

#:	TYPE NAME	SIZE	IDENTIFIER
0:		*2.0 TB	disk2

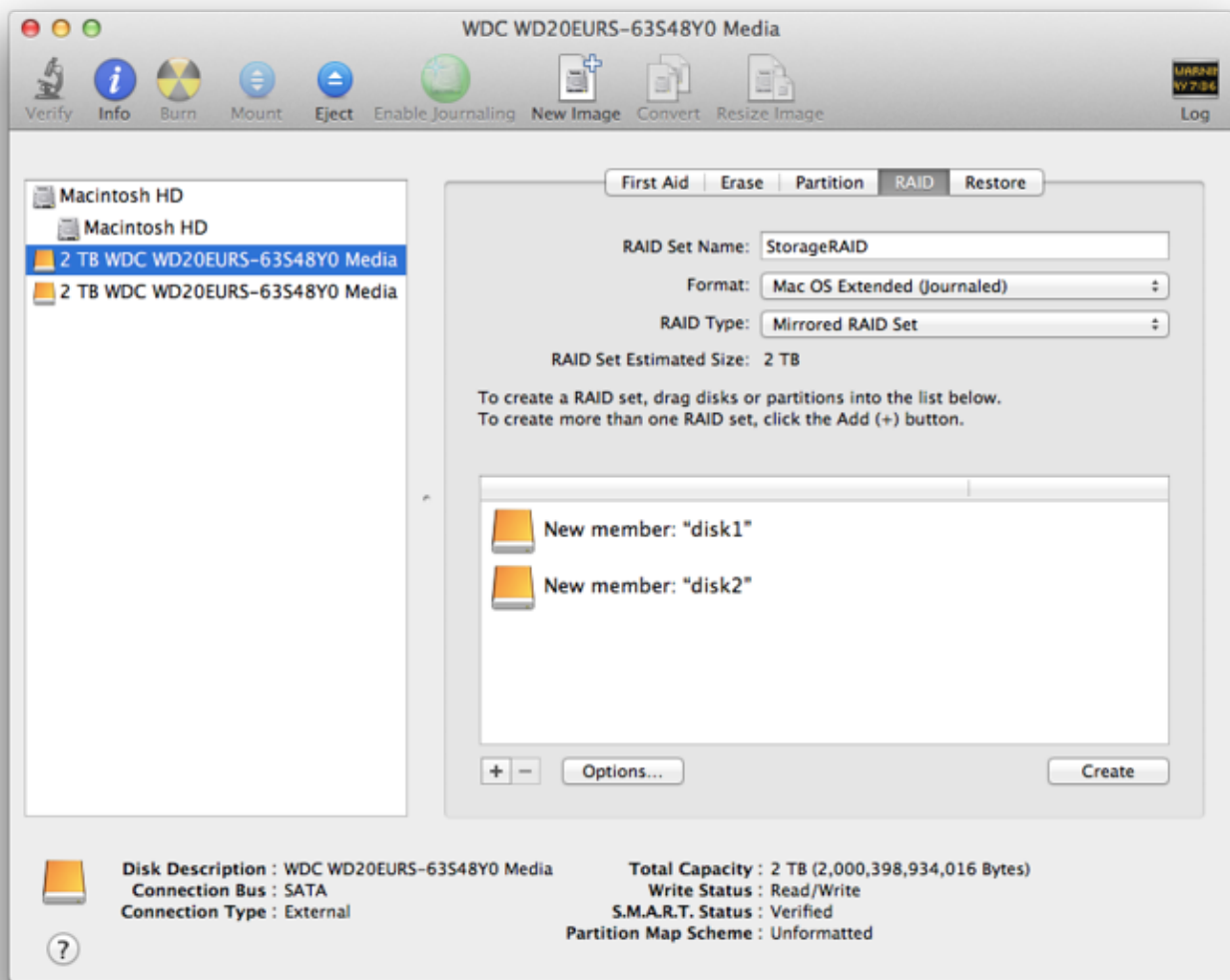
/dev/disk3

#:	TYPE NAME	SIZE	IDENTIFIER
0:	Apple_HFS Macintosh HD	*120.2 GB	disk3

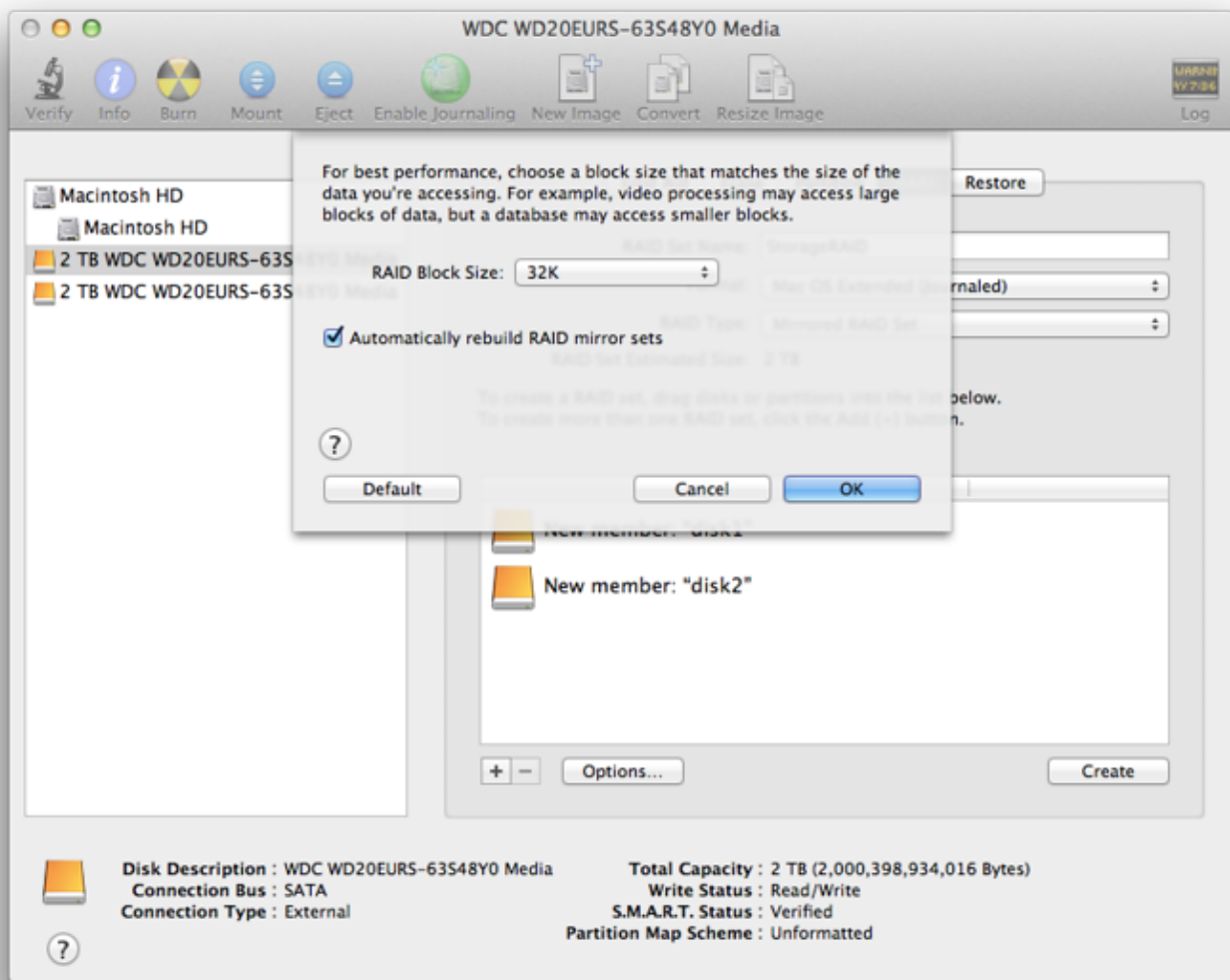
The coreStorage subsystem knows nothing about them yet, and only shows my Macintosh HD.

```
$ diskutil cs list
CoreStorage logical volume groups (1 found)
|
+-- Logical Volume Group B42959AC-207C-45CE-AC5B-A3B9E5289368
=====
Name:      Macintosh HD
Size:      120473067520 B (120.5 GB)
Free Space: 0 B (0 B)
|
+--< Physical Volume 33B112ED-10BF-452E-BC96-1761AE2FFDC7
|
|  Index:    0
|  Disk:     disk0s2
|  Status:   Online
|  Size:     120473067520 B (120.5 GB)
|
+--> Logical Volume Family BE76718E-765A-4797-B7FD-9B743B6E28E9
-----
Encryption Status:      Unlocked
Encryption Type:        AES-XTS
Conversion Status:      Complete
Conversion Direction:   -none-
Has Encrypted Extents:   Yes
Fully Secure:           Yes
Passphrase Required:     Yes
|
+--> Logical Volume 46D952CD-311E-476E-8C19-CE2392FBABCE
-----
Disk:      disk3
Status:    Online
Size (Total): 120154296320 B (120.2 GB)
Size (Converted): -none-
Revertible: Yes (unlock and decryption required)
LV Name:    Macintosh HD
Volume Name: Macintosh HD
Content Hint: Apple_HFS
```

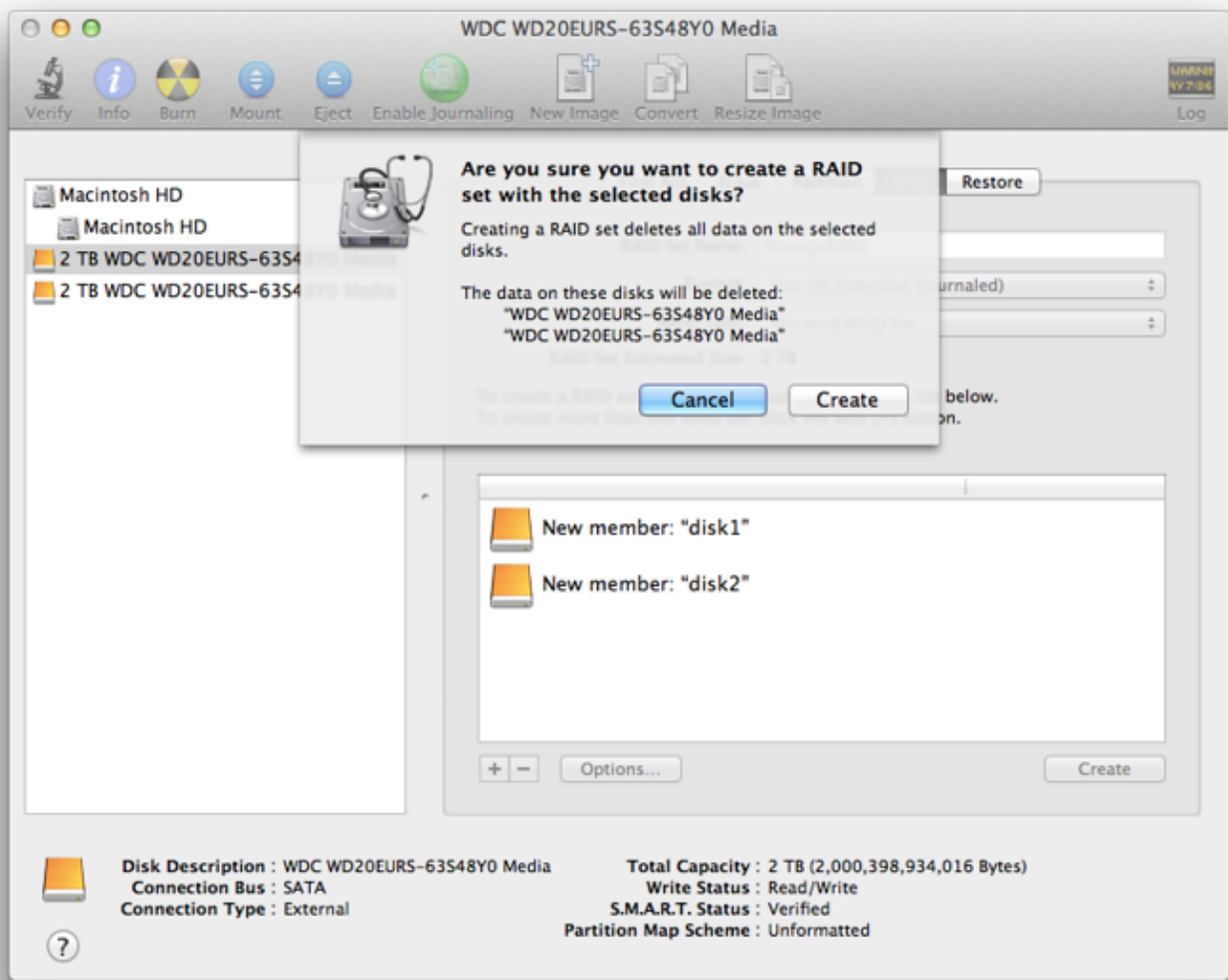
Create a RAID volume from the disks by dragging them into the RAID set and giving it a name (StorageRAID).



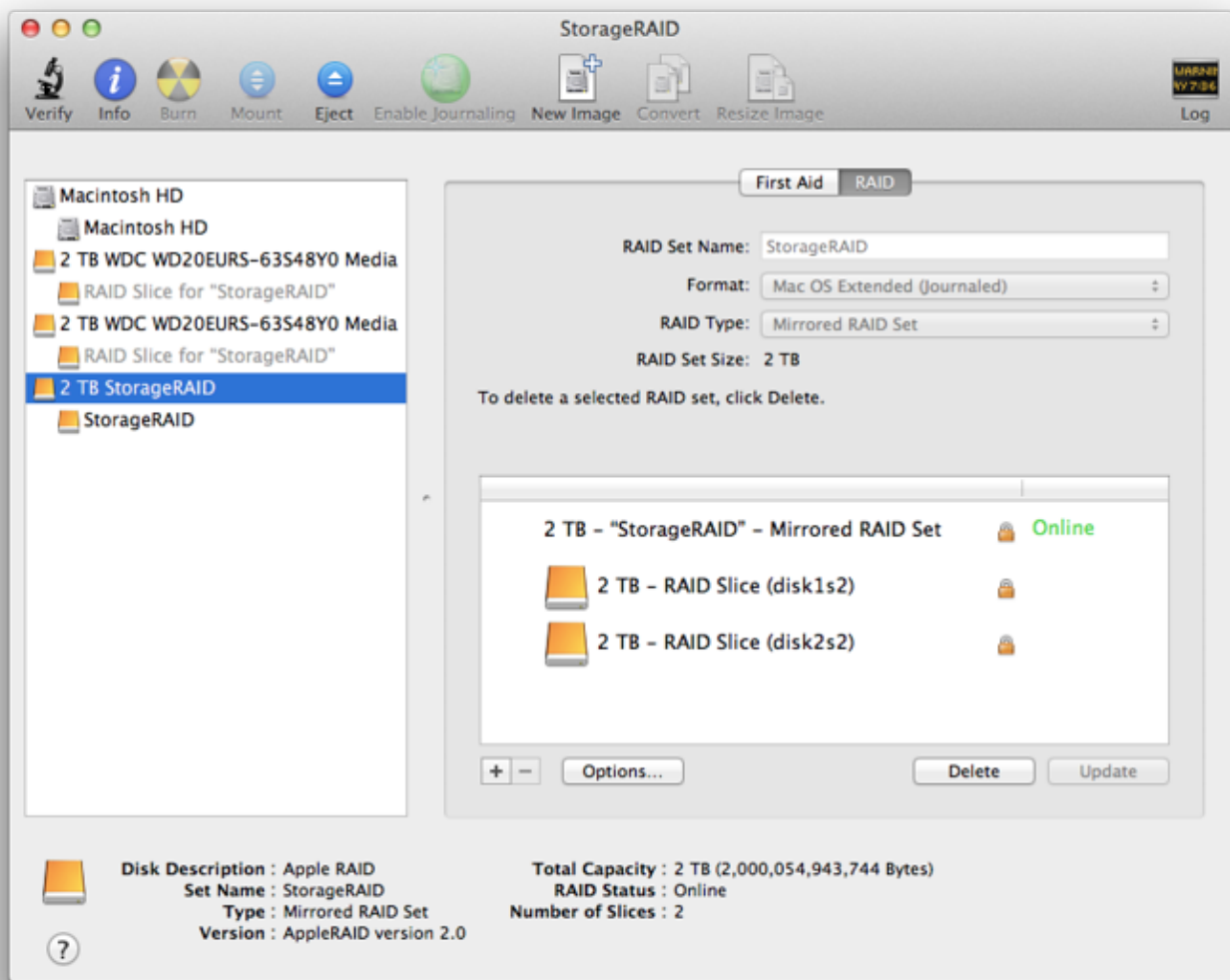
Under Options, tell it to automatically rebuild RAID sets if you want to.



Click Create, and then Create again to confirm.



It will create the RAID volume and mount it.



Now back to the command line.

```
$ diskutil list
/dev/disk0
#:                                TYPE NAME                    SIZE      IDENTIFIER
0:      GUID_partition_scheme      *121.3 GB   disk0
1:                  EFI                209.7 MB   disk0s1
2:      Apple_CoreStorage            120.5 GB   disk0s2
3:      Apple_Boot Recovery HD       650.0 MB   disk0s3
/dev/disk1
#:                                TYPE NAME                    SIZE      IDENTIFIER
0:      GUID_partition_scheme      *2.0 TB     disk1
1:                  EFI                209.7 MB   disk1s1
2:      Apple_RAID                   2.0 TB     disk1s2
3:      Apple_Boot Boot OS X         134.2 MB   disk1s3
/dev/disk2
#:                                TYPE NAME                    SIZE      IDENTIFIER
0:      GUID_partition_scheme      *2.0 TB     disk2
1:                  EFI                209.7 MB   disk2s1
2:      Apple_RAID                   2.0 TB     disk2s2
3:      Apple_Boot Boot OS X         134.2 MB   disk2s3
/dev/disk3
#:                                TYPE NAME                    SIZE      IDENTIFIER
0:      Apple_HFS Macintosh HD      *120.2 GB   disk3
/dev/disk4
#:                                TYPE NAME                    SIZE      IDENTIFIER
```

0: Apple_HFS StorageRAID *2.0 TB disk4

You can see that it created a disk4 as the RAID volume. Create a logical volume group named StorageLVG on disk4.

```
$ sudo diskutil cs createLVG StorageLVG disk4
Password:
Started CoreStorage operation
Unmounting AppleRAID set at disk4
Adding disk4 to Logical Volume Group
Creating Core Storage Logical Volume Group
Switching disk4 to Core Storage
Waiting for Logical Volume Group to appear
Discovered new Logical Volume Group "20D5D037-F88C-4F05-AD28-E569E9564FC0"
Core Storage LVG UUID: 20D5D037-F88C-4F05-AD28-E569E9564FC0
Finished CoreStorage operation
```

If you do a `diskutil cs list` now, you'll see the new LVG with the same UUID as above.

```
$ diskutil cs list
CoreStorage logical volume groups (2 found)
|
+-- Logical Volume Group B42959AC-207C-45CE-AC5B-A3B9E5289368
| =====
| Name:          Macintosh HD
| Size:          120473067520 B (120.5 GB)
| Free Space:    0 B (0 B)
| |
| +--< Physical Volume 33B112ED-10BF-452E-BC96-1761AE2FFDC7
| | -----
| | Index:      0
| | Disk:       disk0s2
| | Status:     Online
| | Size:       120473067520 B (120.5 GB)
| |
| +--> Logical Volume Family BE76718E-765A-4797-B7FD-9B743B6E28E9
| -----
| Encryption Status:      Unlocked
| Encryption Type:        AES-XTS
| Conversion Status:      Complete
| Conversion Direction:   -none-
| Has Encrypted Extents:  Yes
| Fully Secure:           Yes
| Passphrase Required:    Yes
| |
| +--> Logical Volume 46D952CD-311E-476E-8C19-CE2392FBABCE
| -----
| Disk:                   disk3
| Status:                 Online
| Size (Total):           120154296320 B (120.2 GB)
| Size (Converted):       -none-
| Revertible:             Yes (unlock and decryption required)
| LV Name:                Macintosh HD
| Volume Name:            Macintosh HD
| Content Hint:           Apple_HFS
|
+-- Logical Volume Group 20D5D037-F88C-4F05-AD28-E569E9564FC0
| =====
| Name:          StorageLVG
| Size:          2000054943744 B (2.0 TB)
| Free Space:    1999736168448 B (2.0 TB)
| |
| +--< Physical Volume AB193FA5-822F-479B-9D74-AAEC1BC22632
```

```

-----
Index:    0
Disk:     disk4
Status:   Online
Size:     2000054943744 B (2.0 TB)

```

In `diskutil list` you can see that it changed the type of StorageRAID from Apple_HFS to Apple_CoreStorage.

```

$ diskutil list
/dev/disk0
#:                                TYPE NAME                      SIZE      IDENTIFIER
0:      GUID_partition_scheme      *121.3 GB   disk0
1:              EFI                  209.7 MB   disk0s1
2:      Apple_CoreStorage           120.5 GB   disk0s2
3:      Apple_Boot Recovery HD       650.0 MB   disk0s3
/dev/disk1
#:                                TYPE NAME                      SIZE      IDENTIFIER
0:      GUID_partition_scheme      *2.0 TB     disk1
1:              EFI                  209.7 MB   disk1s1
2:      Apple_RAID                   2.0 TB     disk1s2
3:      Apple_Boot Boot OS X         134.2 MB   disk1s3
/dev/disk2
#:                                TYPE NAME                      SIZE      IDENTIFIER
0:      GUID_partition_scheme      *2.0 TB     disk2
1:              EFI                  209.7 MB   disk2s1
2:      Apple_RAID                   2.0 TB     disk2s2
3:      Apple_Boot Boot OS X         134.2 MB   disk2s3
/dev/disk3
#:                                TYPE NAME                      SIZE      IDENTIFIER
0:      Apple_HFS Macintosh HD      *120.2 GB   disk3
/dev/disk4
#:                                TYPE NAME                      SIZE      IDENTIFIER
0:      Apple_CoreStorage StorageRAID *2.0 TB     disk4

```

Create an encrypted logical volume on this new LVG.

```

$ sudo diskutil cs createLV 20D5D037-F88C-4F05-AD28-E569E9564FC0 jhfs+ Storage 100% -stdinpassphrase
Passphrase for new volume:
Started CoreStorage operation
Waiting for Logical Volume to appear
Formatting file system for Logical Volume
Initialized /dev/rdisk5 as a 2 TB HFS Plus volume with a 155648k journal
Mounting disk
Core Storage LV UUID: F490C159-4CAB-463A-BAB8-3A6468CF1FE5
Core Storage disk: disk5
Finished CoreStorage operation

```

If you look at `diskutil cs list` now, you'll see the new volume.

```

$ diskutil cs list
CoreStorage logical volume groups (2 found)
|
+-- Logical Volume Group B42959AC-207C-45CE-AC5B-A3B9E5289368
|   =====
|   Name:      Macintosh HD
|   Size:      120473067520 B (120.5 GB)
|   Free Space: 0 B (0 B)
|   |
|   +--< Physical Volume 33B112ED-10BF-452E-BC96-1761AE2FFDC7
|       |

```



```

| | Index: 0
| | Disk: disk0s2
| | Status: Online
| | Size: 120473067520 B (120.5 GB)
| |
+--> Logical Volume Family BE76718E-765A-4797-B7FD-9B743B6E28E9
| -----
| Encryption Status: Unlocked
| Encryption Type: AES-XTS
| Conversion Status: Complete
| Conversion Direction: -none-
| Has Encrypted Extents: Yes
| Fully Secure: Yes
| Passphrase Required: Yes
| |
+--> Logical Volume 46D952CD-311E-476E-8C19-CE2392FBABCE
| -----
| Disk: disk3
| Status: Online
| Size (Total): 120154296320 B (120.2 GB)
| Size (Converted): -none-
| Revertible: Yes (unlock and decryption required)
| LV Name: Macintosh HD
| Volume Name: Macintosh HD
| Content Hint: Apple_HFS
|
+-- Logical Volume Group 20D5D037-F88C-4F05-AD28-E569E9564FC0
=====
Name: StorageLVG
Size: 2000054943744 B (2.0 TB)
Free Space: 0 B (0 B)
|
+--< Physical Volume AB193FA5-822F-479B-9D74-AAEC1BC22632
| -----
| Index: 0
| Disk: disk4
| Status: Online
| Size: 2000054943744 B (2.0 TB)
|
+--> Logical Volume Family AC7F549F-1D6F-4E22-B050-34791ABF53FB
| -----
| Encryption Status: Unlocked
| Encryption Type: AES-XTS
| Conversion Status: Complete
| Conversion Direction: -none-
| Has Encrypted Extents: Yes
| Fully Secure: Yes
| Passphrase Required: Yes
| |
+--> Logical Volume F490C159-4CAB-463A-BAB8-3A6468CF1FE5
| -----
| Disk: disk5
| Status: Online
| Size (Total): 1999736168448 B (2.0 TB)
| Size (Converted): -none-
| Revertible: No
| LV Name: Storage
| Volume Name: Storage
| Content Hint: Apple_HFS

```

And in diskutil list.

```

$ diskutil list
/dev/disk0

```

#:	TYPE	NAME	SIZE	IDENTIFIER
----	------	------	------	------------

0:	GUID_partition_scheme		*121.3 GB	disk0
1:	EFI		209.7 MB	disk0s1
2:	Apple_CoreStorage		120.5 GB	disk0s2
3:	Apple_Boot	Recovery HD	650.0 MB	disk0s3
/dev/disk1				
#:	TYPE	NAME	SIZE	IDENTIFIER
0:	GUID_partition_scheme		*2.0 TB	disk1
1:	EFI		209.7 MB	disk1s1
2:	Apple_RAID		2.0 TB	disk1s2
3:	Apple_Boot	Boot OS X	134.2 MB	disk1s3
/dev/disk2				
#:	TYPE	NAME	SIZE	IDENTIFIER
0:	GUID_partition_scheme		*2.0 TB	disk2
1:	EFI		209.7 MB	disk2s1
2:	Apple_RAID		2.0 TB	disk2s2
3:	Apple_Boot	Boot OS X	134.2 MB	disk2s3
/dev/disk3				
#:	TYPE	NAME	SIZE	IDENTIFIER
0:	Apple_HFS	Macintosh HD	*120.2 GB	disk3
/dev/disk4				
#:	TYPE	NAME	SIZE	IDENTIFIER
0:	Apple_CoreStorage	StorageRAID	*2.0 TB	disk4
/dev/disk5				
#:	TYPE	NAME	SIZE	IDENTIFIER
0:	Apple_HFS	Storage	*2.0 TB	disk5

This is what it looks like in Disk Utility after everything is done.

