

DSA E-Series E2800 - Adding expansion units

en

Installaton manual

1 Short information

This manual describes how to add NetApp E2800 expansion units to a running NetApp E2800 system without any data loss.

The description is valid for the following products:

- E2800 12-bay
 - DSA-N2E8X4-12AT
 - DSX-N1D8X4-12AT
 - DSA-N2C8X4-12AT
 - DSA-N2E8X8-12AT
 - DSX-N1D8X8-12AT
 - DSA-N2C8X8-12AT
 - DSA-N2E8XC-12AT
 - DSX-N1D8XC-12AT
 - DSA-N2C8XC-12AT
 - DSA-N2E8XG-12AT
 - DSX-N1D8XG-12AT
 - DSA-N2C8XG-12AT
- E2800 60-bay
 - DSA-N6C8X4-60AT
 - DSA-N6C8X8-60AT
 - DSA-N6C8XC-60AT
 - DSX-N6D8X4-60AT
 - DSX-N6D8X8-60AT
 - DSX-N6D8XC-60AT
 - DSX-NRCK40-INT8

2 Adding expansion units



Notice!

The following description refers to a duplex controller configuration. For a single controller configuration, the procedure is analogous.

To attach an expansion unit:

1. In the web browser, enter the management IP address of the E2800 controller.
A dialog box appears to sign in to the SANtricity program.

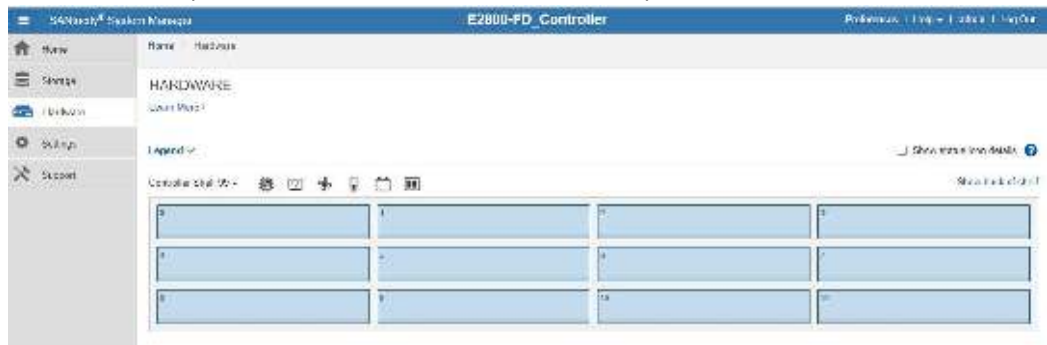
2. Enter your credentials.

The **SANtricity System Manager** window appears.

3. Click **Hardware**.

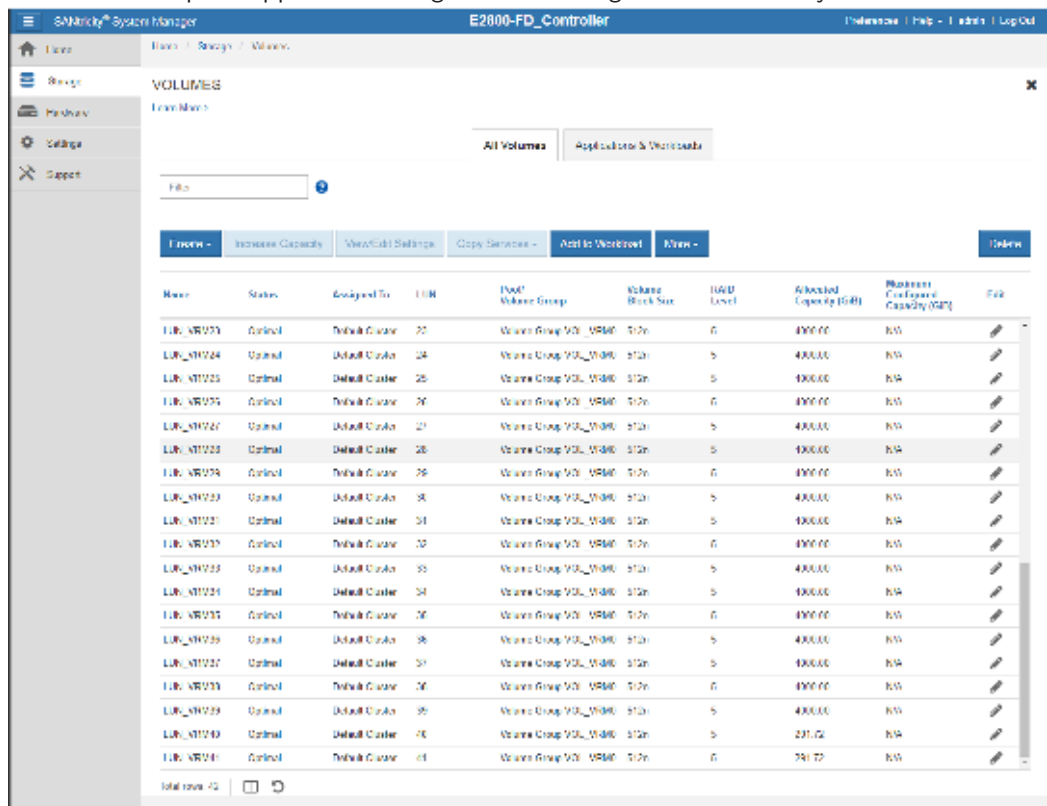
The **HARDWARE** pane of the Controller Shelf appears showing the attached expansion units.

Note: The example shows a Controller Shelf with no expansion units connected.



4. Click **Storage**.

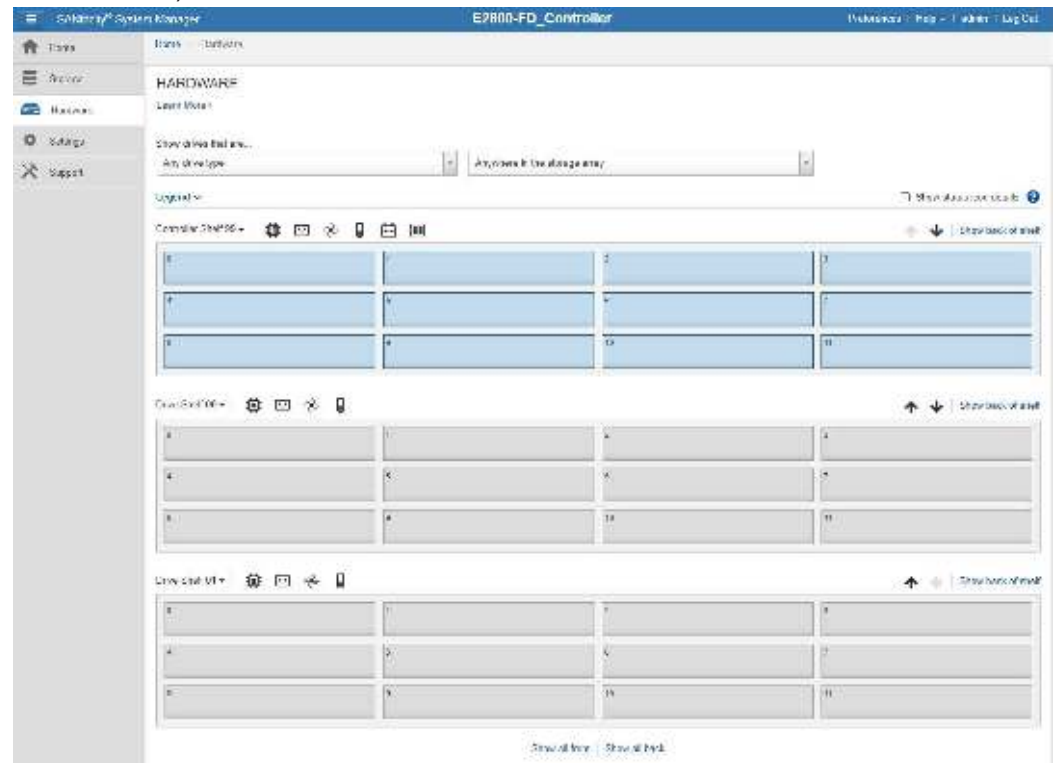
The **VOLUMES** pane appears showing the LUNs assigned in the VRM system.



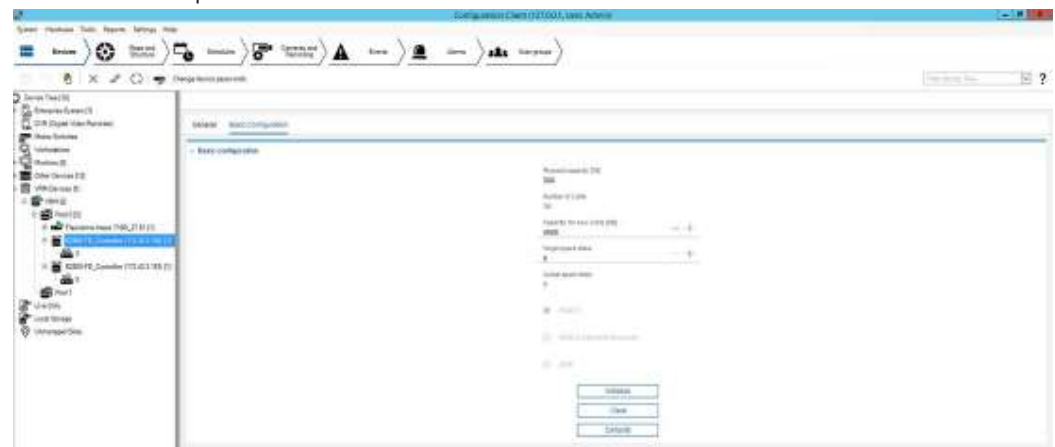
5. Connect the expansion units to the Controller Shelf.
6. In the **SANtricity System Manager** window, click **Hardware**.

The **HARDWARE** pane appears showing the expansion units you have connected.

Note: The example shows the Controller Shelf with 2 expansion units (Drive Shelf 00 and Drive Shelf 01).

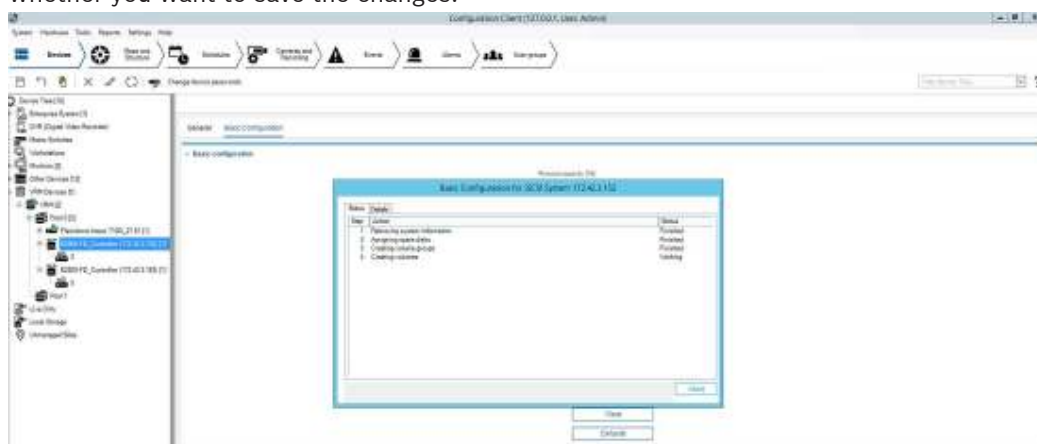


7. Open the BVMS Configuration Client program.
8. In the **Device Tree** structure:
Click **VRM Devices > VRM > Pool x > E2800 Controller**.
Click the **Basic Configuration** tab, then click **Initialize**.
The **Basic Configuration for iSCSI System** dialog box appears.
Note: The example shows Controller A selected.

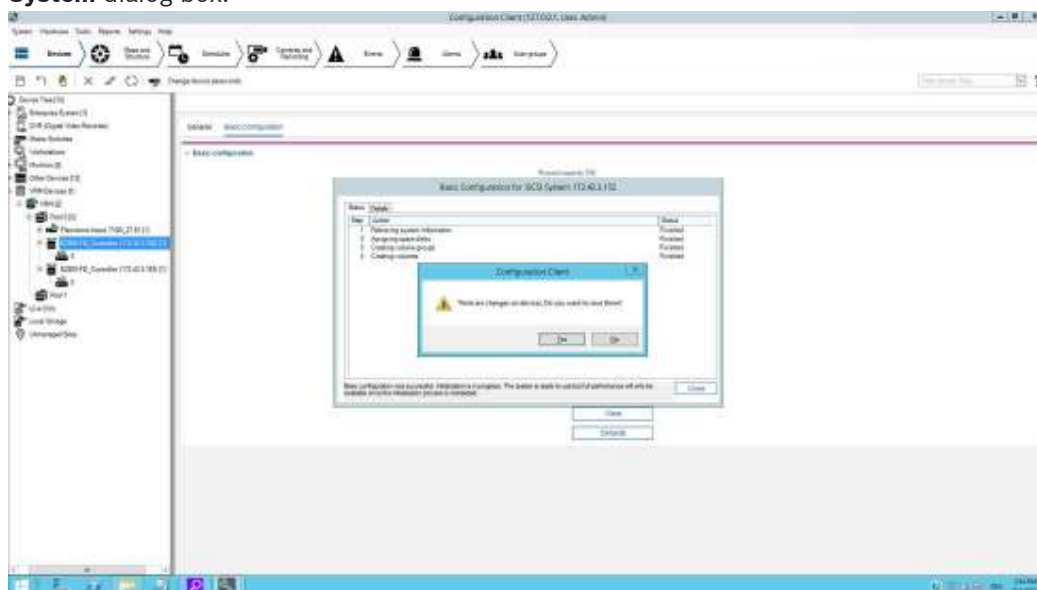


9. In the **Basic Configuration for iSCSI System** dialog box, select the **Status** tab.
Make sure that in the **Action** column the **Creating volumes** status changes from **Working** to **Finished**.

Note: As soon as the status has changed to **Finished**, a notification appears, asking whether you want to save the changes.



10. Click **Yes** to save the changes, then click **Close** to close the **Basic Configuration for iSCSI System** dialog box.

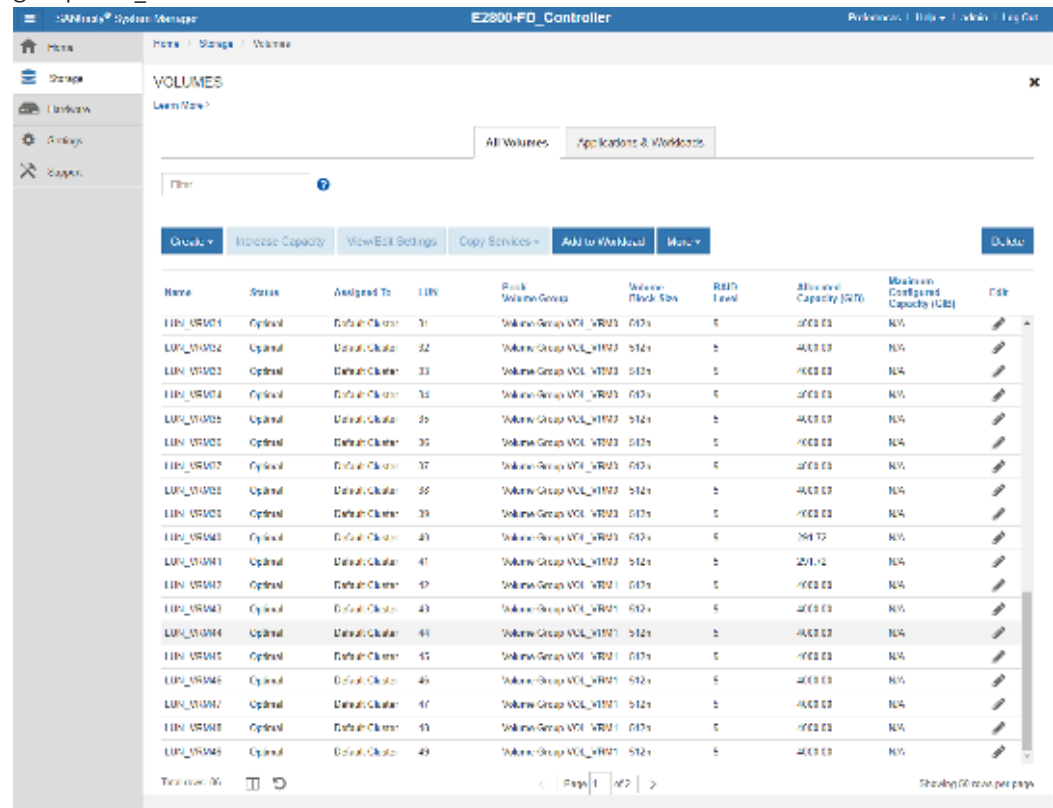


11. In the Configuration Client program, click the **Save** icon.

12. In the SANtricity System Manager window, click **Storage**.

The **VOLUME** pane appears showing the new LUNs added to new volume groups.

Note: The example shows the new LUNs (LUN_VRM 42 - LUN_VRM 49) in the new volume group VOL_VRM1.



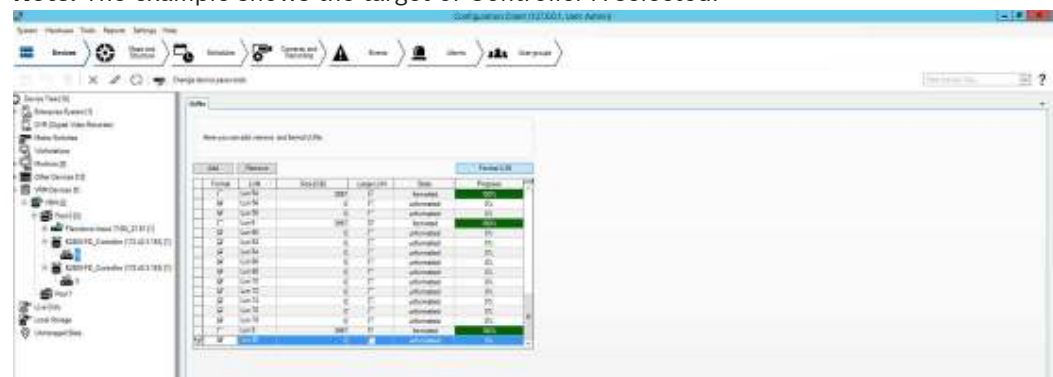
The screenshot shows the SANtricity System Manager interface for an E2800-ED Controller. The 'VOLUMES' pane is active, displaying a list of LUNs. The table below represents the data shown in the screenshot.

Name	Status	Assigned To	LUN	Block Volume Group	Volume Block Size	RAID Level	Allocated Capacity (GB)	Maximum Configured Capacity (GB)	File
LUN_VRM01	Optimal	Default Cluster	1	Volume Group VOL_VRM01	512n	5	4000.00	N/A	
LUN_VRM02	Optimal	Default Cluster	32	Volume Group VOL_VRM02	512n	5	4000.00	N/A	
LUN_VRM03	Optimal	Default Cluster	33	Volume Group VOL_VRM03	512n	5	4000.00	N/A	
LUN_VRM04	Optimal	Default Cluster	34	Volume Group VOL_VRM04	512n	5	4000.00	N/A	
LUN_VRM05	Optimal	Default Cluster	35	Volume Group VOL_VRM05	512n	5	4000.00	N/A	
LUN_VRM06	Optimal	Default Cluster	36	Volume Group VOL_VRM06	512n	5	4000.00	N/A	
LUN_VRM07	Optimal	Default Cluster	37	Volume Group VOL_VRM07	512n	5	4000.00	N/A	
LUN_VRM08	Optimal	Default Cluster	38	Volume Group VOL_VRM08	512n	5	4000.00	N/A	
LUN_VRM09	Optimal	Default Cluster	39	Volume Group VOL_VRM09	512n	5	4000.00	N/A	
LUN_VRM10	Optimal	Default Cluster	40	Volume Group VOL_VRM10	512n	5	4000.00	N/A	
LUN_VRM11	Optimal	Default Cluster	41	Volume Group VOL_VRM11	512n	5	2011.00	N/A	
LUN_VRM12	Optimal	Default Cluster	42	Volume Group VOL_VRM12	512n	5	4000.00	N/A	
LUN_VRM13	Optimal	Default Cluster	43	Volume Group VOL_VRM13	512n	5	4000.00	N/A	
LUN_VRM14	Optimal	Default Cluster	44	Volume Group VOL_VRM14	512n	5	4000.00	N/A	
LUN_VRM15	Optimal	Default Cluster	45	Volume Group VOL_VRM15	512n	5	4000.00	N/A	
LUN_VRM16	Optimal	Default Cluster	46	Volume Group VOL_VRM16	512n	5	4000.00	N/A	
LUN_VRM17	Optimal	Default Cluster	47	Volume Group VOL_VRM17	512n	5	4000.00	N/A	
LUN_VRM18	Optimal	Default Cluster	48	Volume Group VOL_VRM18	512n	5	4000.00	N/A	
LUN_VRM19	Optimal	Default Cluster	49	Volume Group VOL_VRM19	512n	5	4000.00	N/A	

13. In the **Device Tree** structure of the Configuration Client program, click the E2800 target.

The LUN overview appears.

Note: The example shows the target of Controller A selected.



The screenshot shows the Configuration Client interface. The 'Device Tree' on the left shows the selected E2800 target. The main pane displays the 'LUN Overview' table.

LUN	Size (GB)	Format	Status	Format LUN
LUN 01	2000	512n	Formatted	☒
LUN 02	2000	512n	Formatted	☒
LUN 03	2000	512n	Formatted	☒
LUN 04	2000	512n	Formatted	☒
LUN 05	2000	512n	Formatted	☒
LUN 06	2000	512n	Formatted	☒
LUN 07	2000	512n	Formatted	☒
LUN 08	2000	512n	Formatted	☒
LUN 09	2000	512n	Formatted	☒
LUN 10	2000	512n	Formatted	☒
LUN 11	2000	512n	Formatted	☒
LUN 12	2000	512n	Formatted	☒
LUN 13	2000	512n	Formatted	☒
LUN 14	2000	512n	Formatted	☒
LUN 15	2000	512n	Formatted	☒
LUN 16	2000	512n	Formatted	☒
LUN 17	2000	512n	Formatted	☒
LUN 18	2000	512n	Formatted	☒
LUN 19	2000	512n	Formatted	☒
LUN 20	2000	512n	Formatted	☒
LUN 21	2000	512n	Formatted	☒
LUN 22	2000	512n	Formatted	☒
LUN 23	2000	512n	Formatted	☒
LUN 24	2000	512n	Formatted	☒
LUN 25	2000	512n	Formatted	☒
LUN 26	2000	512n	Formatted	☒
LUN 27	2000	512n	Formatted	☒
LUN 28	2000	512n	Formatted	☒
LUN 29	2000	512n	Formatted	☒
LUN 30	2000	512n	Formatted	☒
LUN 31	2000	512n	Formatted	☒
LUN 32	2000	512n	Formatted	☒
LUN 33	2000	512n	Formatted	☒
LUN 34	2000	512n	Formatted	☒
LUN 35	2000	512n	Formatted	☒
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LUN 37	2000	512n	Formatted	☒
LUN 38	2000	512n	Formatted	☒
LUN 39	2000	512n	Formatted	☒
LUN 40	2000	512n	Formatted	☒
LUN 41	2000	512n	Formatted	☒
LUN 42	2000	512n	Formatted	☒
LUN 43	2000	512n	Formatted	☒
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LUN 94	2000	512n	Formatted	☒
LUN 95	2000	512n	Formatted	☒
LUN 96	2000	512n	Formatted	☒
LUN 97	2000	512n	Formatted	☒
LUN 98	2000	512n	Formatted	☒
LUN 99	2000	512n	Formatted	☒
LUN 100	2000	512n	Formatted	☒

14. In the **Format** column, select the check boxes of all unformatted LUNs, then click **Format LUN**.
15. Make sure all LUNs have the status **formatted**.
16. Format Controller B in the same way.

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