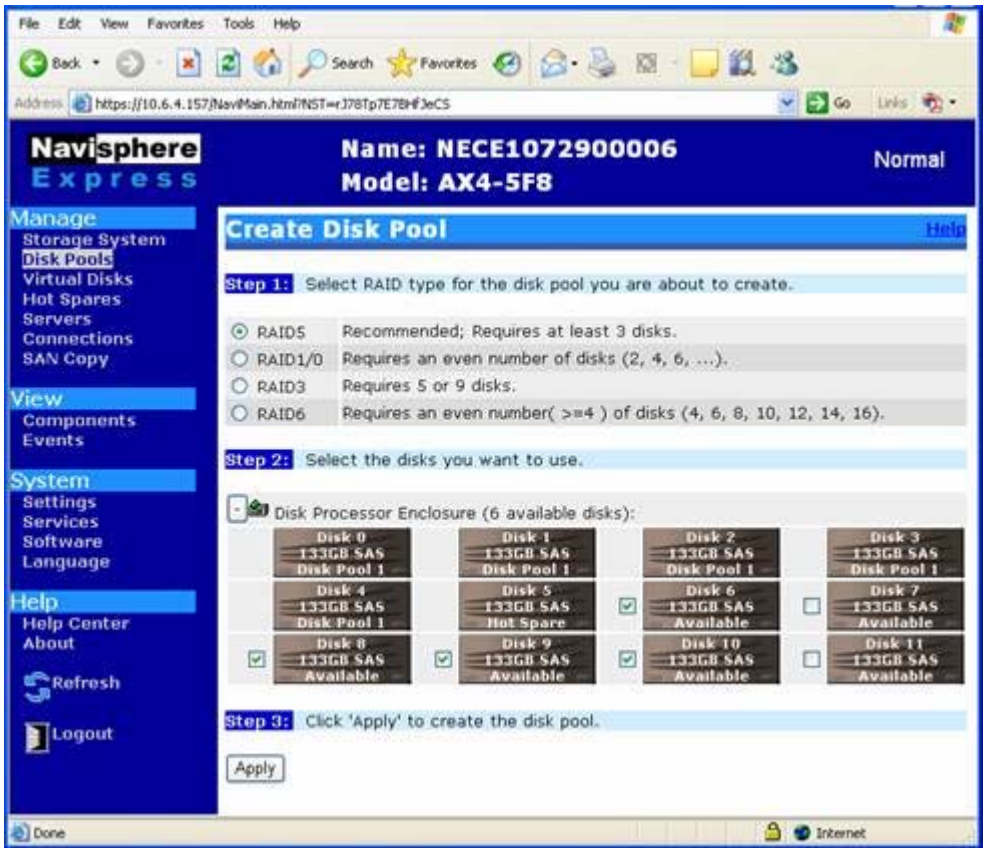

Figure 4: Create Disk Pool screen

7. Select the disks in the Disk Processor Enclosure to include in the new disk pool. (Figure 4)
8. Click **Apply**.
9. Click **Create a virtual disk that can be assigned to a server**.
10. Select the disk pool just created. (Figure 5)
11. Type the **Name** for the new virtual disk(s), and select its **Capacity** and the **Number** of Virtual Disks to create. (Figure 5)

Note: It is recommended that virtual disk capacity not be larger than 2 TB.

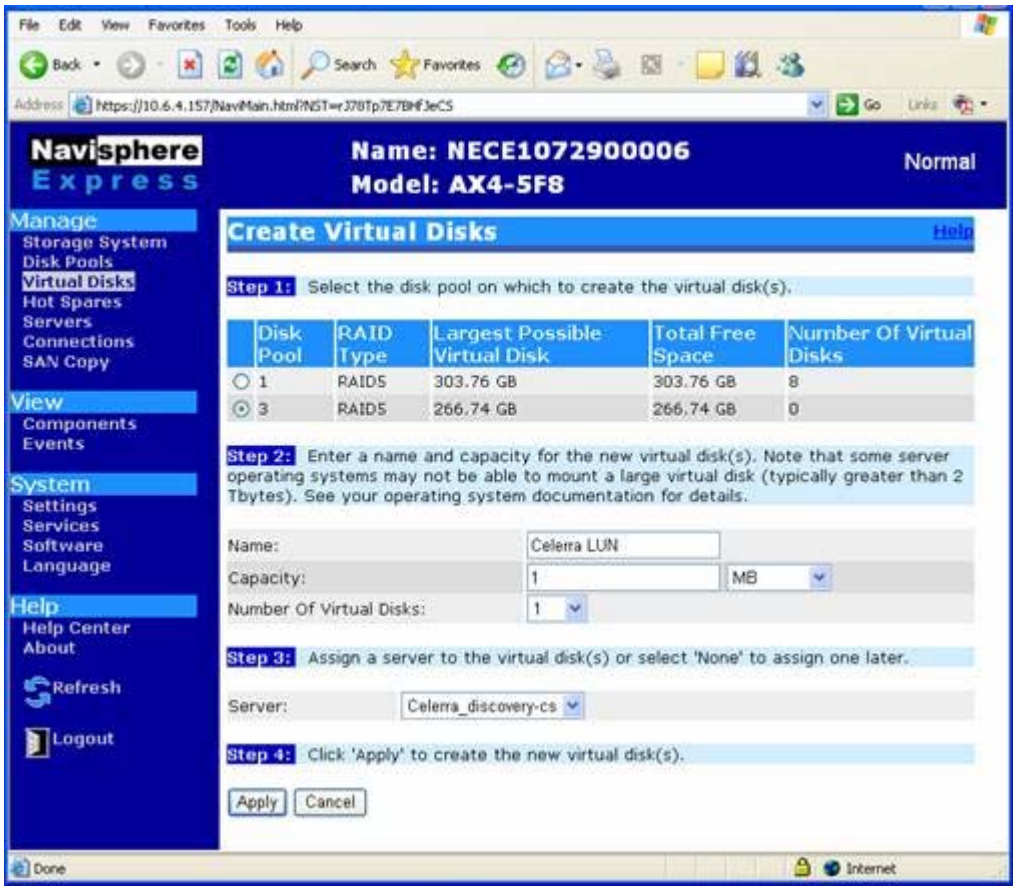

Figure 5: Create Virtual Disks

2. Assign a server to the virtual disk(s) by using the **Server** list box. (Figure 5)

Note: To send data to or receive data from a virtual disk, you must assign a server to the virtual disk.

3. Click **Apply** to create virtual disk(s).

Note: The system now creates the virtual disks. This may take some time depending on the size of the virtual disks.

4. Select **Virtual Disks** from the left navigation panel, to verify the creation of the new virtual disk(s).

5. Verify the virtual disk server assignment, by looking under **Assigned To** on the **Manage Virtual Disks** page. (Figure 6)

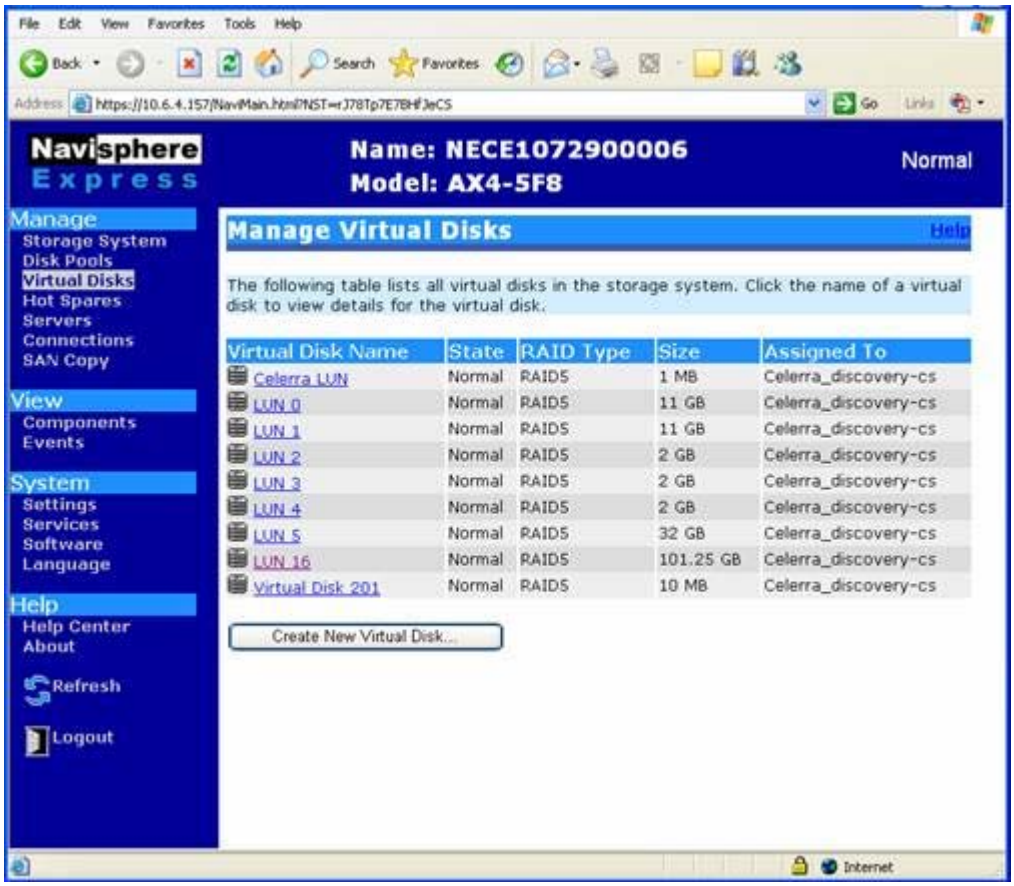

Figure 6: Verify New Virtual Disk Assignment

5. To make the new virtual disk(s) available to the Celerra system, Celerra Manager must be used. Launch Celerra Manager by opening Celerra Manager using the following URL:

   https://<control_station>

   where <control_station> is the hostname or IP address of the CS.

6. Log in to Celerra Manager and navigate to **Celerra >Storage > Systems** page, click **Rescan**. (Figure 7)

Note: The user LUNs (virtual disks) are now available for the Celerra system.

CAUTION: Do not change the host LUN (virtual disk) identifier of the Celerra LUNs (virtual disks) after rescanning. This may cause data loss or unavailability.

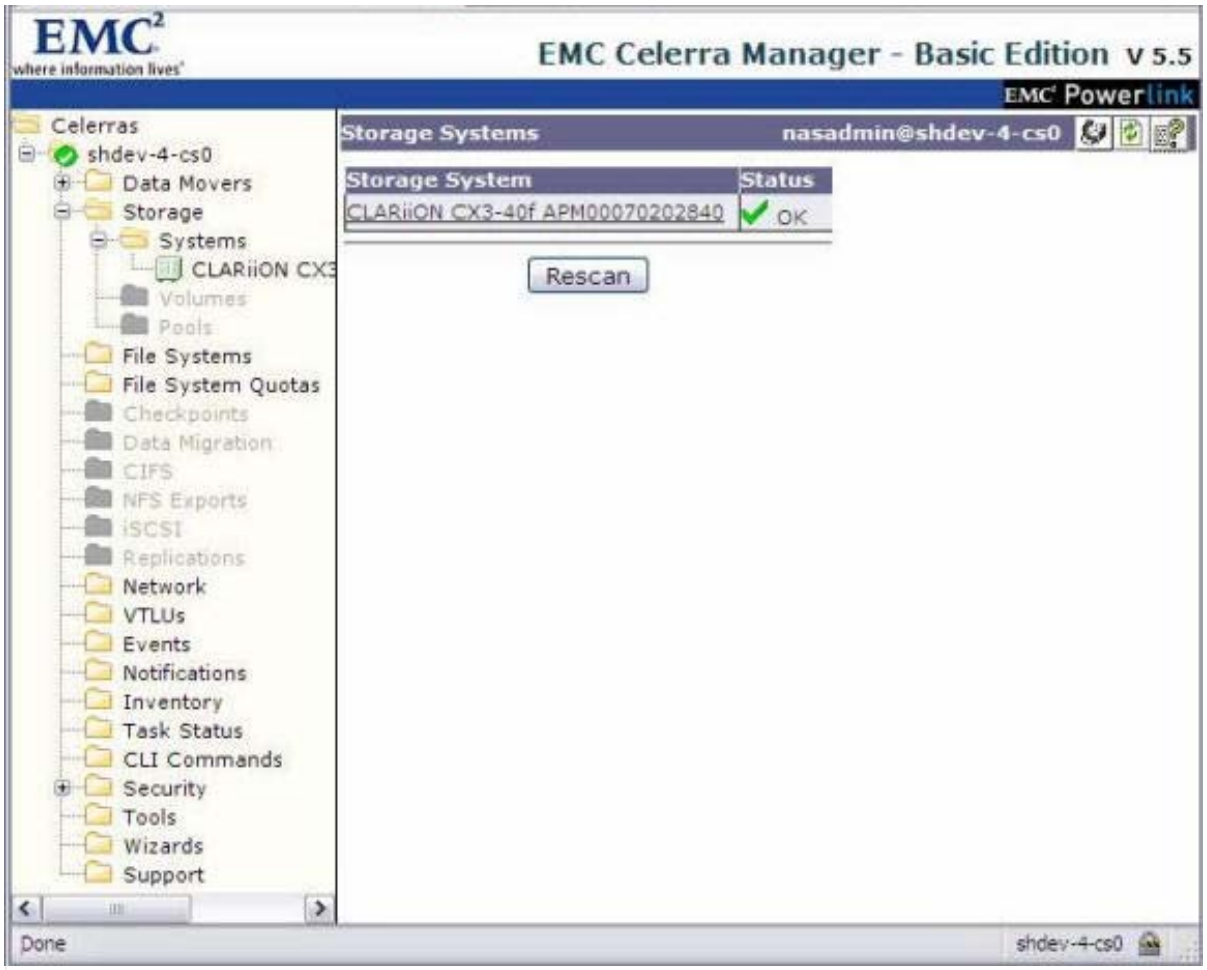

Figure 7: Rescan Storage System in Celerra Manager