

Expand an array with 3Ware

Before expanding your array, please consider the size of array that you are moving to. Changing the size of the array could cause issues if a new cluster size must be assigned:

<https://support.microsoft.com/en-us/help/140365/default-cluster-size-for-ntfs,-fat,-and-exfat>

It is possible to expand an array with 3Ware using the 3DM2 web utility. Please follow the steps below to successfully expand the array using the Migration method:

1. Install the new disks into the system. Keep in mind that is is an additive process, and not one where existing disks are removed. Also of note is that the disks need to be the same capacity as the original disks, else the total capacity of the new disk will only read as much of that of the existing disks. i.e new 6TB drives will only show up with 4TB available if an array with 4TB drives already exists.
2. Once installed, open the 3DM2 page by opening a browser and navigating to <https://localhost:888/>
3. Login with Administrator/admin256. For older units, or units that have just been re-imaged, the password may be 3ware.
4. Once logged in, navigate to Management > Maintenance.
5. Select the unit in the Unit Maintenance table (usually u0).
6. Select Migrate Unit and the bottom of the table.
7. Select the drives desired to expand the unit with by checking the Port ID next to them.
8. It is suggested to leave the RAID level the same as the original configuration. As a rule, systems shipped with 8 drives and fewer would be RAID 5 while systems shipped with 9 drives and more would be RAID 6.
9. It is also suggested to leave the stripe size as the original as well. As a rule, systems with RAID configuration all shipped with a 256k stripe size.
10. Select OK.

Once the unit has finished migrating (you can check the progress in the exacqVision client), the OS needs to be informed that the drive has expanded:

1. Reboot the system once migration has completed.
2. Log back into the system as the admin.
3. Stop the exacqVision server service by (Windows) selecting Windows Key+R > type **net stop exacqVisionServer** > OK or (Linux) select Ctrl+Alt+T > type **sudo /etc/init.d/edvrserver stop** > press Enter > use admin256 for password.
4. In Windows, select Start > right-click Computer > Manage > Disk Management > right-click existing array's partition (i.e. D:) > Extend > cycle through the menu by selecting Next and then OK at the end.

5. In Linux, new partitions must be under 16TB. In this case, please call Support for assistance in expanding the array in the OS.
6. Start the exacqVision server service by (Windows) selecting Windows Key+R > type **net start exacqVisionServer** > OK or (Linux) select Ctrl+Alt+T > type **sudo /etc/init.d/edvrserver start** > press Enter > use admin256 for password.
7. Open the exacqVision Client and navigate to Config (gears) > Storage under the system being edited. Make sure the new capacity is the same as what was reported by the OS.