



BOSCH

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.

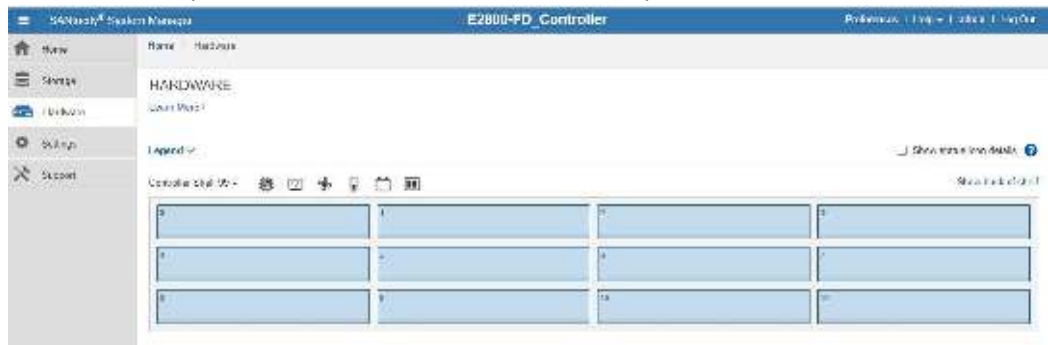
2. Enter your credentials.

The **SANtricity System Manager** window appears.

3. Click **Hardware**.

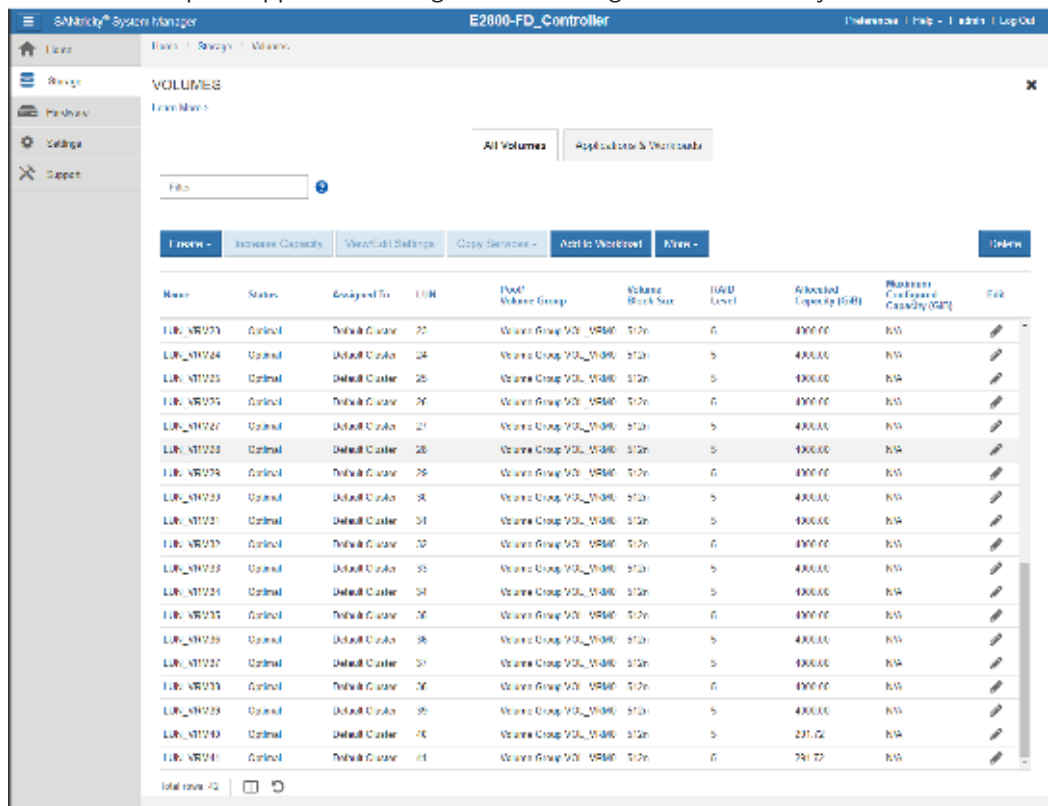
The **HARDWARE** pane of the Controller Shelf appears showing the attached expansion units.

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



4. Click **Storage**.

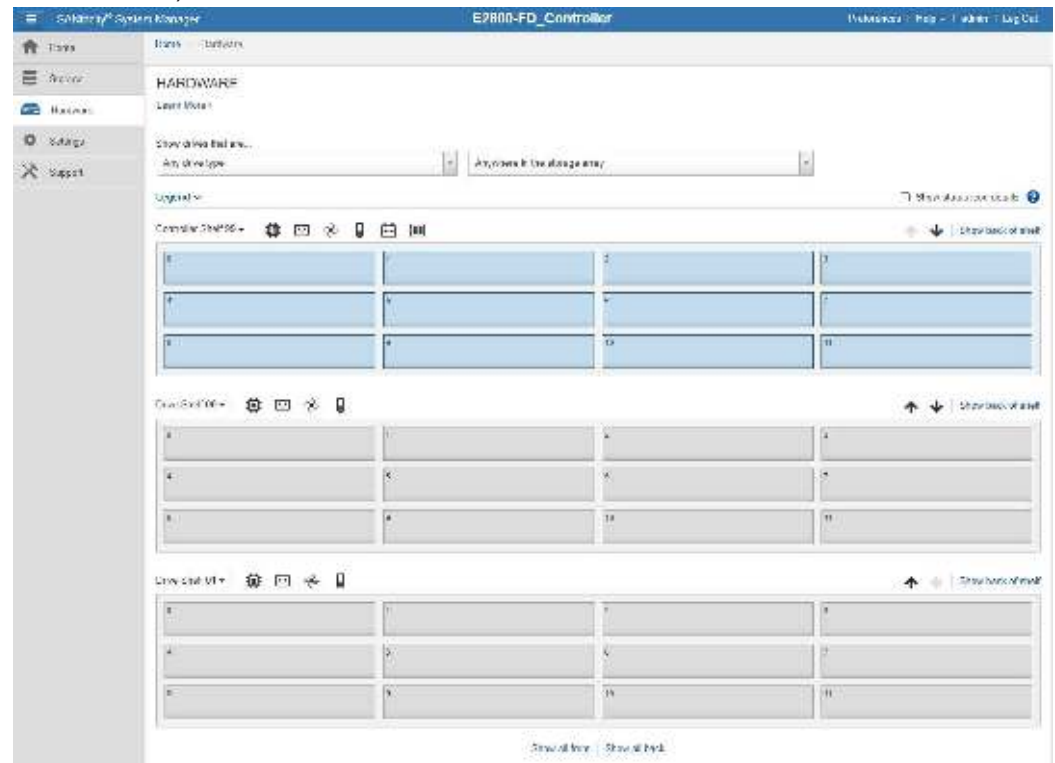
The **VOLUMES** pane appears showing the LUNs assigned in the VRM system.



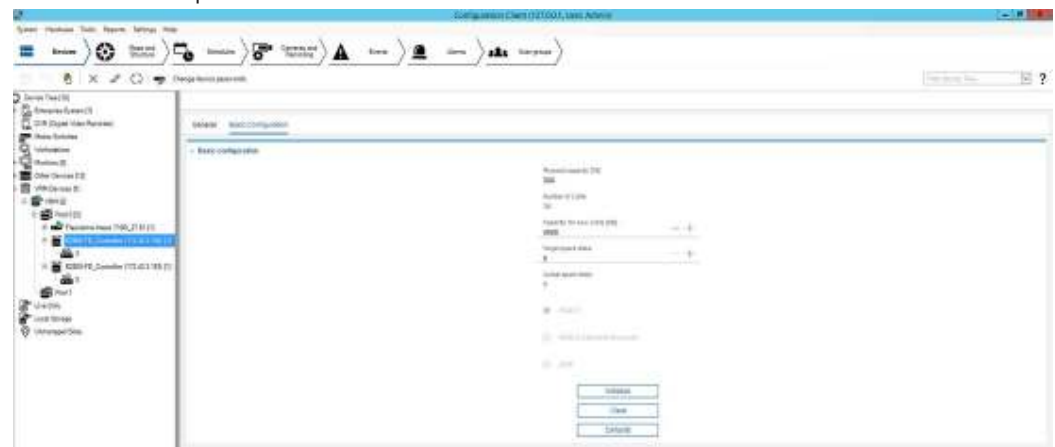
5. Connect the expansion units to the Controller Shelf.
6. In the **SANtricity System Manager** window, click **Hardware**.

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).

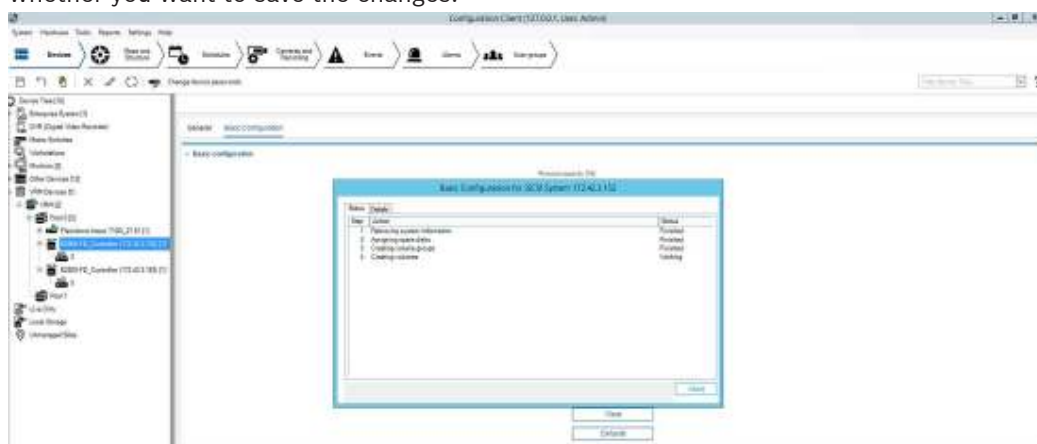


7. Open the BVMS Configuration Client program.
8. In the **Device Tree** structure:
Click **VRM Devices > VRM > Pool x > E2800 Controller**.
Click the **Basic Configuration** tab, then click **Initialize**.
The **Basic Configuration for iSCSI System** dialog box appears.
Note: The example shows Controller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

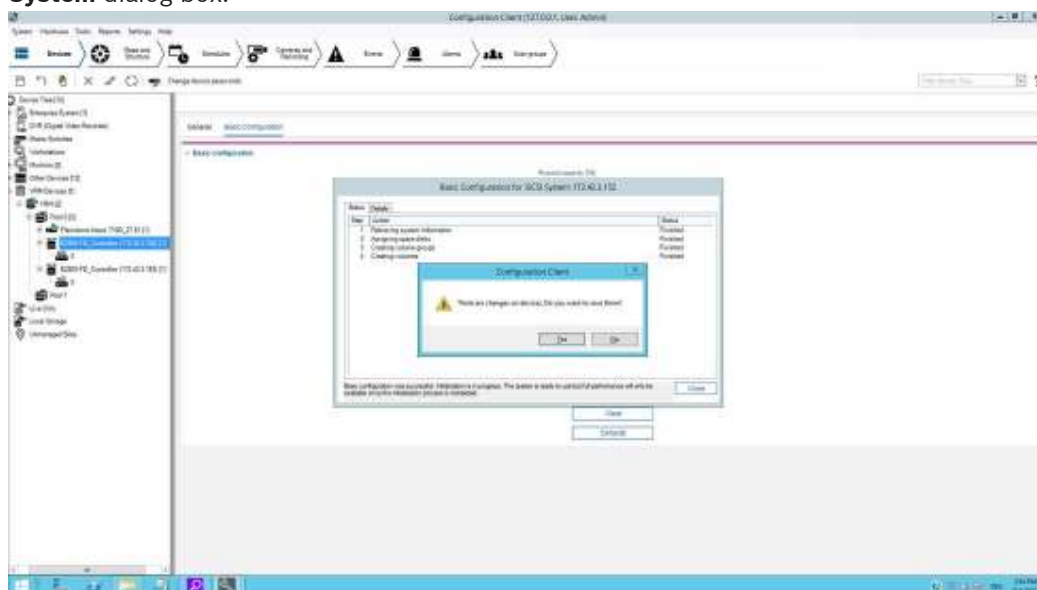


9. In the **Basic Configuration for iSCSI System** dialog box, select the **Status** tab.
Make sure that in the **Action** column the **Creating volumes** status changes from **Working** to **Finished**.

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



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

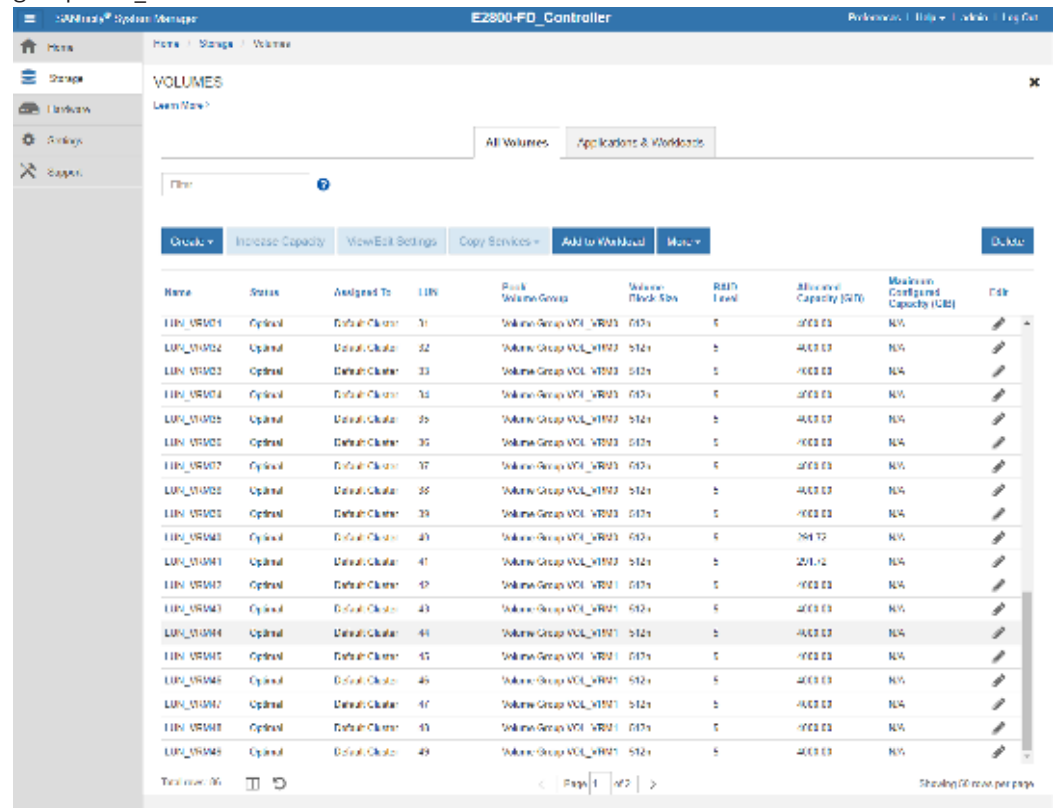


- In the Configuration Client program, click the **Save** icon.

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.



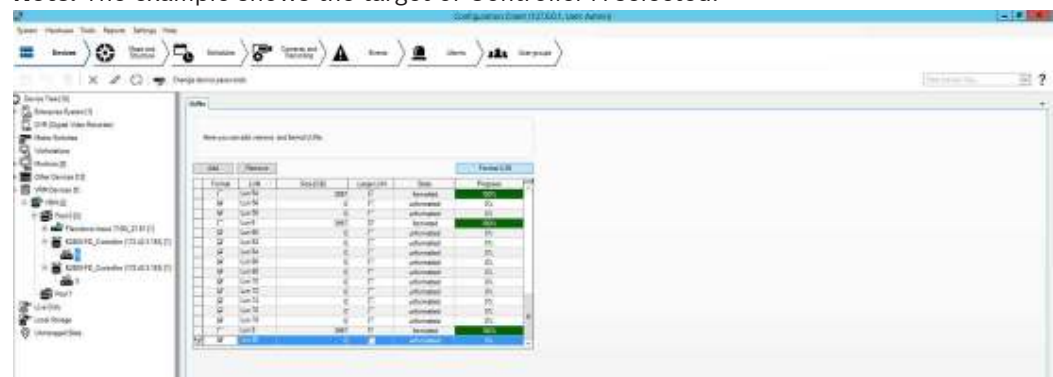
The screenshot shows the SANtricity System Manager interface for an E2800-ED Controller. The 'VOLUMES' pane is active, displaying a list of LUNs. The table below represents the data shown in the screenshot.

Name	Status	Assigned To	LUN	Block Volume Group	Volume Block Size	RAID Level	Effective 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	3941.72	N/A	
LUN_VRM11	Optimal	Default Cluster	41	Volume Group VOL_VRM11	512n	5	2911.12	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 with the 'Device Tree' pane open. The 'LUN Overview' table is displayed, showing details for various LUNs. The table below represents the data shown in the screenshot.

LUN	Size (GB)	Format	Status	Format LUN
LUN 01	2048	512	Formatted	01
LUN 02	2048	512	Formatted	02
LUN 03	2048	512	Formatted	03
LUN 04	2048	512	Formatted	04
LUN 05	2048	512	Formatted	05
LUN 06	2048	512	Formatted	06
LUN 07	2048	512	Formatted	07
LUN 08	2048	512	Formatted	08
LUN 09	2048	512	Formatted	09
LUN 10	2048	512	Formatted	10
LUN 11	2048	512	Formatted	11
LUN 12	2048	512	Formatted	12
LUN 13	2048	512	Formatted	13
LUN 14	2048	512	Formatted	14
LUN 15	2048	512	Formatted	15
LUN 16	2048	512	Formatted	16
LUN 17	2048	512	Formatted	17
LUN 18	2048	512	Formatted	18
LUN 19	2048	512	Formatted	19
LUN 20	2048	512	Formatted	20
LUN 21	2048	512	Formatted	21
LUN 22	2048	512	Formatted	22
LUN 23	2048	512	Formatted	23
LUN 24	2048	512	Formatted	24
LUN 25	2048	512	Formatted	25
LUN 26	2048	512	Formatted	26
LUN 27	2048	512	Formatted	27
LUN 28	2048	512	Formatted	28
LUN 29	2048	512	Formatted	29
LUN 30	2048	512	Formatted	30
LUN 31	2048	512	Formatted	31
LUN 32	2048	512	Formatted	32
LUN 33	2048	512	Formatted	33
LUN 34	2048	512	Formatted	34
LUN 35	2048	512	Formatted	35
LUN 36	2048	512	Formatted	36
LUN 37	2048	512	Formatted	37
LUN 38	2048	512	Formatted	38
LUN 39	2048	512	Formatted	39
LUN 40	2048	512	Formatted	40
LUN 41	2048	512	Formatted	41
LUN 42	2048	512	Formatted	42
LUN 43	2048	512	Formatted	43
LUN 44	2048	512	Formatted	44
LUN 45	2048	512	Formatted	45
LUN 46	2048	512	Formatted	46
LUN 47	2048	512	Formatted	47
LUN 48	2048	512	Formatted	48
LUN 49	2048	512	Formatted	49

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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