

On the vSphere:

**Increase Datastore Capacity**

**Extent Device**  
Select a LUN to create a datastore or expand the current one

**Extent Device**  
Current Disk Layout  
Extent Size  
Ready to Complete

Name, Identifier, Path ID, LUN, Capacity, Expandable or VMFS Label c...  Clear

Name	Path ID	LUN	Capacity	Expandable
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Help < Back Next > Cancel

# Directly on the ESX Host

The screenshot shows the vSphere Client interface for an ESX host named 'esxprod.ealab.psp'. The 'Configuration' tab is active, displaying the 'Datstores' section. A table lists several datstores, with '17g8' selected. Below the table, the 'Datstore Details' for '17g8' are shown, including its location, capacity, and usage. The 'Recent Tasks' pane at the bottom shows three completed tasks: 'Refresh host storage system', 'Rescan VMFS', and 'Rescan all HBA'.

**esxprod.ealab.psp - vSphere Client**

File Edit View Inventory Administration Plug-ins Help

Home Inventory

esxprod.ealab.psp

esx1.ea.psp VMware ESX, 4.0.0, 261974

Summary Virtual Machines Resource Allocation Performance Configuration Users & Groups Events Permissions

**Hardware**

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- Processors
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**Software**

- Licensed Features
- Time Configuration
- DNS and Routing
- Virtual Machine Startup/Shutdown
- Virtual Machine Swapfile Location
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- System Resource Allocation
- Advanced Settings

**View:** Datstores Devices

**Datstores** Refresh Delete Add Storage...

Identification	Device	Capacity	Free	Type	Last Update
17g6	IBM Fibre Channel...	16.75 GB	16.37 GB	vmfs3	3/4/2011 8:13:16 AM
17g7	IBM Fibre Channel...	16.75 GB	16.37 GB	vmfs3	3/4/2011 8:13:16 AM
17g8	IBM Fibre Channel...	16.75 GB	16.37 GB	vmfs3	3/4/2011 8:13:16 AM
18G-18fev	IBM Fibre Channel...	17.75 GB	17.37 GB	vmfs3	3/4/2011 8:13:16 AM
18G-3	IBM Fibre Channel...	17.75 GB	17.37 GB	vmfs3	3/4/2011 8:13:16 AM
18gblabla	IBM Fibre Channel...	17.75 GB	17.37 GB	vmfs3	3/4/2011 8:13:16 AM
18GIG-1 (1)	IBM Fibre Channel...	17.75 GB	17.37 GB	vmfs3	3/4/2011 8:13:16 AM

**Datstore Details** Properties...

**17g8** 16.75 GB Capacity

Location: /vmfs/volumes/4d6e5ef0-41...

385.00 MB Used  
16.37 GB Free

**Path Selection**

Fixed (VMware)

**Properties**

Volume Label: 17g8  
Datstore Name: 17g8

**Extents**

IBM Fibre Channel Disk (naa... 17.00 GB  
Total Formatted Capacity 16.75 GB

**Paths**

Total: 2  
Broken: 0  
Disabled: 0

**Formatting**

File System: VMFS 3.33  
Block Size: 1 MB

**Recent Tasks**

Name	Target	Status	Details	Initiated by	Requested Start Ti...	Start Time	Completed Time
Refresh host storage system	esxprod.ealab...	Completed		vpuser	3/4/2011 8:13:14 AM	3/4/2011 8:13:14 AM	3/4/2011 8:13:16 AM
Rescan VMFS	esxprod.ealab...	Completed		vpuser	3/4/2011 8:12:57 AM	3/4/2011 8:12:57 AM	3/4/2011 8:12:59 AM
Rescan all HBA	esxprod.ealab...	Completed		vpuser	3/4/2011 8:12:50 AM	3/4/2011 8:12:50 AM	3/4/2011 8:12:54 AM

Tasks root

**Volume Properties**

General

Datastore Name: 17g8

Rename

Total Capacity: 16.75 GB

Increase...

Format

File System: VMFS 3.33

Maximum File Size: 256 GB

Block Size: 1 MB

**Extents**

A VMFS file system can span multiple hard disk partitions, or extents, to create a single logical volume.

Extent	Capacity
IBM Fibre Channel Disk (naa.600507630affc...)	17.00 GB

**Extent Device**

The extent selected on the left resides on the LUN or physical disk described below.

Device	Capacity
IBM Fibre Channel Disk (naa.60...)	50.00 GB

  

Primary Partitions	Capacity
1. VMFS	17.00 GB

Refresh

Manage Paths...

Close

Help

Increase Datastore Capacity

Extent Device

Select a LUN to create a datastore or expand the current one

Extent Device

Current Disk Layout  
Extent Size  
Ready to Complete

Name, Identifier, Path ID, LUN, Capacity, Expandable or VMFS Label c... Clear

	Path ID	LUN	Capacity	Expe
isk (naa.6005076309ffc5650000000000000003)	vmhba0:CO:T0:L6	6	500.00 GB	No
isk (naa.6005076309ffc56500000000000000100)	vmhba0:CO:T0:L1	1	100.00 GB	No
isk (naa.600507630affc1f300000000000000016)	vmhba0:CO:T1:L15	15	19.00 GB	No
isk (naa.600507630affc1f30000000000000002f)	vmhba0:CO:T1:L16	16	19.00 GB	No
isk (naa.600507630affc1f300000000000000030)	vmhba0:CO:T1:L17	17	19.00 GB	No
isk (naa.600507630affc1f300000000000000031)	vmhba0:CO:T1:L18	18	19.00 GB	No
isk (naa.600507630affc1f300000000000000032)	vmhba0:CO:T1:L19	19	19.00 GB	No
isk (naa.600507630affc1f300000000000000033)	vmhba0:CO:T1:L20	20	19.00 GB	No
isk (naa.600507630affc1f300000000000000034)	vmhba0:CO:T1:L21	21	19.00 GB	No
isk (naa.600507630affc1f300000000000000035)	vmhba0:CO:T1:L22	22	19.00 GB	No
isk (naa.600507630affc1f300000000000000036)	vmhba0:CO:T1:L23	23	19.00 GB	No
isk (naa.600507630affc1f300000000000000037)	vmhba0:CO:T1:L24	24	19.00 GB	No
isk (naa.600507630affc1f30000000000000003a)	vmhba0:CO:T1:L27	27	17.00 GB	No
isk (naa.600507630affc1f30000000000000003d)	vmhba0:CO:T1:L30	30	17.00 GB	No
isk (naa.600507630affc1f30000000000000003e)	vmhba0:CO:T1:L31	31	17.00 GB	No
isk (naa.600507630affc1f300000000000000040)	vmhba0:CO:T1:L33	33	50.00 GB	Yes

The datastore already occupies one or more extents on this device. Selecting one of these extents on the device will expand it in the datastore. Selecting anything else on the device will add a new extent to the datastore.

Help

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Cancel

**Current Disk Layout**

You can either expand an existing extent or partition and format a single block of free space into a new extent.

[Extent Device](#)

**Current Disk Layout**

Extent Size  
Ready to Complete

Review the current disk layout:

Device	Capacity	Available	LUN
IBM Fibre Channel Disk (naa.600507630a...)	50.00 GB	33.00 GB	33
Location /vmfs/devices/disks/naa.600507630affc1f30000000000000040			
Primary Partitions		Capacity	
<input checked="" type="checkbox"/> VMFS (IBM Fibre Channel Disk (naa.6005076...)	17.00 GB		
<input checked="" type="checkbox"/> Free space	33.00 GB		

There is only one layout configuration available. Use the Next button to proceed with the other wizard pages.

**'Free space' will be used to expand the VMFS volume**

Help

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Cancel

**Increase Datastore Capacity**

**Extent Size**

Specify how much capacity should be allocated to the expanded extent.

- [Extent Device](#)
- [Current Disk Layout](#)
- Extent Size**
- [Ready to Complete](#)

Capacity

Maximize capacity  GB

[Help](#) [< Back](#) [Next >](#) [Cancel](#)

**Ready to Complete**

Verify that the selected extent device is configured appropriately

- [Extent Device](#)
- [Current Disk Layout](#)
- [Extent Size](#)
- Ready to Complete**

Review the proposed disk layout for the new extent device:

Device	Capacity	Available	LUN
IBM Fibre Channel Disk (naa.600507630af...	50.00 GB	33.00 GB	33

Location  
/vmfs/devices/disks/naa.600507630affc1f30000000000000040

Primary Partitions	Capacity
VMFS (IBM Fibre Channel Disk (naa.6005076...	50.00 GB

The following VMware file system will be increased as shown:

Properties	Extents
Datstore name: 17g8	IBM Fibre Channel Disk (naa.600507630af...
<b>Formatting</b>	Total capacity: 50.00 GB
File system: VMFS-3	
Block size: 1 MB	
Maximum file size: 256 GB	

**Volume Properties**

General

Datstore Name:	17g8	Rename
Total Capacity:	49.75 GB	Increase...

Format

File System:	VMFS 3.33
Maximum File Size:	256 GB
Block Size:	1 MB

**Extents**

A VMFS file system can span multiple hard disk partitions, or extents, to create a single logical volume.

Extent	Capacity
IBM Fibre Channel Disk (naa.600507630affc...)	50.00 GB

**Extent Device**

The extent selected on the left resides on the LUN or physical disk described below.

Device	Capacity
IBM Fibre Channel Disk (naa.60...)	50.00 GB

  

Primary Partitions	Capacity
1. VMFS	50.00 GB

Refresh    Manage Paths...

Close    Help



On the second ESX host of the cluster

- esxdev.ealab.psp
- esxprod.ealab.psp
- 2008-Vanille
- 75\_12A
- 75\_13A
- 75\_14A
- 75\_15A
- CLIENT\_A1
- CLIENT\_A2
- CLIENT\_AB1
- CLIENT\_B1

**Hardware**

- Processors
- Memory
- Storage
- Networking
- Storage Adapters
- Network Adapters
- Advanced Settings

View: **Datstores** Devices

**Datstores**

Identification	Status	Device	Capacity	Free	Type	Last Update
17g-4	✔ Normal	IBM Fibre Channel...	16.75 GB	16.37 GB	vmfs3	3/4/2011 8:21:39 AM
17g5	✔ Normal	IBM Fibre Channel...	16.75 GB	16.37 GB	vmfs3	3/4/2011 8:21:39 AM
17g6	✔ Normal	IBM Fibre Channel...	16.75 GB	16.37 GB	vmfs3	3/4/2011 8:21:39 AM
17g7	✔ Normal	IBM Fibre Channel...	16.75 GB	16.37 GB	vmfs3	3/4/2011 8:21:39 AM
17g8	✔ Normal	IBM Fibre Channel...	49.75 GB	49.37 GB	vmfs3	3/4/2011 8:21:39 AM