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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 3, 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 configured need to be able to resolve both IPv4 and IPv6 FQDNs. Up to three 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. 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 Basic Configuration... Go to Device Configuration and select Optional Hardware. Click OK to return to the License Management page. Or you can save it and activate it separately from the Network Configuration Custom page. See Hardware overview reference section on page 66 for drawings that identify port and slot locations for connecting to Ethernet networks and Fibre Channel SANs. See also Optional PCIe cards on page Verify what storage is available and that all storage is ready for use. If you wish to generate a certificate signing request see the StoreOnce System User Guide. A default subnet should be provided for both IPv4 and IPv6 networks. Refer to either the online help or the appropriate chapter in this guide for more information about individual tasks. 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 license on page 35 for information about applying licenses. All hardware products have four 1Gbit ports. Larger size frames, often referred to as "Jumbo" frames, can improve performance of the Port Set.

##### CONFIDENCE REPORT #####  
Product ID: HPE StoreOnce 3540 System Cluster S/N: XXXXXNNNNXX Version: xx.x Test Type: all ##### FILE SYSTEM REPORT ##### File System Check (RESULT) PASSED ##### INTERNAL NETWORK REPORT #####  
##### Internal Network Check is supported only on HP StoreOnce multinode products. 22 Configuring iio4, all systems23 3. Refer to the StoreOnce System CLI Reference Guide for more information about using them. A pop-up message will appear on your GUI screen after 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. No additional plug-ins are required. See 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 Management GUI, use any machine connected to the same network 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 appliance is rebooted. IMPORTANT: Storage expansion after installation with the HPE StoreOnce 5100 System and HPE StoreOnce 5500 System is beyond the scope of this guide. When you log in to the StoreOnce GUI, the login banner will be displayed on the Welcome page. To set up the Network Management application for use with the StoreOnce System: a. Select the user whose password you wish to change and click Modify. For HPE StoreOnce 5500 Systems refer to SAS cabling for HPE StoreOnce 5500 Systems on page 12. HPE StoreOnce 3100 System 910 HPE StoreOnce 5100 System Table 6: HPE StoreOnce 5100 System 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 StoreOnce GUI to carry out configuration tasks. Use the bottom half of the page to configure SNMP Trapsinks and SNMP Users. Click on StoreOnce Free Software to access the Plug-ins. See Optional 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 devconfig .txt The StoreOnce encryption keystore If you have installed the Security license and are applying encryption to devices on 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. See the HPE StoreOnce System User Guide for more information about applying licenses from a DAT file. Field Name State City Organization Organization unit address Country Description Name of the system, in the form of either IP Address, or FQDN State the appliance is located in City the appliance is located in Organization of the certificate requestor Organization unit of the certificate requestor 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 configuring NTP server on page 38 8 Configure users. Remote event reporting It is a good idea to enable Remote Event Suppression mode when upgrading firmware and software. The certificate is now stored locally on the system. The Power button LED flashes green during the power-on sequence, and 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 System CLI Reference Guide. Some cards also require SFP+ transceivers, which will be supplied with the kit. Testing Procedure 1. Preparing for Basic Configuration 1112 SAS 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 card at installation before further system configuration takes place. This means that it is licensed and expanded ready for use. 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 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 system. Powering up and setting up iio4 2324 4. For additional information, see the HPE StoreOnce 5500 System Capacity Upgrade Guide. 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 (3540 model) or 24 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 Systems The following documents 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 configure a static address for LAN port 1 (eth0). This component must be 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 Time Zone, 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 details (the 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 daemon (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 client application (freely available from the internet) and must be run from a 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. An message is sent only if notification is enabled on the Setup page. These are factory 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 Subnets for the Port Set, or to continue to set up all required Port Sets before defining Subnets for each 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 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 LAN port 1 Network cable to iio port Optional hardware, StoreOnce 3500 Series and StoreOnce 5100 System Capacity Upgrade Kits, 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 requires a license on the target system. Banner text length must be less than or equal to 10,240 characters. Most fields have default values that do not need to be edited. Register SEMI-MIB.mib and TRAP-DESTINATION-MIB within the base of MIBs supported by the Network Management application. Optional hardware see the StoreOnce Optional Hardware Installation and Configuration Guide 3. Make the connection from the of the RAID controller to the newly added enclosure. Obtain the unique LTU key as instructed on the License Entitlement Certificate. On the License Management page, click Add License. The preferred HPE Remote Support solution for StoreOnce products is Service Tools and Technical 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 Power supply 1 6 Video connector 7 1Gb RJ45 Port 4 8 1Gb RJ45 Port 3 9 1Gb RJ45 Port Gb RJ45 Port 1 (eth0) 11 iio4 connector 12 Serial connector 13 USB connectors HPE StoreOnce 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 rear 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 7 Optional serial port 8 Power supply 1 (PS1) 9 Power supply 2 (PS2) 10 Video connector 11 1Gb RJ45 Port Gb RJ45 Port Gb RJ45 Port Gb RJ45 Port 1 (eth0) 15 iio4 connector 16 USB connectors 17 Rear UID LED 70 Front and rear views71 Storage expansion The HPE StoreOnce 3500 Series does not support the addition of storage expansion enclosures. (Additional disk packs installed in 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 version or later, the first time a user logs in to the 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 description SNMP version State Port Encrypt Passwords and Communities System Contact System Location Read Community System Object ID Engine ID Description This is the description for the StoreOnce system configured for the agent. ### NOTE ##### For any warning or error messages in this report, please consult the troubleshooting section in the customer user guide and follow the steps to perform corrective action. SAS cabling for HPE StoreOnce 5500 Systems on page 12 Powering up and setting up iio4 on page 19 Logging in to the HPE StoreOnce System and checking status 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 Start Here guide. Factory-integrated 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 Items are 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 that the host has been added to the list of remote syslog recipients will be displayed. Before you start the basic configuration 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. Either click on one of the links or click OK to finish. To provide protection from the weight of the disk enclosures, the 1U support shelf is installed immediately 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 license Security: Security shelves (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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