

HOW TO: RAID 6

USING YOUR IOMEGA® STORCENTER™ ix12-300r NETWORK STORAGE ARRAY WITH RAID 6



SITUATION: I want to make sure my backups are available in the event of a disk drive failure on my NAS device.


There is nothing worse than losing your data, especially from your backup drive. RAID 6 offers excellent data availability and peace of mind by being able to sustain up to 2 drive failures.

HOW RAID 6 PROTECTS YOUR DATA

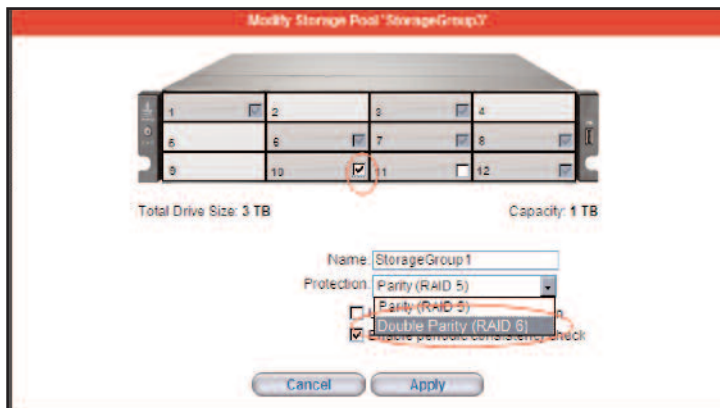
With RAID 6, data is protected by creating two separate parities, so in the event of two drive failures, data is still available and the Storage Pool can be recreated. RAID 6 configurations require a minimum of 4 disks.

RAID 6 also scales up easily, and can protect large storage arrays while losing a small portion of the overall disk space.

SETTING A STORAGE POOL TO RAID 6


It is easy to apply RAID 6 protection to your new Storage Pool. From the Settings tab, click **Storage Pools**. You need a minimum of four disks from your Iomega device selected to create a RAID 6 storage pool. On the Storage Pools page, click the plus icon  to add a Storage Pool. From the Add Storage Pool dialog, select Double Parity (RAID 6) from the drop-down, in addition to giving the new Storage Pool a name.

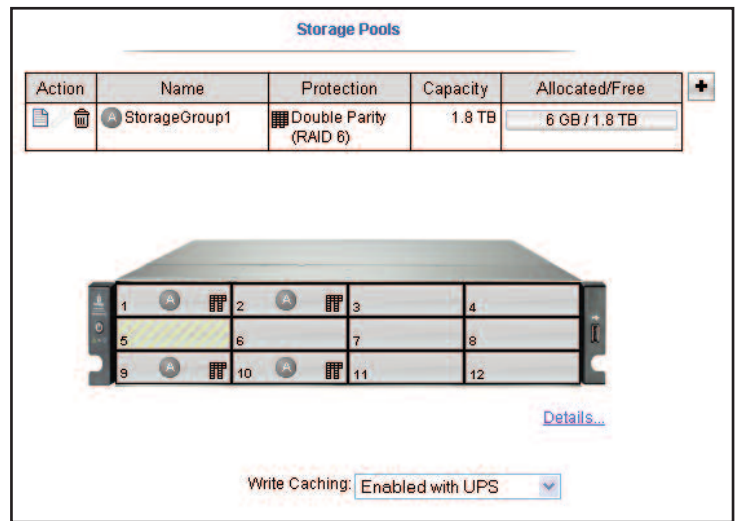
Check the disks from the disk graphic, making sure at least four are selected. You can select more than four for this RAID 6 Storage Pool.




Other options for your new Storage Pool include:
 Create commonly used folders
 Use as a default folder location
 Enable periodic consistency check

Click **Apply** when finished. Your new Storage Pool with RAID 6 is created.

To remove the Storage Pools, select the trash can icon  to delete the Storage Pools. This action cannot be undone.



MODIFYING THE STORAGE POOL

RAID 6 arrays can be expanded to more disks. Click the wrench icon  to modify settings on the Storage Pool.

In the popup, you can add one or more drives to the Storage Pool, rename the Storage Pool, or set the following options:
 Use as a default folder location
 Enable periodic consistency check

Click **Apply** to make these changes. Be aware that you cannot change your storage protection from RAID 6 to another form of protection. To change the protection the Storage Pool must be deleted first, and then recreated. This will also delete all of your data. When calculating RAID 6 capacity of your NAS device, the usable storage is (n-2), where n is the total number of drives in the pool.

The Iomega StorCenter family of network storage solutions blends award-winning EMC® storage and security technologies with easy-to-use configuration and management tools purpose-built for small businesses and remote offices. Learn more about Iomega network storage solutions at www.iomega.com/NAS.