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Storeonce 5100 installation guide pdf file format

If neither of the recommended options are feasible, the factory-integrated option is also a viable option for self-installing customers. The expanded storage is available for use; no further configuration is required. Checking for the latest software on page Verify that permissions only and will not be able to carry out any system configuration, the default User Name and Password for this account is Operator. Note that Manufacturing will use a single license that covers all expansions. The user has the option to change the SSL certificate to provide a better level of authentication. Validating and activating the StoreOnce configuration 5960 60 Complete network configuration61 Additional configuration tasks for the StoreOnce System, be sure to save the configuration and run a system confidence check. The system will continue to boot normally into the StoreOnce OS. Configuring licenses 3334 NOTE: If capacity expansion has been ordered and pre-configured by the factory with the base system, the license and click OK at the license added successfully prompt. Click Modify. Checks will take maximum of 60 seconds. A maximum of five of these kits may be used with the first enclosure until all disk bays are full. Look for components that have a Recommended Action of either Upgrade or Downgrade. Table 13: Network Configuration New Subnet fields Name Name Protocol Description The name of the Subnet Select IPv4 or IPv6. Mini-SAS HD connectors are used throughout. Or use the StoreOnce CLI command system enable remoteeventsuppression "reason", as described in the StoreOnce System CLI Reference Guide. Setting up the Network Management application for use with the StoreOnce System Procedure 1. To download the free software go to 3. Up to four enclosures below the server The second recommended configuration has the server at the top and all enclosures below it. In NTP Server Configuration, click the checkbox for NTP Selection Enabled. Configuring ilo4, all systems Procedure 1. No additional hardware is required for the 10 GbE Base-T cards. Up to five packs may be added to the base storage in a disk enclosure. However, it is good practice to put the configuration name into the description is activated. Setting up Remote Support on the StoreOnce Management GUI Procedure 1. When you log back into the StoreOnce CLI, the banner text will displayed after you enter your user name and before you enter your password. In Time zone setting, select your desired region from the Select Region drop down. Click Manage Notifications to update the event/-address association list. When enabled, Remote Event Suppression flags all outbound event messages to let the HPE Support team that the system is undergoing some form of maintenance, such as network reconfiguration, that does not require a case to be raised with HPE Support. Overview of StoreOnce configuration tasks Table 1: Configuration checklist Task 1 The Start Here poster describes a basic installation with connection to LAN port 1, which is valid for all products. The guide is divided into two sections. You may leave the configuration wizard at any time by clicking Exit. Refer to the HPE StoreOnce TB Capacity Upgrade Kit Guide for detailed instructions about installing and configuring Capacity Upgrade Kits both at initial installation and at a later date. This string acts as a password for Read access and must be manually configured in the management application so that it can access events. For connection to SAN, the FC cards must be installed, starting with slot 6, in the slot sequence 6, 5, 4, 1. NOTE: Within the StoreOnce software this enclosure is identified as Storage Cluster 1 and volume and pool names have C2 as part of their naming convention to indicate that they are connected to the RAID controller card in slot 2, for example: Pool C2_F6. If DHCP is used, one IPv6 subnet will be consumed. Figure 10: Front view of HPE StoreOnce 5500 System disk enclosure 1 Hard drive LEDs 2 UID button/led 3 Internal health LED 4 GSI LED Front and rear views of the disk enclosure 6768 Figure 11: Rear view of HPE StoreOnce 5500 System disk enclosure 1, 7, 17, 22 Power supplies 2 Power supplies 2 Power On/Standby button and LEDs 3, 9, 16, 21 Fans 4, 10, 15, 20 I/O module LEDs 5, 11, 13, 18 I/O module SAS port 1 6, 12, 14, 19 I/O module SAS port 2 8 Display Storage expansion The HPE StoreOnce 5500 System supports capacity expansion. Use the StoreOnce GUI to apply the license, as described in the next section. NOTE: If the additional storage has not been pre-configured, there will be details in the Unconfigured Storagesection. Each Capacity Upgrade after installation requires a license that must be loaded. Table 14: PCIe slot configuration options for StoreOnce Systems Product Name PCIe slots available for additional cards Card choices HPE StoreOnce 3100 System None The addition of 10 GbE and/or FC cards is not supported HPE StoreOnce 3500 Series Four: slots 1, 4, 5 and 6 10 GbE SFP or 10 GbE-T Network card 8 Gb or 16 Gb Fibre Channel card HPE StoreOnce 5100 System Four: slots 1, 4, 5 and 6 10 GbE SFP or 10 GbE-T Network card 8 Gb or 16 Gb Fibre Channel card HPE StoreOnce 5500 System Four: slots 1, 4, 5 and 6 10 GbE-T Network card PCIe slot allocation at delivery 8 Gb or 16 Gb Fibre Channel card If you have ordered additional PCIe cards with the base product, the StoreOnce System will have the correct cards installed in the correct PCIe slots, and they will be configured and licensed when the product is supplied. Select System Configuration. This determines which network ports will be cabled in addition to the initial 1 GbE connection to LAN Port 1 described in the Start Here poster. HPE StoreOnce 5500 System HPE StoreOnce 5500 System front and rear views, server For more information about LEDs see the HPE StoreOnce 5500 System Maintenance and Service Guide SID Figure 8: HPE StoreOnce 5500 System server front view 1 OS disks 2 UID button LED 3 NIC status LED 4 Power on/standby button and system power LED 5 Health LED PS2 PS1 3 6 ilo Figure 9: HPE StoreOnce 5500 System server rear view 66 Hardware overview reference section67 1 Slot 1, available for Optional Hardware 2 Slot 2, first RAID controller card 4 Slot 4, available for Optional Hardware 5 Slot 5, available for Optional Hardware 6 Slot 6, available for Optional Hardware 7 Optional serial port 8 Power supply 1 (PS1) 9 Power supply 2 (PS2) 10 Video connector 11 1Gb RJ45 Port Gb RJ45 Port 1 (eth0) 15 ilo4 connectors 17 Rear UID LED Front and rear views of the disk enclosure For more information about LEDs see the HPE StoreOnce 5500 System Maintenance and Service Guide. Viewing storage status Procedure 1. Or save the configuration and activate subsequently from the Custom Network Configuration List. The search result includes the StoreOnce System Software for all products, VSA evaluation files, and QR images for all hardware platforms, plus a link to StoreOnce Free Software. Select Customer Information. IMPORTANT: If you cut and paste the string, you must remove the product description from the beginning of the license string before applying the license to the StoreOnce appliance. 48 Expanding storage capacity, if supported49 2. Run the following StoreOnce CLI command to add each remote host, who may be on an IPv6 network: logs add recipient [port] 3. BB933A: HPE StoreOnce 5500 System Capacity Upgrade Enclosure with Disks Once all bays in the disk enclosure are full, it is possible to connect three further Capacity Upgrade Kits to your HPE StoreOnce 5500 System. However, if drivers are installed, the backup system can be viewed as a tape drive and medium changer from the Device Manager. Setting up StoreOnce alerts 4344 Setting up SNMP (Simple Network Management Protocol) Management Information handled by the StoreOnce System and they are called SEMI- MIB.mib and TRAP-DESTINATIONS-MIB.mib. The destination address. Two power cables to the server b. Select the event group(s) to be associated with the addresses (Alert, Warn, and/or Info), and click OK to update the list. IMPORTANT: If settings in the text file need to be restored, the manual restore should always be carried out before the automatic restore. Table Continued Complete network configuration 5556 Field name Protocol: IPv4 or IPv6 DNS Address 1/2/3 Description The radio button selected defines the Internet Protocol for the DNS servers. After installation, the StoreOnce System does not appear as a device under My Computer and it is not mapped to a drive letter. This defines whether the Port Set is VLAN enabled or not. An example product description is: #HPE StoreOnce 16Gb FC card LTU. In the Navigator select SNMP from Device Configuration. If not factory configured, the license entitlement will be delivered to the user via . NOTE: It is not possible to activate a new configuration if storage addition is in progress. Generating the SSL certificate 4748 Expanding storage capacity, if supported HPE StoreOnce 3500 Series The HPE StoreOnce 3500 Series does not support the addition of storage expansion enclosures. In Select Country, select the country where the StoreOnce appliance is located. Each additional FC or 10 GbE card must be licensed. The licenses are time limited to 90 days. Managing notifications Procedure 1. 12 SAS cabling for HPE StoreOnce 5500 Systems13 1 ilo IOM A IOM A IOM B IOM B D2 D PS2 PS Figure 1: Cabling between server, PCIe slot 2, and bundled enclosure From To Drawer 2, I/O module B, port 1 Drawer 1, I/O module B, port 2 Drawer 2, I/O module B, port 2 Drawer 2, I/O module B, port 2 Drawer 2, I/O module B, port 2 RAID card in PCI slot 2, port 1 Drawer 1, I/O module A, port 1 Drawer 1, I/O module A, port 1 Drawer 1, I/O module B, port 2 Drawer 2, I/O module B, port 2 Drawer 2, I/O module B, port 2 Drawer 2, I/O module B, port 2 Drawer 1, I/O module B, port 2 Drawer 2, I/O module B, port 2 Drawer 2, I/O module B, port 2 Drawer 1, I/O module B, port 2 Drawer updated and which updates have been completed. Perform a final check to ensure all cables are connected correctly and securely: NOTE: See Hardware overview reference section on page 66 for cabling examples. For example, once you have downloaded the MIBs associated with StoreOnce Systems, those MIBs are valid for all subsequent StoreOnce Systems and any earlier models that are monitored by the Network Management application. Documents can be downloaded from: Basic HPE StoreOnce 5500 System installation In this scenario, the disk enclosure bundled with the server is installed above the server is installed above the server and is connected to the RAID controller card in Slot 2. Click Validate the validate the server is installed above the server is installed network configuration. In the Navigator pane, expand Device Configuration and then click on License Management. HPE StoreOnce 5500 System Installation about planning for installation and future expansion. If required, check the VLAN Tagging Enable box and click OK. (The warranty product number is identical for each enclosure.) StoreOnce 5500 Systems: These systems have a separate entry for the server, where the warranty serial number covers both the server and the base storage. Power on all installed disk enclosures first. NOTE: See the HPE StoreOnce System User Guide for more information about managing external users. Information is required for all fields marked with an asterisk. For Windows systems the Microsoft iscsi initiator is required to connect to any Virtual Tape Libraries created on the StoreOnce System. You may need to hold down the power on button (1) on the rear of each unit for up to 30 seconds. Up to three further 60 TB Capacity Upgrades may be connected, and these may also be expanded using the 44 TB Capacity Upgrade kits. 1. For example: You may wish to use a bonded Port Set for the StoreOnce Management Console. This is the port location of the agent. Banner text must be ASCII text in particular, wider Unicode text is not permitted. Verifying the HPE StoreOnce hardware configuration Procedure The HPE StoreOnce System is supplied preconfigured according to the options specified at the time of order. it may also be necessary to configure the media servers that are backing up to the StoreOnce System. Log in to the StoreOnce CLI as an Admin user. The wizard displays every time you log on. If the NTP time is behind the currently configured time on the appliance, you will see a warning dialog box that reminds you to reboot the system time will move backward as a result of that command. Select License Management. Warranty serial number information present in the BIOS cannot be modified. The host machine requires a backup application to back up and restore data. When you connect subsequent StoreOnce Systems to the network, you only need to update the MIBs if they are later models. Generating a self-signed certificate Procedure 1. This generic certificate does not uniquely identify the appliance, and therefore is not considered to be secure by the web browser. Then exit. This will take effect from the next aggregation window. It may also be necessary to configure the remote host to receive the log events offload. NOTE: Data in flight encryption is intended to be used to secure links between data centers for StoreOnce VTL or NAS Replication or Low Bandwidth Catalyst Copy operations. The StoreOnce System Management GUI will prompt you to activate the new configuration immediately. Two 0.5 m SAS cables between the drawers on the disk enclosure NOTE: See Hardware overview reference section on page 66 for cabling examples. Connect the interlink cables between the two drawers in the new enclosure. SAS cable lengths for HPE StoreOnce Systems 1314 NOTE: To facilitate future expansion, HPE recommends using 2.0 m SAS cables to connect from the server to Drawer 2 of the disk enclosure. Expanding storage capacity, if supported on page Check software version. Bond modes are only appropriate if there is more than one port in the Port Set. 9 HPE StoreOnce 3500 Series...9 HPE StoreOnce 5100 System Verifying the HPE StoreOnce hardware configuration...10 Other sources of information for HPE StoreOnce 5500 Systems...12 Cabling considerations for HPE StoreOnce 5500 Systems...12 Basic HPE StoreOnce 5500 Systems installation SAS cable lengths for HPE StoreOnce Systems...13 Expansion installation scenarios Connecting enclosures Daisy chaining enclosures below the server...15 Up to four enclosures below the server...15 Up to four enclosures below the server Factory-integrated SAS cabling configuration Powering up and setting up ilo Powering up the HPE StoreOnce 5500 System...19 Powering up StoreOnce 3100, 3500 and 5100 Systems...20 ilo network name and ilo password Configuring ilo4, all systems...26 Logging in to the HPE StoreOnce System and checking status...27 Supported web browsers...27 Logging in to the HPE StoreOnce System and checking 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This guide assumes that the user has followed the instructions on the printed Start Here poster to install the HPE StoreOnce System in the Data Center and establish an initial 1 GbE network connection for the StoreOnce Management Console. Any additional storage and/or Optional Hardware PCIe cards are already installed. See Optional PCIe cards on page HPE StoreOnce Systems9 HPE StoreOnce 3100 System Table 3: HPE StoreOnce 3100 System Storage capacity Storage Expansion Options StoreOnce Optional Hardware 8 TB (4 x 2 TB disks) None Not supported HPE StoreOnce 3520 System Storage capacity Storage Expansion Options StoreOnce 001 Area (12 x 2 TB disks) Base storage = 12 TB (50% capacity) 24 TB (100% capacity) requires additional license Four PCIe slots are available for 10 GbE Network and FC PCIe cards. In the Navigator pane, click on License Management. Download the software release and follow the instructions in the accompanying Release Notes to install the software. installed above the server. Drivers for StoreOnce VTL devices on client servers To create Virtual Tape Devices on the StoreOnce System, two drivers are required on the client server: HP LTO Tape driver: allows your system to recognize the Ultrium tape devices created by the StoreOnce System. The configuration consists of two parts: 1. Banner text must not contain the backslash character \. 7. Setting up StoreOnce alerts 4142 The Events notified by page lists the event types that may be notified by and the addresses to which the notifications are sent. Any bond mode that has been defined. If validation is successful, you have two choices. Custom configurations can be edited and the checkbox is active to indicate their protection status. NOTE: The scan will fail if a firmware update is already in progress. There is a 1U support shelf underneath the lowest disk enclosure. You can add up to two NTP server configurations. Events notification events are listed under Events from the menu option in the Navigator. Additional configuration tasks 6162 NOTE: Data at rest and Data in flight encryption are the security features that can be applied using the Security license (which must be purchased and applied in the normal way). Confidential computer software. The second section provides reference information for the hardware and physical connection to Ethernet or Fibre Channel. Values are 0 to Click Generate. Setting up a login banner Procedure 1. Also, different sets of events can generate notifications to multiple addresses, a separate row is used to represent each event/ address pairing. For further information about setting up the Network Management application, refer to the MIB release notes and to the documentation supplied with the Network Management application. ilo network name and ilo password 2122 ilo is not required for daily management of the StoreOnce appliance but is useful in a lights-out data center situation. Acknowledgments Intel, Itanium, Pentium, Intel Inside, and the Intel Inside logo are trademarks of Intel Corporation in the United States and other countries. StoreOnce Optional Hardware licenses StoreOnce Optional Hardware licenses StoreOnce 500 System, HPE StoreOnce 500 System System. If the supplied NTP server address is reachable from the StoreOnce appliance, the address will be added to the NTP configuration and NTP time correction will be enabled. Table 8: setup parameters Name Enable or disabled. The drawings in Hardware overview reference section on page 66 illustrate storage options for each model and any cabling requirements. Select Entitlement. Capacity expansion is available by purchasing and applying a license for the remaining disk capacity. The Setup page includes information needed to route the (SMTP server), as well as the association of event types with destination addresses. Follow the instructions included in the download to install the plug-ins. HPE StoreOnce System Optional Hardware Installation and Configuration Guide (not relevant for 3100) This guide describes how to install and license StoreOnce Optional Hardware. ### END select IPv4 or IPv6 for any DNS servers and enter the required addresses in the appropriate format. This configuration, not per Port Set. Some editors display the product description on a separate line above the license string; others do not have a line break before the license string starts. Select the ilo 4 Configuration Utility. 10 HPE StoreOnce 5100 System11 HPE StoreOnce 5100 System11 HPE StoreOnce 5100 System Capacity Expansion Guide This guide explains how to connect additional storage enclosures to the HPE StoreOnce 5100 System, and how to license and expand the storage. Log in to the StoreOnce CLI. DHCP Subnets may support both IPv4 and IPv6 protocols. Enter and confirm the new password. 34 Security licenses 35 Applying a demo licenses allow you to try out StoreOnce Catalyst and Replication before paying for and applying the Full licenses. 72 Storage expansion73 ilo 4 PS Figure 18: Cabling showing five Capacity Upgrade Kits below the server 1 JBOD1 2 JBOD2 3 JBOD3 4 JBOD5 6 SAS connector on RAID controller on head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector on I/O module (SAS IN from head unit or previous expansion shelf) 8 connector o Hardware overview reference section 7374 Optional PCIe cards StoreOnce 35xx and 5xxx models StoreOnce and/or Fibre Channel PCIe cards for the StoreOnce models listed in the table below. It is good practice to either change the password after installation, or define an additional user with privileges that can be used when accessing ilo from a web browser. No processing or formatting of the text is carried out either at creation or during display. 28 Accessing the StoreOnce CLI29 Banner text that does not conform to the conditions will be rejected. Click Test to open the Test dialog. The file must already be accessing the StoreOnce CLI29 Banner text that does not conform to the conditions will be rejected. in the StoreOnce System s licenses directory. These scenarios are fully documented in the HPE StoreOnce 5500 System Utilities. It is important to fill in the information on this page because HPE Support will use it to provide feedback and instructions on resolving any issues. Click OK at the prompt and look at the pr 5100 System and HPE StoreOnce 5500 System: You have the same 1 GbE configuration possibilities as the HPE StoreOnce 3100 System, but you may also have 10 GbE Network cards installed. Table 7: Supported SAS cables Description Part Number Location for use 0.5 m Mini-HD SAS to Mini-HD SAS to Mini-HD SAS cables Description Part Number Location for use 0.5 m Mini-HD SAS to Mini-HD SAS cables Description Part Number Location for use 0.5 m Mini-HD SAS to Mini-HD SAS cables Description Part Number Location for use 0.5 m Mini-HD SAS to Mini-HD SAS t m Mini-HD SAS to Mini suitable generic driver and all backup applications provide their own changer drivers. A maximum of 20 characters is allowed. HPE does not anticipate the customer altering the layout of the factory integrated option. Complete network configuration 5758 NOTE: VLAN tagging is not supported with Bonding Mode At this point you may choose to define the Subnets for the Port Set or to create additional Port Sets by clicking on Add in the Port set section. On the Manage Notifications 43 a. You may wish to configure dual stack subnets (IPV4 with IPv6) Make sure you understand your hardware and networking environment before additional Port Sets by clicking on Add in the Port set section. creating the configuration. Up to three IPv4 and/or IPv6 DNS addresses may be defined. NOTE: If you use http: in the URL, you are automatically forwarded to the https: secure network connection. For this reason, the base system of one server and one disk enclosure is supplied with two 0.5 m cables and two 2.0 m cables. monitoring and console access via a web browser. #3 #1 #2 #4 Figure 2: Cabling showing two enclosures above and two enclosures below the server NOTE: Enclosure #3 are in Storage Cluster 1, connected to the RAID controller card in slot 2. Links to third-party websites take you outside the Hewlett Packard Enterprise website. A set of instructions in the form of a text file, devconfig.txt, for the user to manually restore some of the network and device management configuration settings that cannot be automatically restored. In the Capacity section there will be a value against the Unlicensed Capacitywith a link to Apply License. Device Configuration License Management to see what licenses have been applied. Once the license is applied, the storage is available for use. When checked, this box indicates that this is the Subnet that contains the default gateway. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein. The SMTP port for the outgoing mail server. Validating and activating the StoreOnce configuration, such as filezilla, copy the following files from /config to your local machine. If multiple ports are selected, the Bond Mode selection will be active. The following files from /config to your local machine. If multiple ports are selected, the Bond Mode selection will be active. made, the HPE StoreOnce Configuration Wizard is automatically displayed. IMPORTANT: All tasks described in this guide require an admin user logon. 44 TB capacity Upgrade Kit: this is a pack of 11 x 4 TB disks which are added to an enclosure. You must insert the SFP transceivers, if required, attach the appropriate cables and connect to the network or FC SAN. Part Number: BB Published: March 2017 Edition: 42 Notices The information contained herein is subject to change without notice. Run the StoreOnce CLI command, system set eventaggregation period 5 event aggregation period 5 event aggregation period 5. through the system's first-time installation of: Time and date User management License management Optional hardware Network configuration Wizard Procedure If you do not want to follow the steps in the wizard, click Discard. Remote Support via STaTS is a standard StoreOnce feature that is enabled and available to all users. system confidencechecker runtest all Confidence checks running. For the License Key, type in the word demo. Creating user accounts and changing default passwords 3940 4. Select the NTP server type: IPv4, IPv6, or Fully Qualified Domain Name b. Storage expansion steps with the HPE StoreOnce 5500 System are described in detail in the HPE StoreOnce 5500 System Capacity Upgrade Guide supplied as a printed document with the product. Please wait... Microsoft Corporation in the United States and/or other countries. Click Save. Capacity expansion license for HPE StoreOnce 3500 Series and HPE StoreOnce 5100 System The HPE StoreOnce 3100 System has 4 x 2 TB disks and does not support capacity expansion. b. More information \$ModLoad imudp \$UDPServerRun 514 # provides UDP syslog reception \$ModLoad imudp \$14 There are three are StoreOnce CLI logs commands to add, delete and view log recipients. Connect the second enclosure to the RAID controller card in slot 3 of the server. The warranty serial number covers both the server and the embedded disks. NOTE: When the firmware updates are initiated, the backup devices will be taken offline. With StoreOnce software version and later, there is a StoreOnce CLI command that allows the Admin user to set a time period during which login, logout and failed login events from a user will be taken offline. StoreOnce 3540 model is supplied with twelve 4 TB disks installed. The HPE Support person will check on the database portal that the event has been received and will also verify that warranty/serial/part numbers are valid and under warranty (or have valid care packs). network cards have been installed. 32 HPE StoreOnce Configuration Wizard33 Configurations. Hewlett Packard Enterprise strongly and restoring configurations. Hewlett Packard Enterprise strongly recommends that you register your device for remote support. If validation fails, correct errors. The StoreOnce 3540 model is supplied with twelve 2 TB disks installed. If there are any errors, the error message will guide you to the parts of the configuration that need correcting Adding a local user Procedure 1. Make sure you understand what is factory installed and configured on your system and any further cabling requirements. Enter a name for the ports to use. StoreOnce 5100 Systems: These systems have a separate entry for the server, where the warranty serial number covers both the server and the embedded disks. If the backup software is already installed, you may need to update manually the drivers after installing the StoreOnce 5100 System supports capacity expansion; up to five Capacity Upgrade Kits, BB916A, may be connected to the base system and each requires a license. The base configuration has a single power supply. If required for the network environment, check the Enable Authentication box and provide authentication name and password details. Click Add User. These additional PCIe cards may be pre-installed or supplied in separate boxes. The storage will not be licensed or expanded. See the StoreOnce System User Guide for more information about creating and configuring external users. Each physical Port Set may be configured with one Subnet that uses the IPv4 protocol and one Subnet that uses the IPv4 protocol. For information about using specific GUI pages to configure Remote Support, see the appropriate sections in the StoreOnce System user guide. Available ports depend upon the model of StoreOnce System and whether ports have already been assigned. The base configurations, your system may experience errors with the StoreOnce SAS check function that checks SAS cable integrity PS2 PS IOM A IOM A #1 IOM B IOM B IOM B IOM A IOM A #2 IOM B IOM A IOM A #2 IOM B IOM A IOM A #2 IOM B IOM A IOM A #4 IOM B IOM B Figure 4: Cabling showing four enclosures installed below the server NOTE: Enclosure #1 and Enclosures below the following conditions: 1. Two enclosures above and two enclosures below the server. For IPv4 Subnets, select the IPv4 button and provide the relevant details. Daisy chaining enclosures Procedure 1. Please refer to the StoreOnce TB and 60 TB Capacity Upgrade Kit Guide and the expansion enclosures for instructions. Defining a new remote host to receive StoreOnce audit log events 6364 Aggregating login event notifications Procedure The event logging component generates one event for each Logout, and two events for each failed Login attempt. Related reference Up to four enclosures below the server on page 15 Factory-integrated SAS cabling configuration on page 17 Connecting enclosures Procedure 1. On the SSL Certificate page, click Modify. Create the first Port Set and save the configuration 5354 Creating a new StoreOnce configuration and defining DNS servers Procedure 1. If configured in the factory for the full capacity of 48 TB (3540 model) or 24 TB (3520 model), all storage will already be licensed and is available for use without any further action. Disk enclosure(s) a. At this point a new configuration will be opened for you to edit. This is the contact information for the system administrator, which may be a name, address, or phone number. Some hardware products support optional PCI-E cards for 10 Gbit Ethernet. This defines the amount of data contained in an Ethernet frame, the default is 1500 bytes. Neither model supports additional storage disk packs or enclosures. the time zone Procedure There is not a default time zone set for the StoreOnce appliance. External Users: A user who belongs to an AD domain to which the StoreOnce 5500 System with five Capacity Upgrade disk packs will display a 1 x 44 TB license that covers 220 TB on the License Management page. On the Port Set bar click Add to create the first Port Set. A single event can generate a notification to multiple addresses. Select Network Options. 2. Click Device Configuration in the Navigator pane. The following example shows an HPE StoreOnce 5100 System which has been factory-licensed for a fullyexpanded storage capacity Upgrade enclosures. 60 TB Capacity Upgrade enclosures with base storage of 11 x 4 TB disks plus four hot plug disks. Select a User Type of Local. A success message is displayed. Contact HPE Support and ask to verify a remote support event has been received. Open the putty (or other ssh) application and login to the RAID controller. This is typically the network connect the first enclosure to the RAID controller. card in slot 2 of the server. This chapter is included specifically for the HPE StoreOnce 5500 System to ensure that users can verify SAS cabling against the drawings showing recommended cabling configurations. Depending upon your backup environment. Perform a final check to ensure all cables are connected correctly and securely: 2. Related concepts Optional PCIe cards on page 74 Related reference More about network configuration on page 77 Creating a StoreOnce custom network configuration on page 77 Creating a StoreOnce custom network configuration of the process that is valid for both the StoreOnce CLI. Allow non-v3 read requests This optional parameter can be provided during version 3 configuration. For IPv6 Subnets, select the IPv6 button and provide the relevant details. 24 Powering up and setting up ilo425 5. During this time the Current Configuration. When notification is disabled, the association between events and destination addresses remains valid, but the events do not produce . It is essential to maintain an active SAS connection throughout the expansion process. # Configuring media servers to use StoreOnce deduplication engine is embedded in the HPE Data Protector Media Agent. You may use Cut and Paste to copy it to a temporary file or save it to a.dat file. This optional device-specific parameter can be provided to an SNMP version 3 traps coming from the device. All other StoreOnce Systems described in this guide have a single RAID controller card and cabling is straightforward. The name must be unique; spaces and special characters are not permitted but underscore is allowed. You must click OK before you can enter your user name and password. Please refer to the StoreOnce System Linux and UNIX Configuration Guide for further information. Select the continent/region in which the StoreOnce appliance is located. Factory-integrated SAS cabling for HPE StoreOnce 5500 B IOM B IOM B IOM B IOM B IOM A #4 IOM B IOM Systems19 Powering up and setting up ilo4 Powering up the HPE StoreOnce 5500 System Procedure If the StoreOnce system has not yet been powered on, as described in the appropriate Start Here poster, or if you need to configure ilo 4 from a direct connection, perform the following steps. NOTE: If the ilo port is plugged into a network that provides DHCP, the acquired addresses will be shown here and you can connect to the network address in a web browser in order to configure ilo. Remember that: The cards installed in each slot are determined by your purchase order, so any illustrations are examples only. Refer to the StoreOnce System CLI Reference Guide for more information about using this command. Without these scripts enabled, some browser buttons will not display. Go to the HPE Licensing website. The sections in the User Guide also configure ilo after configure ilo after configuring the StoreOnce System.) 5 Log on to the StoreOnce Management Console and check system, storage and optional hardware status. An iscsi initiator may be hardware or software and should be running on each host. For many applications these are installed automatically during the software installation process. The Capacity Upgrade Kits must be connected to the correct HPE StoreOnce 5100 System in the recommended sequence. Validate the configuration. If not factory configured, the license entitlement will be delivered to the user via and the storage must be added to the RAID configuration. Before performing this step, check that there are no outstanding backup jobs pending. Setting up StoreOnce alerts on page Configure SNMP. The keystore should be backed up regularly and saved securely offsite in case the original keystore is corrupted. SFP+ transceivers are required with the FC cards and the 10 GbE SFP cards. An Apply Time Zone settings dialog will appear. For the purposes of this example, we shall continue to Subnet configuration. To find out what Plug-Ins are available and required go to A StoreOnce Catalyst license is required to use the Plug-ins. Configuring Remote Support on page Configure the network. This command will load all licenses found in the licenses found in the licenses directory. The user is also referred to the following sources of information: The HPE StoreOnce 5500 System Installation Planning and Preparation Guideprovides detailed information about choosing a suitable location for the HPE StoreOnce 5500 System, as well as size, weight and power specifications for various expansion options. On the Custom page, click on the New button. Refer to Hardware overview reference section on page 66 2 Make sure all reference section on page 66 2 item in the Navigator. This completes Remote Support via STaTS verification. You can then use the StoreOnce GUI to set up the system and, if you are using a Network Management application, such as Insight Remote Support, configure ilo. Saving the StoreOnce configuration and keystore Contents of the StoreOnce configuration file It is strongly recommended to save the configuration of the keystore. This will attempt to update all components that are in the state where there is an update recommended; it will not try to update components that do not need an update. Expansion installation scenarios are recommended for customers who self-install the HPE StoreOnce 5500 System into their own racks. Click Send Test Event on the Remote Support page and use the Events page to verify that the test event was sent. 8 HPE StoreOnce 3100 System... NOTE: There is no check that the NTP server is reachable after it is added to the configuration. This defines the SNMP Read Community string. Creating portsets Procedure 1. Make sure you have a note of the Node Lock Serial Number from the License Management page on the StoreOnce GUI. If you want to restrict read access, enter a string of up to 20 characters. 38 Setting time zone and configuring NTP server39 Creating user accounts and changing default passwords StoreOnce user accounts and changing at the same time while the system is powered on. It consists of blocks of text that may provide legal or other conditions that apply to users of the device. An optional address where the originated. Changing passwords for local users Procedure 1. 1 StoreOnce 3100, 3500, 5100, and 5500 System Installation and Configuration Guide Abstract This guide is for HPE StoreOnce System Administrators. A zip file, devconfig.zip, containing StoreOnce VTL, NAS, Catalyst, Replication and housekeeping functions. Using the StoreOnce GUI to configure NTP server Procedure The NTP server configuration provides the option of setting the time and date using one or more NTP servers. 50 StoreOnce 5500 System51 Checking for the latest software Checking the time and HPE StoreOnce 5100 System51 Checking for the latest software Checking the time and the system is running the latest software after installation. You can also set the local language to display the text within the StoreOnce GUI from the Login screen. 4. The storage expansion configuration will be shown. Valid license from Hewlett Packard Enterprise required for possession, use, or copying. Click Modify and enter technical contact details for the customer site. Powering up and setting up ilo4 1920 SID Powering up StoreOnce 3100, 3500 and 5100 Systems Procedure If the StoreOnce system has not yet been powered on, as described in the appropriate Start Here poster, or if you need to configure ilo 4 from a direct connection, perform the following steps. They should also be licensed and available for use. Save the configuration using the StoreOnce CLI command: config save devices 2. Complete network configuration on page Configuration address and a subject, then click OK. It is not necessary to fill an enclosure before adding the next. HPE StoreOnce System CLI Reference Guide This is the full reference guide for the SAS cabling when connecting additional enclosures. For the products described in this guide, this will report on any problems with the File System and external network connections. Create the required Subnets for each Port Set and save the configuration. 6. Click Proceed to display the recommended configuration steps and sequence. In the SNMP Agent Setup pane, click Modify. BB941A: HPE StoreOnce 5500 System (44 TB) Capacity Expansion kit is a pack of eleven 4 TB disks, which are added to the original disk enclosure in the sequence described in this guide. 46 Setting up SNMP (Simple Network Management GUI is accessed via the HTTPS protocol which requires the exchange of an SSL (Secure Sockets Layer) certificate to authenticate the connection between web browser and the StoreOnce appliance. Keyboard and monitor cables c. Update the existing system object identifier. Verify what network connections are required for your backup environment. The SNMP agent unique System Object ID. Boot up the StoreOnce System and watch the local console; the ilo4 IP addresses are shown (IPv4 and IPv6). Configuring licenses on page 33 7 Configuring licenses are shown (IPv4 and IPv6). page 28 The StoreOnce login banner is displayed whenever users log in, either to the StoreOnce CLI or through the StoreOnce GUI. Log in using your HP Passport users log in, either to the StoreOnce CLI or through the StoreOnce GUI. Log in using your HP Passport users log in, either to the StoreOnce CLI or through the StoreOnce GUI. enclosures below the server. All StoreOnce Systems described in this guide are supplied with a label that includes the ilo network name and ilo password. Command Successful. 52 Checking for the latest software53 Complete network configuration Initial StoreOnce network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 GbE network configuration that contains a single Port Set on a 1 c. This installation has specific shipping requirements to keep the mass of the rack as low as possible while in transit. HPE StoreOnce 5100 System front view 1 NIC status LED 2 Health LED 3 Power on/standby button and system power LED 4 UID button LED PS2 PS1 3 6 ilo Figure 17: HPE StoreOnce 5100 System rear view Storage expansion 7172 1 Slot 1, available for Optional Hardware 5 Slot 5, ava supply 1 (PS1) 11 Power supply 2 (PS2) 12 Video connector 13 1Gb RJ45 Port Gb RJ45 Port 1 (eth0) 17 ilo4 connector 18 USB connector 18 USB connector 18 USB connectors 19 Rear UID LED Storage expansion. ilo 4, press F9 in the ProLiant POST screen and proceed as described in Configuring ilo4, all systems on page Powering up HPE StoreOnce 3100 System 1 UID LED 2 NIC status LED 3 System health LED 4 Power LED and on/off button Figure 7: Powering up HPE StoreOnce 3100 System 1 UID LED 2 NIC status LED 3 System 1 UID LED 2 NIC status LED 3 System 1 UID LED 2 NIC status LED 3 System 1 UID LED 4 Power LED and on/off button Figure 7: Powering up HPE StoreOnce 3100 System 1 UID LED 2 NIC status LED 3 System 1 UID LED 4 Power LED and on/off button Figure 7: Powering up HPE StoreOnce 3100 System 1 UID LED 2 NIC status LED 3 System 1 UID LED 4 Power LED and on/off button Figure 7: Powering up HPE StoreOnce 3100 System 1 UID LED 4 Power LED Series and 5100 System 1 System health LED 2 Power LED and on/off button 3 NIC status LED 4 UID LED ilo network name and ilo password StoreOnce Systems are built on ProLiant server hardware and use the embedded Integrated Lights-Out 4 (ilo 4) management technology. Running a StoreOnce System confidence check Example It is good practice to use the StoreOnce CLI command, system confidencechecker at the end of installation to run a self-test report on the StoreOnce System. Immediately after installation, the administrator should change the default passwords and create additional user accounts, assigning permissions, as appropriate, 64 Aggregating login event notifications65 NOTE: Certain backup applications require their own drivers for both the tape device and medium changer. Go to the appropriate section. If additional storage enclosures have been installed, there will be a separate entry for each entry will have a unique warranty serial number. Click OK to apply the license. For more information about the information shown on the SNMP Trapsinks and SNMP Users tabs, see the Online Help or the user guide for your product. HPE StoreOnce 3100 System: You may wish to configure the remaining 1 GbE ports for dedicated backup and/or replication and StoreOnce Catalyst Copy. expanded using up to five of the BB941A expansion kits. Enter the required details and click OK. Choose an existing address from the drop-down menu and rhwn click Select to display it in the Update events for addresses field. The Config Description is optional. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a faster and more accurate resolution of any issues based on your product s service level. In the following example two 10 GbE SFP network and two 16Gb FC cards have been installed, licensed and validated. Additional configuration tasks on page Use the StoreOnce CLI to run a confidencecheck report on the system. Enter: 2. The following examples illustrate how to use the StoreOnce GUI to create and activate a custom network configuration. The StoreOnce 3520 model is supplied with twelve 2 TB disks installed. 30 Configuring Remote Support31 7. The fields are: Table 9: Events notified by parameters Name Severity Destination Description Severity of the event (INFO/WARN/ALERT). Make the required changes and click Finish to return to the wizard. The StoreOnce appliance by default will return a generic SSL certificate which is created when the system is manufactured. If you prefer to configure SNMP using StoreOnce CLI commands, refer to the StoreOnce CLI Reference Guide. Select No to delete your settings. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. The download includes release notes and documentation. If the value is yes, versions 1 and 2 are supported along with version 3. In the NTP Server Configuration title bar, select Add. Logging in to the HPE StoreOnce System and checking status 2728 b. IMPORTANT: Refer to the StoreOnce Optional Hardware Installation and Configuration Guide for detailed instructions about installation and configuration for detailed instructions about installation about installation about i required. To complete configuration of the storeOnce GUI to apply it. This will populate the firmware tabs. Run the StoreOnce GUI to apply it. This will populate the firmware tabs. Run the storeOnce GUI to apply it. Continue to work through the tasks shown in the wizard. If not, it will be necessary to locate the label on the top of the appliance in the data center. Click on the Show Port 1 d. This is the installation that is described in the printed HPE StoreOnce 5500 System Start Here poster, and is illustrated below. Select User Interface SSL Certificate from the Navigator. Click Add. Do not use to connect one disk enclosure to another. For the Input Type, select Key String. To download the MIBs, go to the HPE Support website at and search for your StoreOnce System. This checkbox is always greyed out for the Current and Factory Default configurations because they cannot be edited. Connect the IOM B modules in the two enclosures. If they are not, the StoreOnce 5100 System will not be edited. Connect the storage and make it available for use. Powering up and setting up ilo4 2526 6. This guide describes how to generate a self-signed certificate. Enter a new address directly into the Update events for addresses field. Saving the StoreOnce CLI may prefer to use the StoreOnce CLI command, net set wizard, as described in the StoreOnce Optional Hardware 24/48 TB (12 x 4 TB disks) Base storage = 24 TB (50% capacity) 48 TB (100% capacity) requires additional license Four PCIe slots are available for 10 GbE Network and FC PCIe cards. You may wish to configure VLAN subnets. Provide the default User Name and Password (Admin, admin). Or run system disable remoteeventsuppression to re-enable normal event notification once you have finished the software or firmware update. communities is on or off. HPE StoreOnce System Linux and UNIX configuration Guide This guide explains how to configure StoreOnce Systems. Make sure that you have downloaded the latest operating systems. Make sure that you have downloaded the latest operating system system. configuration tasks or click Discard. The MIBs are included under the MIB entry. 44 Setting up SNMP (Simple Network Management Protocol)45 4. The StoreOnce CLI command config save keystore that backs up the key store, also encrypts it, ensuring that it can only be decrypted by the StoreOnce System, should you need to restore it. For example: # logs add recipient UDP # logs add recipient tcp Many log programs will not require additional configuration on the target system to receive the log offload. Up to five 48 TB Capacity Upgrade Kits may be added to the base configuration. IMPORTANT: For detailed information about installing additional PCIe cards after initial delivery, see the StoreOnce Optional Hardware Installation and Configuration Guide. 40 Changing passwords for local users41 Setting up StoreOnce alerts setup page The Setup page The Setup page alerts or Information via . It does not support 10 GbE Network or Fibre Channel of Setup page alerts setup page and the current configuration for sending out event notifications which may be Warnings, Alerts or Information via . It does not support 10 GbE Network or Fibre Channel of Setup page and the current configuration for sending out event notifications which may be warnings, Alerts or Information via . It does not support 10 GbE Network or Fibre Channel of Setup page and the current configuration for sending out event notifications which may be warnings, Alerts or Information via . It does not support 10 GbE Network or Fibre Channel of Setup page and the current configuration for sending out event notifications which may be warnings, Alerts or Information via . It does not support 10 GbE Network or Fibre Channel of Setup page and the current configuration for sending out event notifications which may be warnings, Alerts or Information via . It does not support 10 GbE Network or Fibre Channel of Setup page and the current configuration for sending out event notifications which may be warnings, Alerts or Information via . It does not support 10 GbE Network or Fibre Channel of Setup page and the current configuration for sending out event notifications which may be warnings, Alerts or Information via . It does not support 10 GbE Network or Fibre Channel of Setup page and the current configuration for sending of Setup page and the current configuration for sending of Setup page and the current configuration for Setup page an connection. ilo is also useful for diagnosing hardware failures that prevent access to the appliance through the primary StoreOnce GUI or remote StoreOnce GUI or remote StoreOnce CLI interface. TIP: It is good practice to Save the network configuration at regular intervals. NOTE: Details for the Enterprise Server(the server that will receive the event messages) are provided by the StoreOnce System and should not be edited. The default is public. The HPE StoreOnce 3500 Series is supplied with 12 disks; two models are available, HPE StoreOnce 3520 System (12 x 2 TB disks). The label on the rear of the Capacity Upgrade Kit identifies the server to which it belongs and the sequence in which it should be installed. Decide on the event aggregation period which may be between 0 and 30 minutes. An Information dialog box will appear that tells you to click Scan for Storage. Click on StoreOnce in the Navigator and look at the Software Revision under System Information. No functionality is provided by this device and no driver is required. Verify that there is a license for the Capacity Upgrade Kit. Select the Port Set and click Add in the existing enclosure. If you choose not to follow one of the recommended configurations, your system may experience errors with the StoreOnce SAS check function that checks SAS cable integrity. Discover the StoreOnce System under the Network Management application. SNMP agents (running on a StoreOnce System to be added to the network, you must download the MIBs, Management Information Bases and register the MIBs with the Network Management application. Select the Storage Configuration tab. This page details of any licenses that have been already installed. Setting up a login banner 2930 Configuration tab. supported devices as part of your warranty or contractual support agreement. This shows the state of the agent (off, on). Enclosure #2 and Enclosure #2 and Enclosure #2 and Enclosure #4 are in Storage Cluster 2, connected to the RAID controller card in slot 3. For log programs, other than rsyslog, refer to the software vendor for other applications for any configuration details. Four power cables to the disk enclosure b. Hewlett Packard Enterprise has no control over and is not responsible for information outside the Hewlett Packard Enterprise website. If this parameter is not configured, only version 3 will be supported. It requires one 1U support shelf, which should be installed below the last enclosure. The system gives you the option of creating StoreOnce backup targets. Pre-installed Capacity licenses If capacity expansion has been ordered and pre-configured by the factory with the base system, the license will already have been applied. So, if required, it must be retrieved from the Microsoft website. Remote event suppression is automatically disabled after 24 hours or after a reboot. 8. The PCIe cards must be installed in the correct slot sequence. StoreOnce full license, you must redeem the license, search on the Product name and select Download Drivers and Software. See the StoreOnce TB Capacity Upgrade Kit Guide for further information. The following drawing illustrates a fully expanded StoreOnce 5100 System. If the host does not have an iscsi initiator, it will not be able to perform backups. Description This reflects the name of the configuration selected in the list. NOTE: For a Fibre Channel StoreOnce system, a new unknown device will be discovered in Device Manager. Note that this device will be replaced by the Catalyst Over Fibre Channel initiator device will be discovered in Device Manager. Note that this device will be replaced by the Catalyst Over Fibre Channel initiator device will be replaced by the Catalyst Over Fibre Channel initiator device will be discovered in Device Manager. entry with a unique warranty serial number. Only the first occurrence within the defined period will be logged. See Optional PCIe cards on page 74 for more information about optional hardware. If there are no DHCP assigned IP addresses, you can manually configure ilo using the local console. 36 Redeeming a license37 NOTE: For users who prefer to use the StoreOnce CLI, all licenses can be loaded with the single StoreOnce 5500 Systems on page 12 for cabling examples, HPE StoreOnce 3100 System The HPE StoreOnce 3100 System comprises a 1U 4 disk server, that provides four 1 GbE ports for connecting to an Ethernet network. Different length SAS cables (up to a maximum of 2 m) are available, but these must be ordered separately. IMPORTANT: When increasing storage capacity from 50% to 100%, the only installation and configuration task is to apply the license for the additional capacity. NOTE: The following example is generic; it is not intended to be product specific, merely to illustrate the overall procedure. The network mask The network prefix in CIDR format The domain name VLAN tag ID (2 to 4096) 2. The scan can take up to 5 minutes. This page will also identify any Capacity Upgrade Kits and Optional Hardware that has been installed and licensed. The iscsi initiator ships with later versions of Microsoft Windows, but not with Windows, but not with later versions of Microsoft Windows, but not with Windows 2003 or earlier. 74 Optional PCIe cards75 For connection to Ethernet, the 10 GbE network cards must be installed, starting with slot 1, in the slot sequence 1, 4, 5, 6. 26 Basic network configuration 27 Logging in to the HPE StoreOnce System and checking status Related concepts Configuring licenses on page 28 Supported web browsers The StoreOnce Management GUI is supported on the following web browsers: Internet Explorer 9, 10 and 11 (note that Internet Explorer 8 is not supported and some StoreOnce 5100 System and HPE StoreOnce 5500 System There are two scenarios: Scenario 1: You have received the StoreOnce 5100 System from the factory pre-configured with additional storage enclosures. The HPE StoreOnce 5500 System supports two models of capacity expansion. Capacity expansion license for StoreOnce 5500 This is storage that is additional to the base product. If the Port Set is VLAN enabled, it is possible to add a total of 128 IPv6 VLAN Subnets. Table Continued 58 Creating subnets59 Name IP address Default Subnet Network Mask (IPv4 only) Prefix (IPv6 only) Domain Name Description The IP address for the subnet, in the appropriate format for the protocol selected. c. Power on the StoreOnce System (the power button is on the front of the unit). Enter the User Name of the Local User, and select a User Role of user or admin. Checking for installed licenses Procedure 1. NOTE: In some cases, when the firmware update has completed, you will need to perform a cold boot. Refer to the HPE StoreOnce 5500 System Capacity Upgrade Guide for detailed step-by-step cabling instructions. To prevent this, you should go to the Remote Support pages on the StoreOnce Management GUI and either configure it, or select No Support, as appropriate. Log on as an Administrator and select User Management from the Device Configuration menu. See Configuration menu See Configuration menu. See Configuration menu. See Configuration menu. See Configuration menu. See Configuration menu See Configuration menu. See Configuration menu S System Table 2: HPE StoreOnce 5500 System Storage capacity Storage Expansion Options: Add up to five 44 TB Capacity Upgrade disk packs (containing eleven 4 TB disks) to each enclosure Add up to three 60 TB Capacity Upgrade disk enclosures (containing eleven 4 TB disks + 4 hot spare) Four PCIe slots are available for 10 GbE Network and FC PCIe cards. The base configuration for both models uses 50% of the available for 10 GbE Network and FC PCIe cards. reference section Optional hardware All models, apart from the HPE StoreOnce 3100 System provide four PCIe slots for the addition of StoreOnce 10 GbE Network Cards or StoreOnce StoreOnce Catalyst store. Refer to Windows documentation for more details. Configuring settings Procedure 1. If you do not configure Remote Support via STaTS, you will be prompted to do so every time you log onto the StoreOnce Management GUI. See Optional PCIe cards on page 74. NOTE: There are two types of users: Local Users: A user created solely on the StoreOnce System. These must be downloaded and registered with the Network Management application on the host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management application on the host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host, so that information from the StoreOnce System can be transmitted to and interpreted by the Network Management host. all services. Tape drivers can be installed from the HPE website for driver updates at hpesc. This facility to bundle multiple 44 TB Capacity Upgrade licenses is not available to the customer after installation. Other sources of information for HPE StoreOnce 5500 only: Review SAS cabling requirements. There is a 1U support shelf above the server to protect it from the weight of the disk enclosures. It defines how SCSI packets are translated to Ethernet packets and connects to the required devices. For a local user, you can modify the user role or the user password, or both. NOTE: The HPE StoreOnce 3100 System does not support the addition of PCIe cards PS2 PS1 3 6 ilo Figure 19: Rear view of HPE StoreOnce 5100 System, highlighting additional PCIe slots 1 Slot 1, populated with FC card 2 Slot 4, populated with FC card 2 Slot 4, populated with FC card 3 Slot 5, populated with FC card 2 Slot 4, populated with FC card 4 Slot 6, populated with FC card 4 Slot 6, populated with FC card 4 Slot 5, populated with FC card 4 Slot 6, populated with FC card 5 Slot 6, populated with FC card 4 Slot 6, populated with FC card 5 GbE cards Port numbering on PCI cards 7576 PS2 PS1 3 6 ilo Figure 21: FC cards 8 Gb FC card 16 Gb FC card 16 Gb FC card 1 Port 2 Port 3 6 ilo Figure 21: FC cards 8 Gb FC card 16 Gb FC

and licensing the cards. TIP: If configuring multiple VLANs, or reconfiguring a complex network, it may take several minutes for the configuration to activate. On the StoreOnce GUI select Events in the Navigator and go to the Settings tab. If the value is no, only version 3 is supported. NOTE: The Date Settings portion of the Time and Date page allows you to manually set the date and time of the appliance. If you are using IPv4 and IPv6 addressing, then DNS servers (one primary, and two backup servers if the primary is unavailable) may be configured for the StoreOnce System, which have IPv4 and/or IPv6 addresses. HPE StoreOnce System User Guide this guide contains detailed information about the StoreOnce Graphical User Interface (GUI) and troubleshooting information about the StoreOnce Graphical User Interface (GUI) and troubleshooting information. If the license fails, a dialog box will appear that shows error details. UNIX is a registered trademark of The Open Group.3 Contents Preparing for networks and Fibre Channel SANs. See also Optional PCIe cards on page Verify what storage is ready for use. If you wish to generate a certificate signing request see the StoreOnce Management Console displays the Login prompt. If additional disk packs have been installed, there will be a separate entry for each disk pack. Only those ports that are available are active for selection; others are greyed out if they are already in use. Enter the requested information. If the license is missing, see StoreOnce full licenses. All hardware produces have four 10 by the other performance of the Port Set.

updates are completed if a cold boot is required (a cold reboot is a physical power cycle of the appliance while waiting for 60 seconds before powering the appliance back up). Applying a full license Procedure 1. It assumes that the user has followed the instructions on the appropriate Start Here poster to create a basic network connection to the HPE StoreOnce System and checking status Procedure To log on to the StoreOnce System CLI Reference Guide for more information. The list will contain a list of continents to choose from. Logging in to the HPE StoreOnce System and checking status Procedure To log on to the StoreOnce System and checking status Procedure To log on the StoreOnce System and checking status Procedure To log on the StoreOnce System and checking status Procedure To log on the StoreOnce System and checking status Procedure To log on the StoreOnce System and checking status Procedure To log on the StoreOnce System and checking status Procedure To log on the Stor as the appliance. OST plug-in documents: Various guides are available describing how to configure backup applications for use with StoreOnce Catalyst. They should all display with a green and Running. There are three types of events that generate notifications, listed under the Severity column once they have been setup in Manage Notifications. The new SSL certificate will not take effect until the StoreOnce 5500 System and HPE StoreOnce 5100 System and HPE StoreOnce 5500 System is beyond the scope of this guide. When you log in to the StoreOnce 5100 System and HPE StoreOnce 5100 System the Network Management application for use with the StoreOnce 5500 Systems refer to SAS cabling for HPE StoreOnce 5500 Systems on page 12. HPE StoreOnce 5100 Systems on page 12. HPE StoreOnce 5500 Systems refer to SAS cabling for HPE StoreOnce 5100 Systems on page 12. HPE StoreOnce 5500 Systems on page 12. HPE StoreOnce 5500 Systems refer to SAS cabling for HPE StoreOnce 5500 Systems on page 12. HPE Store Storage capacity Storage Expansion Options StoreOnce Optional Hardware 48 TB (12 x 4 TB disks) Maximum capacity = 288 TB Up to five 48 TB (capacity Upgrade Kits may be connected to base unit, each requires a separate license Four PCIe slots are available for 10 GbE Network and FC PCIe cards. This ID is used by network management entities to determine the monitoring capabilities of a device. Check HPE Support to find out if a later software release is available at softwaredepot. At the prompts provide a User Name and Password (Admin, admin). 54 Creating a new StoreOnce configuration and defining DNS servers55 Table 11: Network Configuration IP protocol and DNS fields Field name Name of the configuration Protected DNS server details: These settings apply across all other settings. NOTE: See the StoreOnce System User Guide for more information about loading licenses from a file. However, you must provide the details for the proxy server that enables internet access for Remote Support. Server unit a. To view the Optional Hardware options that is currently installed: 1. Accessing the StoreOnce CLI Procedure The examples in this guide illustrate how to use the bottom half of the page to configuration tasks. Use the bottom half of the page to configuration tasks. PCIe cards on page 74 for more details. Add the chosen NTP server address into the Address field. Configuring SNMP on the StoreOnce GUI Procedure The default state at installation and after QR is off. devconfig .zip the StoreOnce System, encryption keys are created and are written to a keystore which may be managed locally on the StoreOnce System or externally using a Key Manager utility. NOTE: If there is an existing configuration that you wish to use as a template, select it from the Copy Existing drop-down list. Cabling diagrams for these systems are included in Hardware overview reference section on page 66. If there are many, click Update All. The default User Name and Password for this account is Admin, admin. This is the physical location of the StoreOnce appliance. See the StoreOnce CLI Reference Guide for more information about applying licenses from a DAT file. Field Name State City Organization unit address, or FODN State the appliance is located in City the appliance is located in Organization of the certificate requestor Organization unit of the certificate requestor of the cert address of the certificate requestor Country the appliance is located in Number of days valid Maximum number of days the certificate will remain valid. In the Modify SNMP Agent window, change the State to On and modify other parameters, as required. 7 Structure of the StoreOnce guide...7 Overview of StoreOnce configuration tasks... In order to use FQDNs Fully Qualified Domain Names rather than an IP address to access the StoreOnce System, the DNS server addresses that you provide should be able to resolve addresses for all configured subnets. Setting time zone and configured subnets and configured subnets are specified to enable Remote Event Suppression mode when upgrading firmware and software. The certificate is now stored locally on the system. The Power button, System Health and NIC status LEDs all show steady green when the StoreOnce System is powering up. Generating the SSL certificate on page If necessary, expand storage. Fibre Channel with StoreOnce Systems on page Complete configuration. Select Yes to apply your changes. The 1U shelf is located above the server to protect it from the weight of the disk enclosures. To prevent this happening, check the Do not show at next login box. Repeat until all the Subnets for the selected Port Set have been defined. However, all tasks may also be performed from the StoreOnce CLI, as described in the HPE StoreOnce 5500 Systems Cabling for HPE StoreOnce 5500 Systems Cabling considerations for HPE StoreOnce 5500 Systems The HPE StoreOnce 5500 System has two RAID controller cards and, in a multi-enclosure configuration, all disk enclosures must be connected to the correct RAID controller cards and, in a multi-enclosure configuration, all disk enclosures must be connected to the correct RAID controller cards and expanded ready for use. Make a note of the IP address details, which you will need to log into the StoreOnce System from a web browser. Daisy chain the fourth enclosure to the second enclosure, as required. See also Expanding storage capacity, if supported on page 48. The server element is used for OS disks only; base storage in the disk enclosure consists of 11 x 4 TB disks plus four hot plug disks. The HPE StoreOnce 5500 System supports two capacity expansion options. 56 Creating portsets57 Table 12: Network Configuration Port Set fields Field name Port Set Name Ports Bond mode VLAN Tagging Enable Frame size Description The name of the Port Set The ports that have been defined for use by the Port Set and their speed. For Linux and UNIX operating systems an iscsi initiator is embedded in the operating systems an iscsi initiator is embedded in the License Key box, type or paste the license string. The address from which the notification originates. Creating user accounts and changing default passwords on page 39 Table Continued Preparing for Basic Configuration 78 Task Refer to 9 Configure . Setting up SNMP (Simple Network Management Protocol) on page Apply the SSL certificate. The supplied SAS cable supports this configuration. The updated list is displayed almost immediately in the Events Notified by topic page. If configured in the factory for the full capacity of 48 TB (3520 model), all storage will already be licensed. Available options for network and Fibre Channel connectivity will depend upon the type of model. iscsi Initiator (StoreOnce VTL) iscsi is a protocol for sending SCSI commands via Ethernet. Other sources of information for HPE StoreOnce Start Here posters Quick Start installation posters are available from the HPE website at: HPE StoreOnce Start Here posters Quick Start installation posters are available for each model and describe how to quickly install the HPE StoreOnce System by connecting LAN Port 1 to a 1 GbE network. (There is no requirement to remove the product description that is displayed in quotes at the end of the string.) 5. Use this field to increase or decrease the value, which must be an integer between 1280 and IMPORTANT: Other devices on the network (clients and switches) must also be configured to enable Jumbo frames for transfer of frames larger than 1500 bytes to be possible and to avoid packets fragmenting or dropping. When you add an external user who is already a member of an existing AD group, you have the ability to assign this user to a different role than the group role. More about warranty details StoreOnce 3100 and 3500 Systems: These systems have a single entry. IMPORTANT: For ease of installation HPE recommends daisy chaining Capacity Upgrade Kits so that all enclosures are either above or below the server. It also includes detailed size, weight and power specifications. Basic network configuration If you have not already done so, run the basic network script net set address as described in the Start Here poster for your product, to configured manually by the user to run on startup. If configured in the factory for capacity expansion, all storage will already be licensed and available for use. This is done using StoreOnce CLI logs commands. There is no licensing requirement for backup to VTL or NAS share devices. In Select the appropriate time zone within the country you have chosen. Connect the IOM A modules in the two enclosures. No password is required for the external user because that is controlled via the AD Domain server. This is for information only; disk packs do not carry warranty columns will show Not Applicable). SAS cables click and lock into position when correctly inserted. However, if you are using the standard syslog linux deamon (rsyslog) to receive the logs, add the following to the /etc/rsyslog.conf file. Make the necessary changes, save them and click Validate again. A message is displayed warning the user that the existing certificate will be overwritten. Click the link to the first step. Look at the LEDs on the I/O modules and wait until the Green Status LED (3) remains on, and the Locate LED (2) and the Fault LED (4) are both off Power on the HPE StoreOnce 5500 System (the power button is on the front of the unit). StoreOnce CLI commands require an SSH terminal session on a machine that is on the same network as the StoreOnce appliance: ssh NOTE: StoreOnce CLI commands can also be run from a local console (Keyboard and Monitor) attached to the appliance, for example, if the network is not yet configured and will have a label in the format: JBOD # for . HPE StoreOnce 5100 System only: If an expansion enclosure has been installed, power on the enclosure first. Using Data In Flight Encryption for direct backup operations to the StoreOnce appliance over a local network is not supported due to the performance impact of the encryption. At this point you may decide to set up all required Port Set, or to continue to set up all required Port Set. In the Navigator, select Time and Date Search for StoreOnce in the Search Software Depot search box. Go to the Remote Support pages of the StoreOnce Management GUI. NOTE: With some versions of Windows the iscsi initiator service is not started by default. If storage has been pre-configured, the following prompt is displayed. Related concepts Configuring Remote Support on page 30 Viewing and upgrading firmware Procedure When subsequently adding storage to a StoreOnce 5500 or 5100 System, or adding 10 GbE Network or FC cards to a StoreOnce 5500, 5100 System, or adding 10 GbE Network or FC cards to a StoreOnce 5500, 5100 System or 3500 Series, it is also good practice to check for firmware updates before installing the storage or Optional Hardware. IMPORTANT: The web browser used to communicate with the StoreOnce System requires Active Scripting or JavaScript enabled. Power cable(s) Keyboard and monitor cables Network cable to ilo port Optional hardware, StoreOnce 5100 System only 2. This configuration provides easier Two enclosures above and two enclosures below the server 1516 ilo access to the server when cabling multiple enclosures. This may take several minutes to run. Guidelines are as follows. A Time Zone setting success dialog box will appear. These are 60 TB disk enclosures. Adobe and Acrobat are trademarks of Adobe Systems Incorporated. SNMP may be enabled and configured from the StoreOnce GUI or the StoreOnce CLI. When all updates are completed, a reboot may be required. It monitors your system and allows the system to proactively contact Hewlett Packard Enterprise if issues arise on the system. You will see a storage scan in progress message. If you save the LTU as a file, sftp it into the StoreOnce System's licenses directory. The first section is task based and describes how to log in to the StoreOnce GUI to complete basic configuration tasks. Look at the following pages to verify status information: a. Configure your network settings and press F10 to save. 3. Click Storage in the Navigator pane. Exit the StoreOnce CLI. Select the Software and driver downloads option and OS Independent for the operating system. In the confirmation dialog box, click OK. Replication: VTL and NAS replication: VTL and NAS replication: VTL and NAS replication requires a license on the target system. be edited. Register SEMI-MIB.mib and TRAP-DESTINATION-MIB within the base of MIBs supported by the Network Management application. Optional hardware Installation and Configuration Guide 3. Make the connection from the of the RAID controller to the newly added enclosure. as instructed on the License Entitlement Certificate. On the License Management page, click Add License. The preferred HPE Remote Support (STaTS), however Insight Remote Support is also available. Click Scan to perform a check on the currently installed firmware versions for all components associated to the selected node. The format of the address details is as appropriate for the protocol selected. 68 Storage expansion69 Figure 12: HPE StoreOnce 3100 System front view 1 Pull out label with serial number 2 USB 3.0 port 3 UID LED 4 NIC status LED 5 Health LED 6 Power on/standby button and system power LED Figure 13: HPE StoreOnce 3100 System rear view 1 Slot 1, RAID controller 2 Slot 2 (not used) 3 Slot 3 (not used) 4 Power supply 2 (optional, must be purchased) 5 Powe 3500 Series HPE StoreOnce 3500 Series 6970 Front and rear views Figure 14: HPE StoreOnce 3500 Series front view 1 NIC status LED 2 Health LED 3 Power on/standby button and system power LED 4 UID button LED PS2 PS1 3 6 ilo Figure 15: HPE StoreOnce 3500 Series 6970 Front and rear views Figure 14: HPE StoreOnce 3500 Series front view 1 NIC status LED 2 Health LED 3 Power on/standby button and system power LED 4 UID button LED PS2 PS1 3 6 ilo Figure 15: HPE StoreOnce 3500 Series front view 1 Slot 1, available for Optional Hardware 2 Slot 2, SAS expander card 3 Slot 3, RAID controller card 4 Slot 4, available for Optional Hardware 5 Slot 5, available for Optional Hardware 6 Slot 6, available for Optional Hardware 6 Slot 6, available for Optional Hardware 5 Slot 5, available for Optional Hardware 6 Slot 6, available for Optional Hardware 7 Optional Hardware 6 Slot 6, available for Optional Hardware 6 Slot 6, available for Optional Hardware 6 Slot 6, available for Optional Hardware 7 Optional Hardware 6 Slot 6, available for Optional Hardw connectors 17 Rear UID LED 70 Front and rear views71 Storage expansion The HPE StoreOnce 3500 Series does not support the additional enclosure are displayed without the warranty serial number or the warranty part number and this is a non-editable field.) More about warranty details 3132 HPE StoreOnce Configuration Wizard Purpose of the HPE StoreOnce Configuration Wizard When deploying or upgrading to StoreOnce GUI, the user must select whether to configure Remote Support or No Support. This device is required only to ensure that a Fibre Channel target exists as LUN 0 in the SAN. Setting up SNMP (Simple Network Management Protocol) 4546 Table 10: SNMP Agent configuration parameters Name System Contact System Contact System Object ID Engine ID Description This is corrective action. SAS cabling for HPE StoreOnce 5500 Systems on page 12 Powering up and setting up ilo4 on page 27 6 Configure licenses. Create a file containing the login text content and save it as a.txt file, for example:login banner.txt 2. The StoreOnce software verifies that the correct length SAS cables are being used. Ideally, the installer has made a note of this information, as recommended in Step 3 of the printed SAS cabling configuration There is a third option, the factory-integrated option, where the customer orders a system that is prebuilt by HPE into a rack. Target devices and Catalyst stores licenses StoreOnce Catalyst: StoreOnce Catalyst devices require a license for backup and for copy, so licenses must be installed on both origin and destination HPE StoreOnce Systems. 76 Viewing Optional Hardware configuration Consistent with FAR and , Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial licensed to the U.S. Government under vendor's standard commercial license. Enter a Config Name. Click OK. Scenario 2: You are adding one or more StoreOnce Capacity Upgrade Kits to an existing installation. Use sftp to copy the text file to the repository folder of the StoreOnce appliance. The StoreOnce System uses a secure network connection. If it passes, either activate immediately at the prompt. Click on the create button. You can either edit the configuration or create a new one to cater for the requirements of your networking environment. After you have run Scan or Scan All, components will automatically be selected for upgrade or downgrade. Contact HPE Support for cabling details, if necessary. Two default user accounts, one for each role, are created automatically when the system is installed Admin account. This account has permissions associated with an administrator who is responsible for configuring and managing the HPE StoreOnce System. Upon successful completion of the command, confirmation tasks described in this guide verify the hardware installation as follows: 1. HPE StoreOnce 5500 System Capacity Expansion Guide This guide explains how to add disk packs to a disk enclosure, how to connect additional storage enclosures to the HPE StoreOnce 5500 System, and how to license and expand the storage. Provide the Subnet details, and then click OK to finish. To provide the Subnet details, and then click OK to finish. above the server. If there are only one or two, click in the appropriate check box to select them and click Update Selected. The HPE StoreOnce Configuration Wizard is automatically displayed. You may also use the Fully Qualified Domain Name (FQDN). Creating subnets Procedure 1. Security features (Data at Rest Encryption, Data in Flight Encryption, and Secure Erase) require a Security license. The default is 2. Check the Advanced box to display additional, optional configuration tasks.

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