

DSA E-series E2800 | E4000* - Adding expansion units

*List of applicable products inside document

Table of contents

1	Introduction	4
1.1	Applicable products	4
2	Connection	5

1 Introduction

This manual describes how to add DSA E-Series E2800/E4000 expansion units to a running NetApp E-series E2800/E4000 system without data loss.

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1.1 Applicable products

The description is valid for the following products:

- DSA E-Series 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
- DSA E-Series E2800 60-bay
 - DSA-N6C8X4-60AT
 - DSA-N6C8X8-60AT
 - DSA-N6C8XC-60AT
 - DSX-N6D8X4-60AT
 - DSX-N6D8X8-60AT
 - DSX-N6D8XC-60AT
 - DSX-NRCK40-INT8
- DSA E-Series E4000 12-bay
 - DSA-N2E4X4-12AT
 - DSA-N2C4X4-12AT
 - DSA-N2E4XA-12AT
 - DSA-N2C4XA-12AT
 - DSX-N1D4XA-12AT
- DSA E-Series E4000 60-bay
 - DSA-N6C4XA-60AT
 - DSX-N6D4XA-60AT

2 Connection



Notice!

Notice! The following procedure uses the DSA E-Series E2800 duplex controller configuration as an example. The same procedure applies to the other DSA E-Series models. 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**.

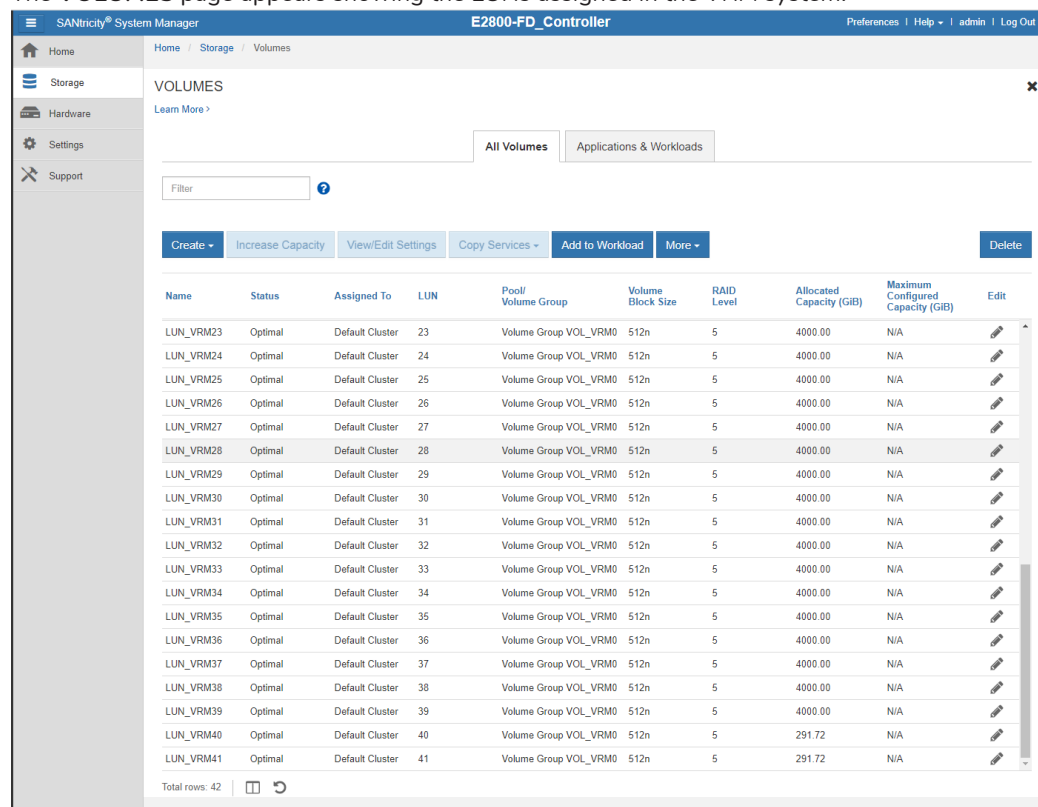
The **HARDWARE** page of the Controller Shelf appears showing the attached expansion units.

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



4. Click **Storage**.

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

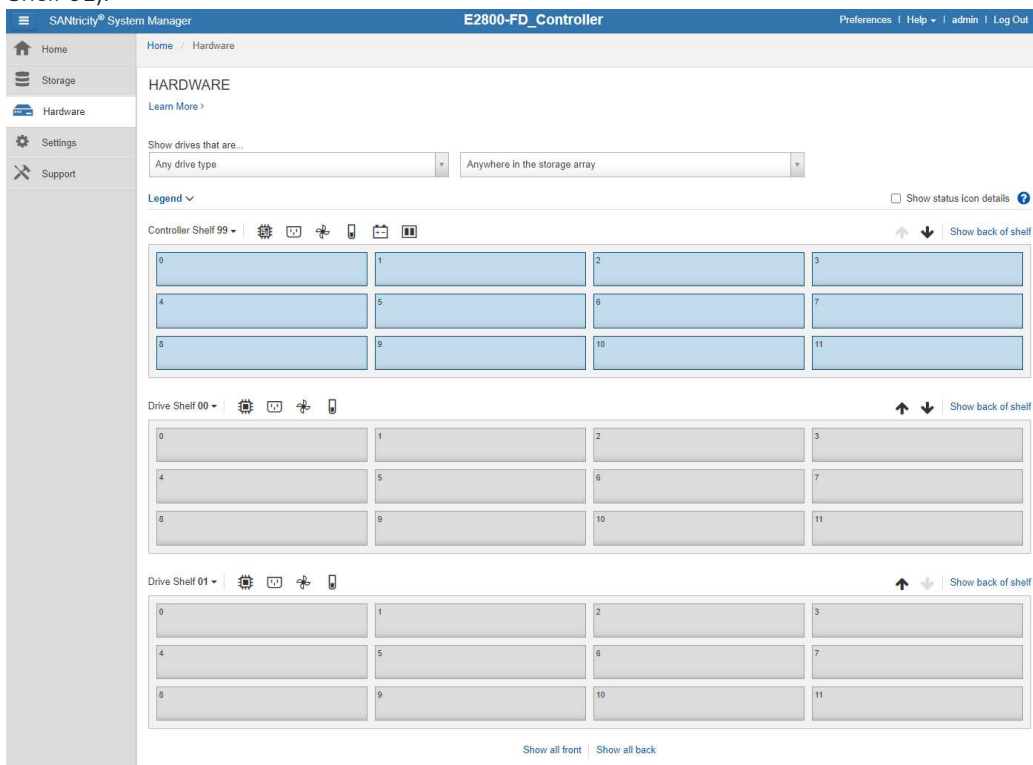


5. Connect the expansion units to the Controller Shelf.

- In the **SANtricity System Manager** window, click **Hardware**.

The **HARDWARE** page 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).

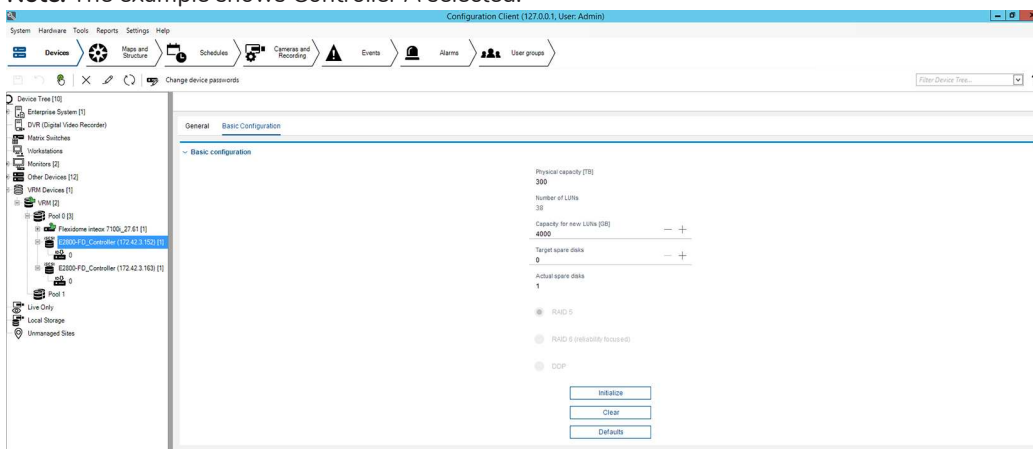


- Open the BVMS Configuration Client program.
- In the **Device Tree** structure:
Click **VRM Devices > VRM > Pool x > E2800 Controller**.

Click the **Basic Configuration** tab, then click **Initialize**.

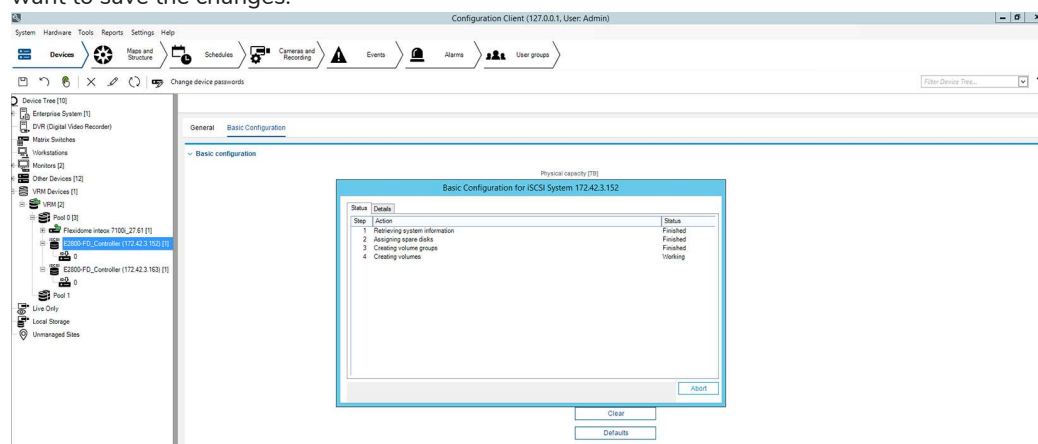
The **Basic Configuration for iSCSI System** dialog box appears.

Note: The example shows Controller A selected.

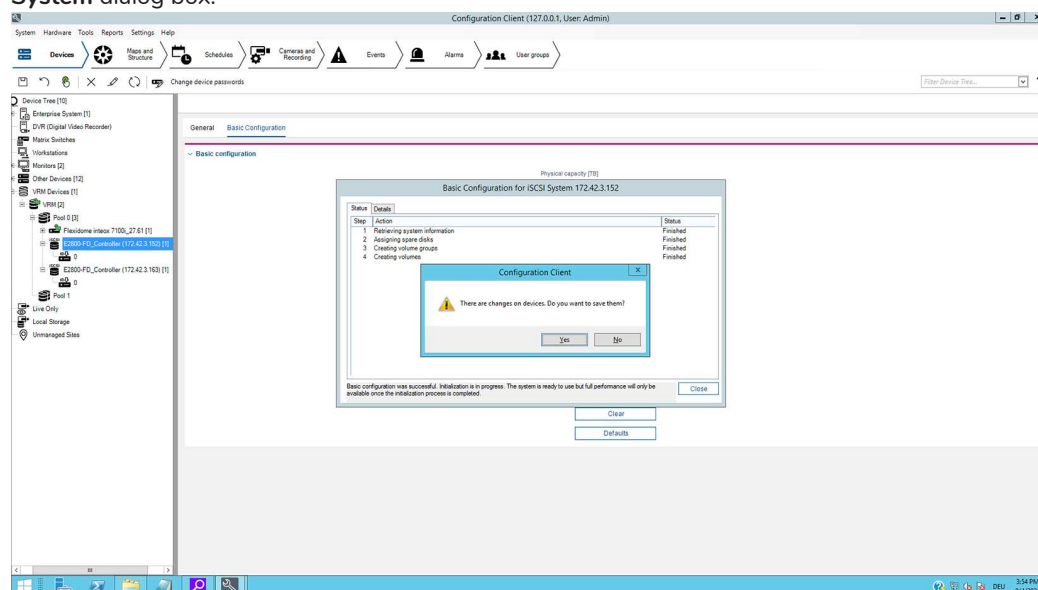


- In the **Basic Configuration for iSCSI System** dialog box, select the **Status** tab.
Make sure that in the **Action** column the **Creating volumes** status changes from **Working** to **Finished**.

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** page 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.

Name	Status	Assigned To	LUN	Pool/Volume Group	Volume Block Size	RAID Level	Allocated Capacity (GiB)	Maximum Configured Capacity (GiB)	Edit
LUN_VRM31	Optimal	Default Cluster	31	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM32	Optimal	Default Cluster	32	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM33	Optimal	Default Cluster	33	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM34	Optimal	Default Cluster	34	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM35	Optimal	Default Cluster	35	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM36	Optimal	Default Cluster	36	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM37	Optimal	Default Cluster	37	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM38	Optimal	Default Cluster	38	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM39	Optimal	Default Cluster	39	Volume Group VOL_VRM0	512n	5	4000.00	N/A	
LUN_VRM40	Optimal	Default Cluster	40	Volume Group VOL_VRM1	512n	5	291.72	N/A	
LUN_VRM41	Optimal	Default Cluster	41	Volume Group VOL_VRM1	512n	5	291.72	N/A	
LUN_VRM42	Optimal	Default Cluster	42	Volume Group VOL_VRM1	512n	5	4000.00	N/A	
LUN_VRM43	Optimal	Default Cluster	43	Volume Group VOL_VRM1	512n	5	4000.00	N/A	
LUN_VRM44	Optimal	Default Cluster	44	Volume Group VOL_VRM1	512n	5	4000.00	N/A	
LUN_VRM45	Optimal	Default Cluster	45	Volume Group VOL_VRM1	512n	5	4000.00	N/A	
LUN_VRM46	Optimal	Default Cluster	46	Volume Group VOL_VRM1	512n	5	4000.00	N/A	
LUN_VRM47	Optimal	Default Cluster	47	Volume Group VOL_VRM1	512n	5	4000.00	N/A	
LUN_VRM48	Optimal	Default Cluster	48	Volume Group VOL_VRM1	512n	5	4000.00	N/A	
LUN_VRM49	Optimal	Default Cluster	49	Volume Group VOL_VRM1	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.

Format	LUN	Size (GB)	Large LUN	State	Progress
☒	Lun 54	3387	☒	formatted	100%
☒	Lun 56	0	☒	formatted	0%
☒	Lun 58	0	☒	formatted	0%
☒	Lun 60	3387	☒	formatted	100%
☒	Lun 62	0	☒	unformatted	0%
☒	Lun 64	0	☒	unformatted	0%
☒	Lun 66	0	☒	unformatted	0%
☒	Lun 68	0	☒	unformatted	0%
☒	Lun 70	0	☒	unformatted	0%
☒	Lun 72	0	☒	unformatted	0%
☒	Lun 74	0	☒	unformatted	0%
☒	Lun 76	0	☒	unformatted	0%
☒	Lun 78	0	☒	unformatted	0%
☒	Lun 80	3387	☒	formatted	100%
☒	Lun 82	0	☒	unformatted	0%

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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