

Data ONTAP® 8.1
System Administration Guide
for Cluster-Mode

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conf Check the documentation for Memory Requirements before doing this vfiler status Displays the status of the vfiler i.e. running or stopped vfiler status r On the host system. The s is optional NOTE Creating a qtree as the base vfiler does not allow you to enable snapmirror. You must create the base as a volume. Shows which luns are aligned and which are not. This can also be FCP addresses. Warning this method overwrites the file. Make sure you copy out original contents if you wish to keep it. The interface will be vif010 vlan delete vif0 10 deletes the vlan interface vif010 ifconfig vif010 x.x.x.x netmask x.x.x.x partner vif010 Sets IP information on the interface named vif010 with a partner interface of vif010 route add default 192.168.1.1 1 Adds a default route of 192.168.1.1 with metric 1 Displays per second statistics for CPU's, Kahuna, WAFL, etc statit b MUST BE DONE IN PRIV SET DIAG MODE. Starts a performance snapshot statit e MUST BE DONE IN PRIV SET DIAG MODE. Stops a performance snapshot and displays the stats on screen. TIP Turn on logging in your terminal program before running this command As everything is done to provide the most accurate steps to date, we take no responsibility if you implement any of these steps in a production environment. Then I could delete the previous root volume and aggregate and get the disks back. I also had to recreate the home directory share for cifs to point to the new location. I remember having to do that, but it's been a while now. But your autosupport will alert netapp so make sure after you have finished doing what you need to do disable cifs. With NFS you will need to purchase the license I find on reboot I have to reenable SSH and install SSL certificates most times, Sometimes both, sometimes one or the other. Any ideas why this is Can you please post the commands over here for changing the root volume from 32 bit to 64 bit. It will be more helpful for the starters like

me.<http://belniig.by/public/britax-baby-seat-manual.xml>

Only in version 8 you can snapmirror from 32bit to 64bit It is now clear. Need to set up a ssh connection to Netaps. New to product. I am just troubleshootin an appliance trying to make a secure ssh connection to Netapps system. I am using a vm for testing. 8.1.2 Thank you Learn how your comment data is processed. Reply on Twitter 1265598541587722243 Retweet on Twitter 1265598541587722243 68 Like on Twitter 1265598541587722243 133 Twitter 1265598541587722243 Load More. Categories. NetApp, Inc. 495 East Java Drive Sunnyvale, CA U.S. NetApp, Inc. 495 East Java Drive Sunnyvale, CA U.S. SAS cabling error messages. Danger Failure to follow these directions could result in bodily harm or death. Caution If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment might be impaired. Do not try to lift it by yourself. It must provide overcurrent protection for the unit and must not be overloaded by the local number of units installed in the rack. The grounding type plug is an important safety feature. Danger Do not remove a faulty PSU unless you have a replacement PSU of the correct type ready for insertion. The system must not be run without all units or module blanks in place. Danger of electrical shock inside. Return the PSU to you supplier for repair. Caution This unit has more than one power supply cord. To reduce the risk of electrical shock, disconnect all power supply cords for complete isolation before servicing. 8 Installing SAS disk shelves in a new HA pair or singlecontroller configuration Installing the SAS disk shelves as part of your new a new HA pair or singlecontroller configuration includes installing a rack mount kit for each disk shelf and installing the disk shelves in the rack. Configuring a stretch MetroCluster system with SAS disk shelves and SAS optical cables in 7mode Configuring a MetroCluster system with SAS disk shelves and FibreBridge 6500N bridges in 7Mode Clustered Data ONTAP 8.

3 MetroCluster Installation and Configuration Guide Steps 1. Ground yourself to the platform chassis using the grounding leash. 2. Install the twopost telco tray kit or fourpost rail kit for your disk shelf model using the installation flyer that came with the kit. Attention If you are installing multiple disk shelves, you should install them from the bottom to the top of the rack for the best stability. Do not earmount the disk shelf into a telcotype rack; the disk shelf will collapse from the rack under its own weight. DS4243, DS2246, or DS4246 disk shelf Install the twopost telco tray kit or fourpost rail kit to support the disk shelf. Attention For twopost midmount installations, you must use the midmount brackets in addition to the twopost telco tray kit. DS4486 disk shelf Install the fourpost rail kit to support the disk shelf. Note If you are installing a DS4486 disk shelf and you are installing it in a NetApp cabinet, you should have received the X8783 rail kit. If you are installing the disk shelf in a thirdparty cabinet, you should have received the X5529 or X5526 rail kit. 3. Install and secure the disk shelf onto the support brackets and rack. Avoid removing disk drives or carriers if possible, because excessive handling can lead to internal damage. It is recommended that you use a mechanical hoist or lift if you are moving a fully loaded DS4243 or DS4486 disk shelf. Attention A fully populated DS4243 or DS4246 disk shelf can weigh approximately 110 lbs 49.9 kg. A fully populated DS2246 disk shelf can weigh approximately 49 lbs 22 kg. A DS4486 disk shelf with the two IOMs, four power supplies, and four disk carriers can weigh approximately 82 lbs 37 kg. A fully populated disk shelf can weigh approximately 150 lbs 68 kg. 4. Reinstall any power supplies and IOMs you removed to install your disk shelf into the rack. If you installed a DS4486 disk shelf, carefully unpack and insert the remaining disk carriers using two hands.

<https://www.interactivelearnings.com/forum/selenium-using-c/topic/20852/environmental-protection-fire-and-rescue-manual>

Note Do not place your hands on the two disk drive boards exposed on the underside of the disk carrier. 5. If you are adding multiple disk shelves, repeat Steps 2 through 4 for each disk shelf you are installing. After you finish Use the Cabling disk shelves in a new HA pair or singlecontroller configuration procedure in the SAS Disk Shelves Universal SAS and ACP Cabling Guide to connect

the disk shelf power cords, power on the disk shelves, verify shelf IDs, and cable the SAS and ACP connections. 10 Changing the disk shelf ID You must have a unique shelf ID for each SAS disk shelf internal and attached within your storage system. Note Although Data ONTAP 8.3 made 99 available as a valid shelf ID, because of Bug ID 898866, 99 cannot be used. NetApp Bugs Online Bug ID 898866 Setting Shelf ID to 99 is not supported Note FAS2xxx systems have the internal disk shelf ID preset to 00. You must reassign the duplicate shelf ID. Note For systems running Data ONTAP 8.2.x or earlier, the system assigns a soft ID number equal to or greater than 100, or assigns the disk shelf serial number to the duplicate disk shelf. Note If the ID takes longer than two to three seconds to blink, press the Ushaped tab or button again, making sure to press it in all the way. This activates the disk shelf ID programming mode. 4. Press the Ushaped tab or button to advance the number until you reach the desired number from 0 to 9. The first number continues to blink. 5. Change the second number of the shelf ID by pressing and holding the Ushaped tab or button until the second number on the digital display blinks, which can take two to three seconds. The first number on the digital display stops blinking. Both numbers on the digital display start blinking and the fault LED on the operator display panel illuminates after about five seconds, alerting you that the pending disk shelf ID has not yet taken effect. 8. Powercycle the disk shelf to make the shelf ID take effect.

<http://parsbaft.com/images/910-brother-knitting-machine-manual.pdf>

Note If you are changing the shelf ID in a storage system that is running Data ONTAP, you must wait at least 70 seconds before turning the power back on to complete the power cycle. This ensures that Data ONTAP can properly delete the old disk shelf address and update the copy of the new disk shelf address. If your storage system is up and serving data, changing a shelf ID is a disruptive action. 9. Repeat Steps 1 through 8 for each additional disk shelf. 12 Hotadding a SAS disk shelf You can hotadd a SAS disk shelf to an existing stack of supported SAS disk shelves; you can also hotadd a SAS disk shelf to a SAS HBA or an onboard SAS port on the controller as a new stack. Hotadding a disk shelf involves installing, cabling, and verifying the disk drive and disk shelf firmware versions. Each controller in your storage system must have enough available PCI SAS HBA or onboard SAS ports. You must have identified the correct controller port pairs that you can use to cable the disk shelf. The Universal SAS and ACP Cabling Guide has completed port pair worksheets for common configurations that you can use. If there is no completed worksheet for your configuration, fill out a worksheet template. Best practice is to always have the most current versions of firmware on your system. After hotadding the disk shelf, you must replace the SAS copper cables for the rest of the shelfto shelf connections in the stack and the shelftocontroller connections from the first and last disk shelf in the stack so that the stack meets the cabling rules for using SAS optical and SAS copper cables. This means that you must have ordered the appropriate number of SAS optical cables. Note If you have a multipath HA or singlecontrollerdualpath multipath system, you can replace cables nondisruptively. The SAS cable QSFP connectors are keyed; when oriented correctly into a SAS port, the QSFP connector clicks into place and the disk shelf SAS port LNK LED illuminates green.

<http://oficinasdeteatro.com/images/91-yamaha-waverunner-manual.pdf>

Cables have a minimum bend radius. If you are using a mix of SAS copper cables and SAS optical cables, the following rules apply. The total path includes the set of breakout cables, patch panels, and interpanel cables. If you are using SAS optical multimode breakout cables, the following rules apply. You can use these cables for controllertoshelf and shelfto shelf connections. If you use multimode breakout cables for a shelfto shelf connection, you can only use it once within a stack of disk shelves. You must use SAS optical multimode QSFPtoQSFP or MPO cables with MPO QSFP modules to connect the remaining shelfto shelf connections. The pointtopoint QSFPtoQSFP path of any multimode cable cannot exceed 150 meters for OM4 and 100 meters for OM3. The path includes the set of breakout cables, patch panels, and interpanel cables. The total endtoend path sum of pointtopoint paths from the controller to the last shelf cannot exceed 510 meters. The total path

includes the set of breakout cables, patch panels, and interpanel cables. Up to one pair of patch panels can be used in a path. You need to supply the patch panels and interpanel cables. The interpanel cables must be the same mode as the SAS optical breakout cable multimode. You received a set of QSFPtoMPO cable modules with each set of SAS optical breakout cables, which you must attach to the MPO end of each SAS optical breakout cable. The breakout cables have SC, LC, or MTRJ connectors on the opposite end, which connect to a patch panel. You must connect all eight four pairs of the SC, LC, or MTRJ breakout connectors to the patch panel. Installing a disk shelf for a hotadd Installing the new disk shelf involves installing the disk shelf in a rack using the applicable twopost telco tray kit or the fourpost rail kit, setting the disk shelf ID, and enabling ACP if you will be using ACP capability on your storage system for the first time. Steps 1. Properly ground yourself. 2.

Install the twopost telco tray kit or the fourpost rail kit for your disk shelf model using the installation flyer that came with the kit. Do not earmount the disk shelf into a telcotype rack; the disk shelves weight will cause it to collapse in the rack under its own weight. If you have a. Then, using the installation flyer that came with the kit. Avoid removing the disk drives or carriers if possible, because excessive handling can lead to internal damage. If you installed a DS4486 disk shelf, carefully unpack and insert the remaining disk carriers. Note Do not place hands on the two disk drive boards exposed on the underside of the disk carrier. 5. If you are adding multiple disk shelves, repeat Steps 3 through 4 for each disk shelf you are installing. 6. Connect the power supplies for each disk shelf a. Connect the power cords first to the disk shelves, securing them in place with the power cord retainer, and then connect the power cords to different power sources for resiliency. Note If you have a disk shelf with four power supplies, connect power supplies in slots 1 and 3 to one power source and power supplies in slots 2 and 4 to a different power source. b. Turn on the power supplies for each disk shelf and wait for the disk drives to spin up. When the disk shelf has the maximum number of supported power supplies, all disk drives or carriers spin up at the same time. However, if one or two power supplies have faulted in a disk shelf with four power supplies, or if one power supply has faulted in a disk shelf with two power supplies, disk drives spin up in sets of six at 12second intervals. 7. Change the shelf ID for each disk shelf you hotadded by completing the following substeps You can verify IDs already in use by entering the sasadmin shelf command at the system console. For 7Mode HA pairs, you can enter this command from either node. For clustered systems, you must run this command from the nodeshell of the target node. a.

Change the shelf ID to a valid ID. b. Powercycle the disk shelf to make the shelf ID take effect. For clustered systems, you must run this command from the nodeshell of the target node. b. Dedicate a network interface and specify other parameters, such as network domain and netmask, as prompted. For 7Mode HA pairs, you must dedicate a network interface for each node. Note Some storage systems have a dedicated Ethernet port for ACP that you should use. For example, FAS2040 systems would use the dedicated e0P port. Cabling the hotadded disk shelf Cabling the hotadded disk shelf involves cabling the SAS connections and if applicable, assigning disk drive ownership and cabling the ACP connections. Before you begin You must have met all of the Before you begin requirements of the Hotadding a SAS disk shelf section and installed your disk shelf according to the Installing a disk shelf for a hotadd procedure. Steps 1. Cable the SAS connections. You can leave the other end of the cable connected to the controller to minimize confusion, or replace the cable with a longer cable if needed. Note If you have a singlecontrollersinglepath or singlecontrollermixedpath configuration, you must halt your system to replace cables. The “Replacing SAS cables” section of this document has more information. To an existing SAS HBA or onboard SAS port b. Connect daisychain the IOM A circle port of the last disk shelf in the stack to the IOM A square port of the new disk shelf using the SAS cables that came with the new disk shelf. c. Connect the cable you removed in Substep 1a to the IOM A circle port of the new disk shelf. d. Verify that all cables are securely fastened. e. Repeat Substeps 1a through 1d for IOM B. The storage system recognizes the

new disk shelf as soon as all the disk drives have spun up. a. Use the port pairs worksheet you acquired in the Before you begin section.

Detailed cabling instructions are in the How to read the port pairs worksheet to cable stacks section of the SAS Disk Shelves Universal SAS and ACP Cabling Guide. b. Verify that all cables are securely fastened. If a disk shelf error message appears on the console after you complete SAS cabling, you need to use the information in SAS cabling error messages to determine the corrective actions you should take. 2. Verify SAS connectivity by completing the following substeps For 7Mode HA pairs, you can run these commands from the system console of either node. The following substeps enable you to complete basic disk ownership assignment for 7Mode. To specify the disk drives to be assigned or the system to own the disk drives, see the Data ONTAP Storage Management Guide for 7Mode. For 7Mode HA pairs, you can run these commands from the system console of either node. If you are cabling a disk shelf. To an existing stack of disk shelves To an existing SAS HBA or onboard SAS port Then. a. Disconnect any intrastack, stacktostack, and controllertoshelf ACP connections from the last disk shelf and reconnect them to the same ACP ports in the new disk shelf. b. Daisychain the ACP ports from the last disk shelf to the new disk shelf. Use the appropriate cable replacement procedure for your configuration in the “Replacing SAS Cables” section of this document. 8. If running a version of Data ONTAP prior to 8.2.1, go to Verifying the disk drive, disk shelf, and ACP firmware versions. SAS cabling error messages After you have cabled the SAS connections for your hotadded disk shelf, one of two error messages can appear on the console if there is a problem with the disk shelf IDs. Some of the corrective actions in these error messages are disruptive. ses.shelf.invalNum Description This message occurs when Data ONTAP detects that a Serial Attached SCSI SAS disk shelf connected to the system has an invalid disk shelf number. Corrective action 1. Powercycle the disk shelf. 2.

If the problem persists, replace the disk shelf modules. 3. If the problem persists, replace the disk shelf. ses.shelf.sameNumReassign Description This message occurs when Data ONTAP detects more than one Serial Attached SCSI SAS disk shelf connected to the same adapter with the same disk shelf number. If they are not, you must manually update the firmware. NetApp Downloads Disk Shelf Firmware NetApp Downloads Disk Drive and Firmware Note Do not revert firmware to a version that does not support the disk shelves, disk shelf FRU components, or SAS cables in your system. Steps 1. Check the console for a message containing dbfu.selectedinfo and text stating selected for background disk firmware update to determine whether or not you need to manually update the disk drive firmware. After assigning disk drives on the hotadded disk shelf, the disk drive firmware updates should have begun automatically on each disk drive with downrev firmware. A repeated message similar to what is shown above appears on the console every three to five minutes—the time it takes to update downrev firmware on a disk drive—showing the firmware update progress. If. Then. There is similar output Go to the next step. Disk drives with downrev firmware have been detected and the firmware is being updated automatically. If the firmware version in the command output is. Then. The same as or later than the most current version on the NetApp Support Site No disk shelf firmware update is needed. An earlier version than the most current version on the NetApp Support Site Then. a. Download the disk shelf firmware file by using the procedure at NetApp Downloads Disk Shelf Firmware. For HA pairs, you can run the commands from either controller. b. If you are using ACP, go to Step 4; otherwise, the procedure is complete. 4. If you are using ACP, verify that the ACP firmware is the most current version a. Enter the following command at the system console storage show acp b.

Locate the ACP firmware information for the hotadded shelf in the output. If the ACP firmware version in the storage show ACP output is. Then. The same as the most current version on the NetApp Support Site No ACP firmware update is needed. Your system can be a 7Mode or clustered Data ONTAP system. You can hotremove one or more disk shelves from anywhere within a stack of

disk shelves or remove a stack of disk shelves. See the appropriate document for your MetroCluster system. For FAS22xx and FAS25xx HA pairs with external storage, the external storage must be cabled as multipath HA. For FAS22xx and FAS25xx singlecontroller configurations with external storage, the external storage must be cabled as dual path multipath. You must have already removed all aggregates from the disk drives in the disk shelves you are removing. Attention If you attempt this procedure with aggregates on the disk shelf you are removing, you could fail the system with a multidisk panic. For information about taking an aggregate offline for 7Mode systems, see “Taking an aggregate offline” in the Storage Management Guide for 7Mode. For information about taking an aggregate offline for clustered Data ONTAP systems, see “Commands for managing aggregates” in the Clustered Data ONTAP Physical Storage Management Guide. Reassigning epsilon minimizes the risk of unforeseen errors impacting all nodes in a clustered Data ONTAP system. Information about the role of quorum and epsilon, and the procedure for reassigning epsilon to another node in a cluster can be found in the Clustered Data ONTAP System Administration Guide for Cluster Administrators. Note This procedure follows the best practice of removing disk drive ownership; therefore, steps are written with the assumption that you have removed disk drive ownership.

For information about removing disk drive ownership in a clustered Data ONTAP system, see the “Removing ownership from a disk” procedure in the Clustered Data ONTAP Physical Storage Management Guide. These documents are available on the NetApp Support Site at mysupport.netapp.com. Note The procedure for removing ownership from disk drives requires you to disable disk autoassignment. Therefore, if the current cables are not long enough—including Ethernet cables for the ACP connections—you need to have longer cables available. The Hardware Universe at hwu.netapp.com contains information about supported SAS cables. For clustered systems, you run this command from the nodeshell. It might take up to a minute for the system to complete discovery. The configuration is listed in the System Storage Configuration field. Note For FAS22xx and FAS25xx systems with external storage, the output is displayed as MixedPath HA for an HA pair, and MixedPath for a singlecontroller configuration. This is because the internal storage is cabled differently than the external storage. For an HA pair, the internal storage is cabled as singlepath HA and the external storage is cabled as multipath HA. For a singlecontroller configuration, the internal storage is cabled as singlepath and the external storage is cabled as dualpath multipath. Attention If your non FAS22xx or FAS25xx system is shown as something other than MultiPath HA or MultiPath, you cannot continue with this procedure. Your system must meet the prerequisites stated in the “Before you begin” section of this procedure. 2. Verify that no aggregates are on the disk drives in the disk shelves you are removing, by completing the applicable substeps If your system is operating in. 7Mode Then. a. Enter the following command `aggr status r` If you have traditional volumes, you enter the `vol status r` command. For multipath HA configurations, you can enter the command from the console of either controller.

If all disk drives are spares, the output message is There are no entries matching your query. If any disk drives are failed, output contains a line item for each failed disk drive and shows the disk drive as broken. Attention If any disk drives in the disk shelves you are removing are anything other than spares or failed, you cannot continue with this procedure. Your system must meet the prerequisites stated in the “Before you begin” section of this procedure. The disk drives in the disk shelves you are removing are in the correct state. Example The following output for the `disk show v` command shows disk drives on the disk shelf being removed disk shelf 3. Two disk drives have the ownership removed; therefore, Not Owned appears in the OWNER column. You can enter the command from the console of either controller. For clustered systems, enter the command from the nodeshell. All LEDs on the front and back of the specified disk shelves flash. LEDs continue to flash for up to five minutes. Note You need to be certain of which disk shelves you are removing so that you can correctly recable path A and path B later in this procedure. Even if you are removing an entire stack of disk shelves, it is recommended that you use this command. The first stack Then. i. Uncable the

ACP shelftoshelf connections and put the cables aside. ii. Uncable the ACP intrastack connections from the first disk shelf IOM B ACP square port to the last disk shelf IOM A ACP circle port and put the cable aside. iii. If you have more than one stack, disconnect the stacktostack connection by removing the cable connecting the last disk shelf IOM B ACP circle port to the first disk shelf IOM A ACP square port of the next stack, and put the cable aside. iv.

If you have more than one stack, reestablish the controllertostack connection by moving the cable connecting the Ethernet port on the controller from the first disk shelf IOM A ACP square port so that it connects to the same ACP port in the first disk shelf of the second stack. The second stack is now the first stack in your storage system. An interim stack i. Uncable the ACP shelftoshelf connections and put the cables aside. ii. Uncable the ACP intrastack connections from the first disk shelf IOM B ACP square port to the last disk shelf IOM A ACP circle port and put the cable aside. iii. Recable the stacktostack connection to bypass the stack you are removing by removing the cable connecting the last disk shelf IOM B ACP circle port of the previous stack to the first disk shelf IOM A ACP square port of the stack you are removing and putting it aside; then, move the stacktostack cable connected from the last disk shelf IOM B ACP circle port in the stack you are removing to the same ACP port in the last disk shelf of the previous stack. The last stack i. Uncable the ACP shelftoshelf connections and put the cables aside. ii. Uncable the ACP intrastack connections from the first disk shelf IOM B ACP square port to the last disk shelf IOM A ACP circle port and put the cable aside. iii. Disconnect the stacktostack connection by removing the cable connecting the last disk shelf IOM B ACP circle port of the previous stack to the first disk shelf IOM A ACP circle port of the stack you are removing, and put the cable aside. iv. Reestablish the controllertostack connection by moving the cable connecting the Ethernet port on the controller from the last disk shelf IOM B of the stack you are removing so that it connects to the same ACP port in the last disk shelf of the previous stack. When ACP connectivity is reestablished, the output for line item ACP connectivity status shows Full Connectivity. d. Go to Step 11. 6.

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