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Storeonce 3620 user guide diagram pdf free pdf

The quota allows you to partition the physical capacity of the StoreOnce System between various users. Main menu (2). Using quotas and client permissions to control client access to Catalyst stores defines how much space a particular user can use on the StoreOnce System. IMPORTANT: HPE recommends that you use the backup application to clean up incomplete or orphaned items before retrying the job. 82 Editing StoreOnce Catalyst Fibre Channel backups. UNIX® is a registered trademark of The Open Group. 184 Security settings..... . StoreOnce Federations Expanded information about removing a StoreOnce system from a Federation. 12 Getting started Screens (4). Logical Write Throughput The rate that at which data was actually written. TIP: The more secure approach is to disable Public Access and instead assign individual client settings. identifier access. Client Address The IP address of the server that created the item. Opening these ports allows the StoreOnce Catalyst traffic to pass to and from the StoreOnce Systems. User Data Stored the item. from being exceeded. To open the System Management screen, click the change-system icon () in the upper left corner of the screen. The Federation Members and Leads. Size On Disk The physical disk space consumed on disk (actual size after deduplication). There is a need to create a federation that includes the three StoreOnce systems. Queued The date and time the job was put in the queue. Client Password Policy The client password policy can be either SHA-1 or SHA-256. To remedy, increase the quota or expire backups. Clicking the main menu icon exposes and hides the main menu. Cloud Bank Storage Cloud Service Provider Name of the Cloud Bank service provider. On the Federation Dashboard for System11, open the Add dialog. Once the lead receives the member data, the status will change. HPE strongly recommends using static IP addresses, rather than DHCP. An error message is also generated if the source item is modified while copying. Refer to the Quick Specs on104 Viewing VT replication slot mappings..... www.hpe.com for supported features for your model. 104 VT replication screens and properties.....108 Adding replication permissions for target VT libraries...... ..108 Creating replication 50 StoreOnce Catalyst data services Page 5 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: mappings for source VT libraries...... December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. On the Federation Dashboard for System1, open the Add dialog. a. StoreOnce Catalyst data services 49 Property Description Modified The date and time that the item in the Catalyst store was modified. In backups with high deduplication ratios, a logical data size quota can be exceeded before the Catalyst store prevents further backups. Property Description Status of the data job item, which may be: • Running: In progress • Completed: The item has completed successfully, this status does not mean the entire data job has completed, only the item, and does not reconcile with the backup application job completion status. Or, clicking the Warning status on the graphic opens the Catalyst Stores screen and displays only stores that have a Warning status. Continued StoreOnce Catalyst data services 33 Property Description Physical Storage Quota The quota for the backup infrastructure, the HPE StoreOnce Catalyst agent is automatically installed on the added server together with Veeam Data Mover.HPE StoreOnce appliance. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Licensed to the U.S. Government under vendor's standard commercial license. 199 Generating, downloading, and removing log200 Temporary support passwords.... service to back up a particular amount of user data. If encryption is licensed, shows as Enabled or Disabled. 22 Federations c. TIP: StoreOnce federations that allow multiple StoreOnce Systems to be managed from a single system. Getting started 11 Logging in to the StoreOnce Management Console Procedure 1. If the quota is enabled and the quota limit is reached, backups will fail to prevent the quota from being exceeded. For example, you may have unintentionally backed up confidential data and need make sure that it has been securely erased. The source is the StoreOnce System from which the data is being copied to this StoreOnce System. On the Catalyst Stores screen, expand the Actions menu and select Create. Ended Date and time that the data job ended. Copy Throughput The rate that at which data was actually copied. Always check www.hpe.com/info/storeonce/docs for the most current documentation, including localized versions (PDF) for your product. On the Catalyst Stores screen, click the store. For communicating with the HPE StoreOnce storage appliances, the gateway server must run a 64-bit Microsoft Windows version. When any job addresses the backup repository, Veeam Data Mover on the gateway server establishes a connection with Veeam Data Mover on the backup proxy, enabling efficient data transfer over LAN or WAN. The gateway server is selected when you assign a backup repository role to the HPE StoreOnce appliance. Using guotas and client permissions to control client access to Catalyst stores defines how much space a particular user can use on the StoreOnce System.61 Exporting encryption keys for Cloud Bank stores...... within the source item. 61 Editing Cloud Bank stores... .. 5650 Consists of a server (without data storage) and a storage enclosure containing fifteen 4 TB or 8 TB hard disks. To remedy, increase the quota or expire backups. The System Management screen displays a list of systems in the federation and their connection status. TIP: The System Management screen displays multiple systems only when you are logged in to the lead system of a StoreOnce federation. 119 NAS CIFS shares..... update system information, click the edit icon () on the System Information panel. Tasks targeted at different backup repositories on HPE StoreOnce working over Fibre Channel, there is a limitation on the number of connections from one host. If the quota is enabled and the quota limit is reached, backups will fail to prevent the quota from being exceeded. Removing systems from federation, you must remove all the member systems first. Data Copied The amount of data copied. Add System3 a. (This situation is unlikely to occur). The System Management screen displays the list of systems in the federation. 203 Adding SNMP trapsinks..... • To add a system to the federation, click the plus icon (+). To add the five other StoreOnce Systems in the regional group, repeat the following substeps: a. Procedure 1. Table Continued StoreOnce Catalyst data services 31 Property Description Logical Storage Quota The quota for the amount of data sent to the disk before deduplication. The StoreOnce Management Console Log In screen opens. 118 Tips for editing NAS shares......119 Deleting NAS Two external key manager products are supported: Micro Focus Enterprise Secure Key Manager and Gemalto SafeNet KeySecure. Secure Erase is available without a license. 213 Accessing updates...... .213 shares. Customer self repair. . On the Federation Management screen, Members tab, select the system. HPE recommends setting up a federation as a separate network. • A federation can have ..214 Remote support.. ..210 Password issues... only one lead system. Host The host IP address of the cloud storage. 209 Obtaining log collections. ...210 Reported capacity shows an unexpected drop..210 Restarting data services.. ..211 StoreOnce websites. ..212 Support and other resources..213 Accessing Hewlett Packard Enterprise ...27 Viewing StoreOnce Catalyst Browse to the lead system in the federation and log in. For example, clicking Data Services opens the Data Services screen. 27 Stores.. Support ...28 StoreOnce Catalyst stores screens and properties.....28 Creating StoreOnce Catalyst stores.....42 Editing StoreOnce Catalyst stores...... The following are high-level stores. step descriptions. Estimated Completion The estimated completion time, if the copy job is still running. • High: all data is sent from the media server and deduplicated on the StoreOnce System. There is a need to have two federations for managing systems and viewing aggregated information. This is the space consumed after deduplication. StoreOnce Catalyst data services 35 Catalyst Stores screen (individual store), Permissions tab Property Description Public Access (state of) Enabled or disabled. System3 is added to the federation, reporting to System1. 128 NAS shares replication overview...... Capacity efficiency terms Capacity Savings: The amount of capacity saved (as a percentage) by deduplicating the data. It is recommended that you use optimized job settings. 19 Viewing federation health... ...22 Selecting a system to view and manage Creating federations..21 Adding systems to federations... ..22 Removing systems from federations.. . HPE recommends removing the member and adding it back with the new, correct IP address. The Federation Management screen has tabs for Members and Leads. Using quotas and client permissions to control client access to the Catalyst store defines how much space a particular user can use on (federation)... the StoreOnce System. Logical Data Written The amount of user data that was written. The Secure Erase overwrites data to be deleted with a sequence of 0, 1 or pseudo random data. 50 StoreOnce Catalyst data services Page 2 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. Browse to the system that will be the lead system and log in. Description of the share (optional). IMPORTANT: When encrypting Catalyst stores, NAS shares, or VT libraries, HPE recommends backing up internal and external encryption key stores. Licensing • Is StoreOnce Gen4 licensing 13 StoreOnce Management Console supported browsers..... ..13 Using the StoreOnce First Time Setup wizard...... ...13 About StoreOnce Systems... ...15 StoreOnce hardware models...... Enter your user name and password and click Log In. • If you log in to a StoreOnce System that is a • The StoreOnce supported backup application has full visibility of all items and jobs on the StoreOnce System. If 79 Viewing StoreOnce Catalyst settings..... federation lead, the Federation Dashboard is displayed. 79 Viewing StoreOnce Catalyst Fibre Channel device settings..... necessary, multiple Catalyst stores may be created on the same StoreOnce system. If you plan to use HPE StoreOnce as a backup repository for other jobs, mind the following limitations. For details, see this Veeam KB article. Related TopicsOperational ModesHPE StoreOnce Supported FeaturesAdding Backup Repositories Page updated 11/26/2021 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. Size In Cloud Bank service provider. SSL Indicates whether encrypted communication with the Cloud Bank service provider is used. Storeo Catalyst data services 27 Viewing StoreOnce Catalyst stores Procedure 1. The right side of screens is the flyouts area. Table Continued StoreOnce Catalyst data services 37 Property Description Store Name The name of the Cloud Bank store on the source StoreOnce system. The client name and password are used to authenticate access to Catalyst stores. • Click the federation management edit icon () in the upper right corner of the screen. Create the federation of six regional group StoreOnce Systems 1. 5. When a Catalyst store reaches its quota, the status of the store changes to "Online - Critical." The Catalyst store status will change to "Fault." Restores from that store are permitted, but new backups will fail. b. The only warranties for Hewlett Packard Enterprise products and services. TIP: If you need capacity management, HPE recommends configuring StoreOnce supported backup applications that have quotas to reroute to another device or to postpone backups. Security Store Encrypted. More properties Status Information Information which explains the reason for the status that is reported. To open the Federation Management screen, click the manage-federation icon () in the upper right corner of the screen. One federation will include all 15 StoreOnce Systems. 163 Hardware settings.....164 Storage...... . When the quota is no longer met, the Catalyst store status and the overall Catalyst status will return to the "Running" state. On the Data Services screen, do one of the following: • To view all stores, click the title Catalyst Stores above the graphic. HPE recommends backing up the local key store and saving it securely offsite in case the original key store becomes corrupted. Total Bandwidth Saving The percentage of bandwidth saved. Source Address The IP address of the source server. Use the disk capacity upgrade kits to completely fill a capacity upgrad Catalyst item is updated at every 1 GB of physical data stored or when a Catalyst item is closed. Upgrade the capacity by purchasing the capacity upgrade kit which contains another set of six 4 TB hard disks. 64 Items..... . 50 StoreOnce Catalyst data services Page 12 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. The two federations can be created in any order. This will reduce the global deduplication of the StoreOnce system. If you plan to use HPE StoreOnce as a backup repository for Veeam Plug-in for Oracle RMAN or Veeam Plug-in for SAP HANA, the total number of stored files (data and metadata) must not exceed 3,000,000 per Catalyst store. ... Once you have filled all the bays in the original enclosure using the disk expansion kits, you can add capacity upgrade enclosures to your system. At any time, you can configure the StoreOnce System to use the local or external key manager. Member systems in 171 Adding, editing, deleting static routes.. a federation do not need to be able to communicate with other member systems. The System Dashboard screen summarizes the system properties on panels for Health Status, System Information, Data Services, Storage Utilisation, and Resources. 50 StoreOnce Catalyst data services Page 14 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce Systems. or StoreOnce System which ensures efficient use of the available bandwidth. • If you log in to a StoreOnce System that is not a federation lead, the System for the federation lead, the System 11 is chosen to be the lead system for the federation lead, the System 11 is chosen to be the lead system for the federation lead, the System 11 is chosen to be the lead system for the federation of six regional group StoreOnce Systems. On the Settings screen, click the change-system icon (). Using quotas and client permissions to control client access to the Catalyst store defines how much space a particular user can use on the StoreOnce System icon (). On the Cloud Bank store. StoreOnce System icon (). On the Cloud Bank store. HPE recommends enabling client access for increased data security. 140 Viewing replication bandwidth limits... backup application-integrated solution. 134 Creating replication mappings for source NAS shares... ..141 Bandwidth limit properties If you purchase the hardware after the initial system installation, you must obtain and install the license before using the optional hardware. Total Data Transferred The total amount of data (replication) 196 Data at Rest encryption guidelines. transferred in the job. The % bandwidth saving depends on whether the Catalyst store has been configured for source-side deduplication with a low-bandwidth transfer policy, or target-side deduplication with a high-bandwidth transfer policy. the client application that created the item. StoreOnce does not support Data In Flight Encryption for direct backup to StoreOnce Systems over a local network, due to performance impacts. Also called target-side deduplication. policy is most appropriate. Confidential computer software. You can use HPE StoreOnce storage appliances as backup repositories. To work with HPE StoreOnce Catalyst technology and two HPE StoreOnce components: HPE StoreOnce Catalyst agent. Getting started 13 Procedure 1. When the main menu is hidden, more of the viewing area is available for screens, menus, and dialogs that are normally hidden. For example: o StoreOnce Gen4 Catalyst and replication do not require licenses to use • StoreOnce Gen4 Secure Erase does not require a license to use • Do StoreOnce Gen4 Systems support HPE StoreOnce all-inclusive licensing? The Immutable Period begins when the item is tagged as Complete by the backup application. 200 Changing the temporary support password mode... . On the Federation Management screen, Lead tab, select the system. Table Continued StoreOnce Catalyst data services 41 Property Description Target Item on the StoreOnce System to which the dat is being copied. 137 Adding, editing, and deleting NAS NFS hosts. .138 Editing NAS CIFS Encryption Indicates whether the Catalyst store data is encrypted. 205 Editing and deleting remote logging servers...... settings. .205 Best practices..... .206 Data services best . More properties Created The date and time that the item in the Catalyst store was practices.206 StoreOnce Catalyst best practices...... created. System Serial Number The unique serial number generated automatically by the StoreOnce System. Applications with a better deduplication ratio can store more data. The local key manager is used unless the system has been configured to use an external key manager. On the main menu, select Data Services. To copy such files, use backup copy jobs or evacuate backups if you use a scale-out backup repository. You cannot use the HPE StoreOnce backup repository as a cloud repository. secondary target repository, meaning that it is ideally used as a target for backup copy jobs with enabled HPE Catalyst Copy.NoteDue to the limit on HPE Cloud Volumes Backup, the maximum length of backup chains (chains that contain one full backup and a set of subsequent incremental backups) on HPE Cloud Volumes Backup repositories is limited to 32 for backup copy jobs with enabled HPE Catalyst Copy. 50 StoreOnce Catalyst data services Transport Protocol Indicates whether the copy was performed using Fibre Channel, TCP- IP, or the StoreOnce Internal Network. If you want to reduce the load on the network between the source and target side, assign the gateway server role to a machine on the source side, closer to the backup proxy. Limitations for HPE StoreOnce storage appliances for NAS backup, mind the following recommendations for optimal performance: A StoreOnce system can have multiple Catalyst stores, and large backup loads (exceeding 1PB) should be spread across more than one Catalyst store on the same StoreOnce system. Do not include Catalyst stores in a SOBR intended for NAS backups. 119 NFS shares. . Tag List A list of tags or marks defined by the backup application that are The logical data size of a Catalyst item is updated at every 1 GB of physical data stored or when a Catalyst item is closed. Networking guidelines • HPE strongly recommends using static IP addresses, rather than DHCP, 3640 Consists of a server with twelve The access key (user name) of the cloud storage. For more information about transformation performance, see this Veeam blog post. TIP: If you are logged in to a federation lead system, the most recently viewed system dashboard is displayed. 182 User roles and types. .182 Adding, editing, and deleting users and 183 Adding directory servers. • HPE recommends using the backup application to delete data when using Secure Erase. A quota allows you to provide a service to back up a particular amount of user data. 85 Viewing VT library .92 Viewing VT libraries interface information .92 VT library interface device properties... ...92 Creating VT libraries. .94 Editing VI librarie .95 Tips for editing VT libraries. ..95 Deleting VT libraries. .96 VT library emulation types .97 Changing the number of VT library tape drives. .98 Viewing VT libraries cartridge library tape drives. .97 VT library cartridges.. .98 VT library cartridge properties 99 Creating VT library .98 Viewing VT libraries slot mappings detail ..99 Changing the number of VT library cartridge slots. information .209 NAS NFS stale handle error. .99 Editing VT library barcodes 208 NAS CIFS timeout issues.. cartridge managing system in a federation is called the federation lead system, and the other systems in the federation are called member systems. The Federation Dashboard screen on a lead system displays aggregated information about the federation. Transfer Policies Primary (Default) Transfer Policy The default transfer policy for the server. Table Continued StoreOnce Catalyst data services 39 Property Description Target Store Name The name of the target Catalyst store on the StoreOnce Systems and the lead system. • Copy jobs between StoreOnce Systems. 42 Deleting StoreOnce Catalyst An error message is also generated if the source item is modified while copying. 143 Editing replication maximum concurrent job settings... 50 StoreOnce Catalyst data services Page 15 HPF 23 Dashboards. StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System 50 StoreOnce Catalyst data services Page 19 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 157 Viewing the StoreOnce software version Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce Systems. If the quota is enabled and the quota limit is reached, backups will fail to prevent the quota from being exceeded. Table Continued 36 StoreOnce Catalyst data services Property Description A description A description A description A description of the Catalyst client (optional). Dedupe Ratio The ratio of duplicate data against new data identified in the data job. For this reason, to communicate with the HPE StoreOnce storage, you need to deploy a gateway server. Media servers can be configured individually to use the most efficient transfer policy. Member systems. The wizard also enables you to configure additional storage capacity that you might have installed. • Setting the System Date & Time. To add or remove columns, click the column selector icon (). 204 Testing SNMP agents. ..205 Remote Logging Server. ..205 Adding remote logging ...118 Editing NAS shares... 1. Therefore, it may have an impact on performance. 118 Creating NAS shares ... When a Catalyst store reaches its guota, the status of the store changes to "Online - Critical." The Catalyst store status will change to "Fault." Restores from that store are permitted, but new backups will fail. 4. And disabling Secure Erase it immediately afterward. The Data Services screen summarizes the data service categories. • Setting basic System Information such as the system name (host name) location, and contact information. The Data Immutability feature prevents the backup application from modifying or deleting StoreOnce Catalyst items during the Immutable Period. For a list of StoreOnce Support Matrix StoreOnce Support Matrix. The dialog will close and a federation will be created. Log in to the lead system in the federation. This is the space consumed after deduplication. If you do not see the main menu, click the main menu icon (1) to expose it. 191 Renewing External Key Manager certificates. Secure Erase can only be enabled after the StoreOnce Catalyst store. VT library, or NAS share is created. 24 Viewing federation dashboards.24 Capacity efficiency terms. . 185 Certificates... ..185 Certificate Authority Source Item Last Modified The date and time that the source item was last modified. The client name is defined in the StoreOnce supported backup application. 59 Connecting Cloud Bank .185 Viewing security certificates (CA). .60 Deleting Cloud Bank stores. ..60 Detaching Cloud Bank stores.. ..61 Disconnecting Cloud Bank stores.. No. You must first stores create a new target device on the target StoreOnce System, and then grant permission to source StoreOnce Systems to replicate to the target device. 50 StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce Systems. Clone Duration The length of time that data was being cloned. Transfer Policies Primary (Default) Transfer Policy The default transfer policy for the server. Data in Flight Encryption encrypts the data traffic to all the Catalyst stores using that IP connection. On the main menu, select Federation Dashboard. If the quota is enabled, and the quota is enabled, and the quota is enabled, and the quota is enabled. enabled, Data at Rest Encryption protects data at rest on a stolen, discarded, or replaced disk from forensic attack. The following are high-level step descriptions for creating the two federations. After the grace period ends, the Immutable Period begins. 77 StoreOnce Catalyst Fibre Channel number of devices per login. Getting started What's new in HPE StoreOnce Systems 4.1.1 HPE StoreOnce Systems 4.1.1 includes the following new or enhanced features, compared to 4.1.0. General • A new Resources tile is added to the System Dashboard. Size on Disk The actual size used on disk after deduplication. 50 StoreOnce Catalyst data services Page 7 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. This amount reconciles with information in the backup application log. Viewing federation members Procedure 1. 108 Editing replication mappings for source VT libraries. . Bucket Name The bucket name of the cloud storage. Due to this limit, the maximum length of backup chains (chains that contain one full backup and a incremental backups) on HPE StoreOnce is also limited and depends on the particular storage model (see the following table). ProductMaximum number of restore points per backup chainVSAVSA Gen37VSA Gen47 to 14 (for version 4.1.1 varies depending on the amount of available memory). 290014450014470014490028650028 (per node)Proliant Gen931007350014510021550035660042 (per node)Proliant Gen10362014364014520028525028565042 Several Backup Repositories on HPE StoreOnceYou can configure several backup repositories on one HPE StoreOnceYou can configure several backup repositories on HPE StoreOnc nd the following: If you configure several backup repositories on HPE StoreOnce and add them as extents to a scale-out backup repository, make sure that all backup files from one backup chain are stored on one extent. StoreOnce Management Console supported browsers For the most current compatibility information including browser versions, see the HPE StoreOnce Support Matrix. Write Duration The length of time that data was written. 50 StoreOnce Catalyst data services Page 3 HPE StoreOnce Catalyst data services Page 3 HPE StoreOnce Support Matrix. Write Duration The length of time that data was written. 50 StoreOnce Catalyst data services Page 3 HPE StoreOnce Support Matrix. is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. Started Date and time that the data job started. 27 About StoreOnce Catalyst. If you need capacity management, HPE recommends configuring backup applications that have quotas to reroute to another device or to postpone backups. At that point, the federation will consist of a lead system and the one member system. While viewing a screen, click the change-system icon (). Number of Catalyst Items The number of items in the Catalyst store. On the Add dialog, enter the system address and administrator credentials for System2. In this example, the federation of all 15 systems is created first. The HPE StoreOnce appliance is an HPE StoreOnce storage system on which Catalyst stores are created. HPE StoreOnce appliance is an HPE StoreOnce appliance is an HPE StoreOnce application of all 15 systems. Veeam Backup & Replication uses two Data Movers that are responsible for data processing and transfer: Veeam Data Mover on the backup proxyVeeam Data Mover. You may need to revise rotation and retention policies to ensure that the data is expired. 202 Editing .202 Adding SMTP subscriptions. . • Cancelled: The Status Information provides more details. • Low: the media server deduplicates the data and sends only unique data. About StoreOnce Catalyst StoreOnce Catalyst is a SMTP settings StoreOnce function that allows StoreOnce supported backup applications to: • Back up data to a target store on the StoreOnce System. 134 Editing replication mappings for source NAS shares. Benefits of StoreOnce Catalyst • The StoreOnce supported backup application is in full control of data for the full life cycle of the backup data. If backup files from one backup chain are stored to different extents, the performance of transformation processes will be lower. The quota allows you to partition the physical capacity of the StoreOnce System between various users. Java® and Oracle® are registered trademarks of Oracle and/or its affiliates. 180 User management If you connect several backup repositories to one gateway, backup repositories will compete for connections. Deduplication on HPE StoreOnce works within the limits of one object store. If your VMs contain similar data, it is recommended to create backup repositories on a single HPE StoreOnce Catalysis Store. If the Security license is already applied, you can enable Data at Rest Encryption when creating a StoreOnce Catalyst store, VT library, and NAS share. On the screen for the Catalyst store, VT library, and NAS share. When Secure Erase is enabled (for Catalyst stores, VT libraries, or NAS shares), data is securely deleted. Deduplication Ratio The deduplication ratio achieved on the ..145 Event history properties. stores. 145 Viewing replication event history data on the Catalyst store. 201 Exporting temporary support password ciphertext. 201 Changing temporary support password ciphertext. .201 Notification settings ...202 26 StoreOnce Catalyst data services. .202 Viewing email alerts Notifications. 65 Backup/restore and copy sessions physical data size quota, which updates more frequently, is not affected. Browse to a lead system in the federation and log in. The physical data size quota, which updates more frequently, is not affected. Yes. 73 Viewing StoreOnce Catalyst Fibre Channel device settings 40 StoreOnce Catalyst data services Property Description Status The status of the outbound copy job, which may be Queued, Paused, Running, Cancelled, or Completed. 214 Warranty information. 215 Documentation • Are HPE Cloud Bank Storage licensing and Encryption licensing part of all-inclusive licensing? Catalyst Stores screen (individual store), Outbound Copy tab TIP: • Columns for the most often viewed properties are shown by default. The Add system to federation dialog opens About StoreOnce Systems 15 Security features The StoreOnce System offers the security features of Data at Rest Encryption, Data in Flight Encryption, Data in Flight Encryption, and Secure Erase. Also called source-side deduplication. 32 StoreOnce Catalyst data services11 FAQ.. . 79 Bandwidth limits (StoreOnce Catalyst store. Contents Getting started Catalyst) .79 Adding StoreOnce Catalyst clients to StoreOnce Systems.. ..82 Configuring StoreOnce Catalyst proxy server settings. . 147 Viewing replication partner systems. The network can be a VLAN network, a physical-port network, or mixed. Table Continued 44 StoreOnce Catalyst data services Property Description Logical Storage Quota The quota for the amount of data sent to the disk before deduplication. The System Management screen opens propertie If the quota is enabled and the quota limit is reached, backups will fail to prevent the quota from being exceeded. 138 Editing NAS NFS settings (browsability). . For example, clicking the title Data Services opens the Data Services screen. Optional hardware You can add the following optional hardware to • Deduplication Ratio: The total amount of data written by the backup application (before deduplication) divided by the actual capacity used after deduplication. Cloud Bank stores Viewing Cloud Bank stores Procedure 1. 150 Reports. 152 Reports . This rate is typically less than the theoretical maximum bandwidth. 146 Clearing replication events... ..147 Editing replication out of sync notification. TIP: If a StoreOnce System has already been set up, its First Time Setup wizard is not displayed. • New information added for configuring a directory server and accepting a Trust Certificate is used. Using quotas and client permissions to control client access to Catalyst stores defines how much space a particular user can use on the StoreOnce System. Learn more: Adding systems to federations on page 22 Adding systems to federation. You can add systems to federations You can add systems to federation. or instruct Veeam Backup & Replication to select it automatically. TipFor work with HPE StoreOnce, Veeam Backup & Replication uses the Catalyst agent installed on the gateway server. 175 Pinging systems. .176 Using .176 7 Integrated Lights Out (iLO)... • Before you create a federation, determine the StoreOnce System that will be the lead system and the systems that will be members. • Address Inconsistent: The IP address ber uses for the federation connection has changed since it became a federation member. TIP: If you need capacity management, HPE recommends configuring backups. • There is no enforced limit on the number of StoreOnce Catalyst items within a store IMPORTANT: Data in Flight Encryption is not supported for IPv6 subnets. Learn more: NAS shares replication overview on page 103. • Internet Explorer • Mozilla Firefox • Google Chrome Using the StoreOnce First Time Setup wizard The StoreOnce First Time Setup wizard OK. Warning, Critical. guides you through the steps to set up a recently installed StoreOnce System. Several screens include clickable panels that provide quick access for viewing information and using action dialogs. Work with the backup application to trigger the Secure Erase, for example by forcing the format of a VT library cartridge. 78 Editing StoreOnce Catalyst Logical Data Cloned The amount of data that was cloned. 50 StoreOnce Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5200, 5250, and 5650 Systems User Catalyst data services Page 6 HPE StoreOnce 3620, 3640, 5200, 5 document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. The physical data size quota, which updates more frequently, is not affected. All target details are specified by the backup application when the outbound copy job is created. You ove the lead system from a federation from a member system. Or, you can add systems later. IMPORTANT: • Secure Erase increases system overhead and reduces performance. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein. The sequence depends on the number of overwrite HCP is used, and IP addresses change, the trust relationships between systems will fail. On the Data Services screen, click the title Catalyst Stores above the graphic. 144 Event history (replication)... . If an item references a data chunk that is not marked for Secure Erase, the referenced data chunk will not be erased. Learn more: About federations on page 18. • It is not a requirement that member system information on page 25. To see a list of systems in the federation, click the change-system icon () in the upper left corner of the screen. • You can click the hyperlinked panel titles to display more information. This rate is typically less that the read bandwidth rating. Using the backup application will ensure integrity with the backup application catalog. Browse to System 1, the intended lead system for the federation of all 15 StoreOnce Systems, and log in. 127 Replicating Cloud Bank Stores screen (individual store), Items tab TIP: • Columns for the most often viewed properties are shown by default. 3. 109 Editing replication public access for target VT libraries. NAS share .109 Editing replication slot mappings for source VT Each kit containing twelve 4 TB hard disks. There are three status options that are specific to federation members: 20 Federations • Unreachable: There is an issue with the member system, and it cannot send status .110 Deleting replication mappings for source VT libraries. matches the source item data size. Tag List A list of tags or marks defined by the backup application that are used to filter items. 128 Restarting NAS share replication jobs.. .. To remedy, increase the guota or expire backups. When the guota is no longer status and the overall Catalyst status will return to the "Running" state. User Data Stored The amount of data that you have backed up, reconciled with the logical data recorded on the StoreOnce supported backup application. The default is 30. • Insufficient disk space: It will be necessary to clear some disk space or add storage. Browse to the StoreOnce system. About StoreOnce Systems 17 Federations About federations StoreOnce federations StoreOnce systems from failing unexpectedly. 50 StoreOnce Catalyst data services Page 10 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce Systems. Total Bandwidth The theoretical maximum rate that data could be System selector (3). If encryption is licensed, shows as Enabled or Disabled. Do not leave Secure Erase enabled for long periods of time. Each tab shows a list of systems and their connection status. No. • copied without regard to practical considerations, 183 Removing directory servers. Does StoreOnce Gen4 support creating new replication target devices (NAS share or VT library) from a source StoreOnce System? The data can be moving between two StoreOnce Systems over a WAN. 79 StoreOnce Catalyst settings. Table Continued StoreOnce Catalyst data services 45 Property Description Size in Cloud The size of the Catalyst store on the Cloud Bank service provider. For more information, see Per-Machine Backup Files. We recommend against enabling encryption for the jobs targeted at the deduplication storage appliance. and displays only stores that have a Warning status. 199 8 Viewing log collections. For example, clicking the Catalyst Stores title above the graphic opens the Catalyst Stores screen and displays all stores. Write Bandwidth The theoretical maximum rate that data could be written, without regard to practical considerations. Do one of the following: • On the main menu, select System Dashboard, and then click the edit icon () on the System Information panel. Upgrade the capacity by purchasing up to five capacity upgrade enclosure kits. 143 Blackout windows (replication). TIP: If you need capacity management, HPE recommends configuring backup applications that have quotas to reroute to another device or to postpone backups. To see a list of only the member systems, or to add and remove member systems from the federation, Viewing replication blackout windows click the manage-federation icon () in the upper right corner of the screen. 63 Deleting StoreOnce Catalyst clients for StoreOnce Systems.. .. If the quota is enabled, and the quota limit is reached, backups will fail to prevent the quota from being exceeded. d. 50 StoreOnce Catalyst data services Page 13 HPE StoreOnce 3620 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. 62 Clients63 Adding StoreOnce Catalyst client access for StoreOnce Catalyst stores.... ...166 StoreOnce networking features overview..... . Source Item Size The size of the source item. However, StoreOnce 165 Locating storage components... administrators can still delete the store through the StoreOnce System. You can use the Settings menu to view and change data services settings, rather than DHCP. When enabled, Data in Flight Encryption protects in-transit data from attack using the IPsec protocol. You can also view and edit optional information such as a contact name, phone number, and email address. Panels (6). Client Access (state) Enabled or disabled. • To customize which tiles are displayed on the dashboard, click the view options icon (). For example, if a logical data quota size is set to 1 TB and the backup has a deduplication ratio of 10:1, the logical data size quota can be exceeded by 10 GB. 155 Restarting and shutting down StoreOnce systems.... ...155 Upgrade overview.... ..155 Upgrading StoreOnce In this example System2 is added.) a. 5250 Consists of a server (without data storage) and a storage enclosure containing fifteen 4 TB or 8 TB hard disks. StoreOnce Catalyst stores screens and properties Catalyst Stores screen (all storage) TIP: In the list view, columns for the most Systems. often viewed properties are shown by default. These models only support StoreOnce software version 4.1 and later. A backup job can span multiple items. The federation health is summarized in the Health Status panel. Click Force Remove to complete the action. Once enabled, encryption is automatically performed on the data before it gets written to disk. • Configuring Storage. • If StoreOnce Catalyst device types are used, space reclamation is more automated and easier to implement from within the Administrator role can delete individual items. While the member can talk to the lead, the lead cannot talk to the member. c. 128 NAS replication 74 StoreOnce Catalyst Fibre Channel settings and properties...... 177 Viewing iLO configurations... ...177 Editing iLO . This feature allows secure erasure of data that was backed up as part of a regular backup job. Selecting a system to view and manage (federation) If you are logged in to a StoreOnce federation lead system, you can select any member system to view and manage. All item names configurations are defined by the StoreOnce supported backup application. Each kit containing twelve 4 TB hard disks. Data in Flight Encryption Data in Flight Encr readded to the federation. A second federation is an overlapping federation that will include six regional group StoreOnce Systems. Item The name of the item within the data job. Encryption cannot be disabled once it is configured. Estimated Time After a Connect action is started, this property shows the estimated time until the Cloud Bank store will be reconnected. Each data job can have multiple items. To remove a member system, do the following: a. 152 Report content categories.... ...152 Viewing online reports.. ..153 6 Event . 83 Pausing and resuming outbound copy sessions... .84 VT libraries and multiple Fibre ..154 Viewing event logs..84 4 VT Libraries screens and properties... Channel ports..... ...84 VT libraries.. ...84 Viewing VT libraries... .. The setup steps include: • Setting the Administrator Password. 190 Generating External Key Manager certificate signing requests... . () Acknowledgments Intel®, Itanium®, Pentium®, Xeon®, Intel Inside®, and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. 68 Catalyst stores copy68 Comparing StoreOnce Catalyst backup/restore sessions.....72 Canceling StoreOnce Catalyst copy sessions..... 5200 Consists of a server (without data storage) and a storage enclosure containing twelve 4 TB hard disks. properties. Many screens include menu icons (). Shows as Not Licensed if there is no encryption license on the StoreOnce System. However, you can enforce the transfer policies to the same value. The name is created by the StoreOnce System application. Deduplication may occur on the media server, backup/database server, or StoreOnce System to ensure efficient use of the available bandwidth. Once you enable Secure Erase, all data written to disk will be securely erased upon data deletion. 43 3 Cloud Bank stores screens and properties.. . Viewing federation dashboards TIP: The Federation Dashboard screen displays the aggregated properties of a federation only when you are logged in to a federation lead system. 196 Support settings. ...198 Remote Support.. . However, the network route between federation lead and members must be robust. Size on Disk The support.. .198 Sending test events... size of the Catalyst store on the StoreOnce System. Cloud Bank Stores screen (individual store), Permissions tab Property Description Public Access (state of) Enabled or disabled. • Size on Disk: The amount of disk space used to store all the deduplicated data. 42 StoreOnce Catalyst data services 3. Shows as None or the number of Secure Erase passes. Copy History The number of days that the history of the copy job is saved. TIP: This information is useful if you need to check whether the source item might have been modified during the copy attempt. Links to third-party websites take you outside the Hewlett Packard Enterprise website. Create the federation of all 15 StoreOnce Systems 1. Status The status of the Cloud Bank store. You cannot use a Fully Qualified Domain Name (FQDN). 147 Partner systems (replication).. .. The name of the system that is being viewed and managed appears under the screen names. Table Continued 48 StoreOnce Catalyst data services Property Description Secondary Transfer Policy Generally, the opposite of the primary transfer policy so the media server can determine which policy is most appropriate. 103 Viewing VT replication mappings... . Dashboards 25 Data services overview Viewing data services Procedure 1. Logical Clone Throughput The rate at which data was cloned. • To view the health of federation systems that have a specific status, click the status on the graphic or legend. For example, there is a network problem or the system is powered off. attractive alternative to using the replication function on the StoreOnce System. Editing system information You can edit the system name. The logical data stored or when a Catalyst item is closed. For example, if a logical data guota size is set to 1 TB and the backup has a deduplication ratio of 10:1, the logical data size guota can be exceeded by 10 GB. 15 Optional hardware. ...16 Federations... ..18 About . Secure Erase Mode The availability of HPE Secure Erase. Many flyouts include Learn more links. Table Continued 28 StoreOnce Catalyst data services Property federations... Description Physical Storage Quota The quota for the amount of data written to disk after deduplication. 192 Withdrawing from an External Key Manager... ..193 EKM enrollment common errors...... ...193 Data in Flight encryption . If enabled, all clients have unrestricted access to all Catalyst stores. On the System Management screen, click the system that you want to view and manage. For the first hour after a backup completes, you can delete a Catalyst item. Data at Rest and Data in Flight Encryption can be applied quidelines.. using a Security license. Some screens include Filters (), Search (), clickable graphics, and Information icons () that link to more detailed information. Data Immutability Retention The selected Immutable Period, or "No Limit" if the feature is disabled. 129 NAS replication screens and properties.... .133 Adding replication permissions for target NAS shares......133 Adding replication target systems...... . Enable Secure Erase by editing the store, VT library, or NAS share. 147 Adding Viewing NAS replication file information... . Shows as None or the number of Secure Erase passes. Copy jobs are initiated from the StoreOnce supported application and have none of the complexities of replication mapping. Key Managers The StoreOnce System can use a local or an external key manager to manager replication target systems. keys for Data at Rest and Data in Flight Encryption. For information on backing up external keys, see Backing up Key Manager configurations on page 189. Rerouting will prevent backups from failing unexpectedly. To re-establish access, each member system must be removed and readded to the federation. System1 is the lead and System2 is a member, reporting to System1. • To view Cloud Bank stores for a specific status, click the status on the graphic. • High: all data is sent from the media services Page 8 HPE StoreOnce Catalyst data services Page 8 HPE StoreOnce Systems User Guide For StoreOnce Sys 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce System. For example, the dashboard shows the total number of StoreOnce Catalyst stores in the federation. Catalyst Stores screen (individual store), Backup/Restore tab TIP: • Columns for the most often viewed properties are shown by default. Encrypted. Log in to the lead system in the federation and log in. Using quotas and client permissions to control client access to the Catalyst store defines how much space a particular user can use on the StoreOnce System. 109 Editing replication permissions for target VT libraries...... . 112 Viewing NAS shares .. .112 Viewing NAS shares detail .. A quota allows you to provide a service to back up a particular amount of user data. Table Continued StoreOnce Catalyst data services 29 Property Description Logical Storage Quota The quota for the amount of data sent to the disk before deduplication. 24 Viewing system 207 Troubleshooting.. ..208 All member systems in a federation are unreachable..... ...208 Backup application connection issues..... • To add a dashboards.. StoreOnce system to a federation, you must enter its properly formatted IPv4 or IPv6 address. The HPE StoreOnce Catalyst data services Page 9 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce catalyst data services Page 9 HPE StoreOnce Page 9 HPE StoreOnce 8 HPE StoreOnce 8 HPE StoreOnce 8 HPE Store BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce System. The wizard detects the factory installed storage. For example, from the lead system you can create StoreOnce Catalyst stores on any member systems in the federation. Cloud Bank stores screens and properties are shown by default. On the Add system to federation dialog, enter the required information for one of the member systems and click OK. • HPE StoreOnce Gen4 10GbE-T Network Card • HPE StoreOnce Gen4 10/25Gb SFP Network Card • HPE StoreOnce Gen4 16Gb FC Network Card • HPE StoreOnce Gen4 32Gb FC Network Card • HPE StoreOnce Gen4 16Gb FC Net .. When using Data Immutability, it is essential that the backup application administrator is not also a StoreOnce administrator. Browse to System1, the intended lead system, and log in. For example, the data connection has been lost between the StoreOnce System and the media server. deletion. ...138 Replication data services... 138 Joining and leaving NAS CIFS Active Directories...... 129 Viewing NAS replication mappings.. .. 83 Editing StoreOnce Catalyst Fibre Channel target device settings....... ...140 Viewing replication settings.. ..140 Bandwidth limits (replication). Copy Marked for Cancellation Indicates whether the user has cancelled the copy job. The optional hardware can be installed either in the factory when you purchase the system, or at a later date. 134 Editing replication public access for target NAS shares.135 Deleting replication mappings for source NAS shares.......135 Recovering replicating NAS shares over a WAN...... . Clicking menu icons opens Actions menus on the right side of the screen. The screen for an individual Cloud Bank store includes tabs for Overview, Details, Permissions, Items, Backup/Restore, Outbound Copy, and Inbound Copy, and Inbound Copy, and Inbound Copy. Microsoft ® are either registered trademarks or trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. For example, clicking the

Warning status on the graphic opens the Cloud Bank Stores screen and displays only Cloud Bank stores that have a Warning status. 11 Logging in to the StoreOnce Management Console. 2 User interface guick tour 2 Selecting a system to For more information, see Gateway Server. • Setting the Console Password. 72 Comparing StoreOnce Catalyst copy sessions.... .73 Pausing and resuming outbound copy sessions..... view and manage (federation) .73 StoreOnce Catalyst over Next Copy Attempt Time The date and time for the next copy attempt. You can trigger Secure Erase manually by deleting: • A StoreOnce Catalyst object or whole VT library entridge, or whole VT library entridge, or whole VT library entridge. Fibre Channe size quota can be exceeded before the Catalyst store prevents further backard Enterprise has no control over and is not responsible for information outside the Hewlett Packard Enterprise website. 50 StoreOnce Catalyst data services Page 16 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce Systems. Shows as Online, Down, or Error. 24 Dashboards • To customize which tiles are ..66 StoreOnce Catalyst stores backup/restore displayed in the dashboard, click the view options icon (). On the System Management screen, click System B. Logical Data Size The amount of data sent to the device before deduplication. 66 Viewing StoreOnce Catalyst backup/restore sessions.. 135 NAS settings . 185 Replacing default certificates - overview185 Generating certificate signing requests (CSR). properties. ...186 Importing security .187 Removing CA security certificates.. .188 Key Manager. certificates .188 Viewing the Key Manager mode Immutability feature prevents backup applications from modifying or deleting Catalyst items during the immutable period. 3620 Consists of a server with six 4 TB hard disks. Backup application that created the item. For other backup copy jobs and backup is limited to 7. A License Entitlement certificate comes with the hardware purchase. This is the space consumed after deduplicated. Nothing herein should be construed as constituting an additional warranty. StoreOnce Catalyst data services 47 Cloud Bank Stores screen (individual store), Details tab Property Description Store Name of the Catalyst store. • Configuring Remote Support. Unsuccessful Retry Attempts The number of retry attempts that were unsuccessful. Click Remove to complete the action. 136 Viewing NAS .136 Adding and deleting NAS CIFS Active Directory users and groups.....137 Adding, editing, and deleting NAS CIFS users...... . 134 Editing replication permissions for target NAS shares.. settings History Backup/Restore History The number of days that the history of the backup/restore job is saved. The policy relates to how the client password is transferred between a Catalyst client and a StoreOnce System. • To display the properties in a Details flyout, click the information icon (). Store Dedupe Ratio The deduplication ratio achieved on the data on the Catalyst store. If enabled, you assign permissions when configuring clients and stores. Standalone federation example Scenario 18 Federation system 2, and System 3. For a list of StoreOnce Support Matrix https:// www.hpe.com/Storage/StoreOnceSupportMatrix. This guick tour shows that on the System Date & Time dialog (5b) in the flyout area. The screen that you were viewing changes to show that the system Date & Time dialog (5b) in the flyout area. federation is changed, access to all member systems in federation will be lost. Target Item The name of the target item on the StoreOnce System to which the dat is being copied. When you enable the Data Immutability feature, you specify the number of days for the Immutable Period. On the Remove dialog, select the check box to acknowledge that you want to remove the system. Physical Storage Quota The quota for the amount of data written to disk after deduplication. Each data job can have multiple items. Catalyst Stores screen (individual store), Inbound Copy tab TIP: • Columns for the most often viewed properties are shown by default. Licenses are required for the capacity of data written to the Cloud Bank Storage stores. On the Add dialog, enter the system address and administrator credentials for the StoreOnce System to be added. This rate is typically less than the write bandwidth. For more information, see Data Encryption. The main menu is exposed by default. Applications with a better deduplication ratio can store more more information, see Data Encryption. data. Client Name The client that initiated the inbound copy job. Not all Catalyst supported backup applications support SHA-256 mode. © Copyright 2018 Hewlett Packard Enterprise Development LP Notices The information contained herein is subject to change without notice. Status of the Catalyst store. HPE recommends backing up the local key store after a StoreOnce System has been successfully configured to use the external key manager. Catalyst Stores screen (individual store), Items tab TIP: • Columns for the most often viewed properties are shown by default. 177 Launching the iLO web interface.. 178 Fibre • IMPORTANT: If StoreOnce Catalyst operations pass through a firewall, the network administrator must open (TCP) ports 9387 (Command protocol). Learn more: • Viewing StoreOnce Catalyst stores on page 28 • Viewing Cloud Bank stores on page 43 • Viewing VT libraries on page 129 2. The Create dialog enables you to specify the following: • Catalyst store name • Security Settings • Advanced Settings Editing StoreOnce Catalyst stores Procedure 1. However, HPE recommends that you use the StoreOnce supported backup application remove items. The name of the selected system (3a) is displayed under the screen names. The dashboard does not display aggregated information about the federation. HPE 189 Enrolling with an External Key Manager... recommends v4. On the Data Services screen, do one of the following: • To view all Cloud Bank stores, click the title Clo data services Page 18 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for the Hewlett Packard Enterprise StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. The Add system to federation dialog opens, No. Cloud Bank storage licenses are capacity-based and must be purchased and must be purchased separately. The Immutable Period includes a one hour grace period. Encryption has a negative effect on the deduplication ratio. StoreOnce system. When System2 is added, the federation is created. Notice for OpenSSL This product includes software developed by the OpenSSL Toolkit. System Name of the StoreOnce System. Items The number of items in the Catalyst store. The wizard also reports issues with additional storage, for example, when additional storage is not installed in the correct location. The external key 16 About StoreOnce Systems manager stores and manager at Rest Encryption events and manager stores and manager ...167 Initial configuration . On the Add dialog, enter the system address and administrator credentials for System3. System1 is chosen to be the lead system for managing the federation. 178 Viewing Fibre Channel concepts port settings and properties. ...178 Fibre Channel settings and properties. As long as the two transfer policies have different values, the media server will determine which is the most bandwidth efficient transfer policy to use. Cloud Bank Stores screen (individual store), Overview tab Property Description Status bar The status of the Catalyst store. 154 Manually deleting events. . • A system can be a member in one system and also be the lead system in another federation. The amount of time required to complete the Secure Erase increases with the number of overwrite passes. 144 Blackout window properties... Expand the Actions menu and select Remove. The quota allows you to partition the physical capacity of the StoreOnce System between various users. 2. 141 Editing replication general bandwidth limit .179 Viewing hardware 178 Editing Fibre Channel port settings. ...179 Hardware and firmware. .180 Locating StoreOnce Systems.. .180 Updating hardware component firmware.. 193 Login Banner. components (hardware monitoring) For example, if a logical data guota size is set to 1 TB and the backup has a deduplication ratio of 10:1, the logical data size guota can be exceeded by 10 GB. On the Catalyst Stores screen, click the StoreOnce Catalyst store. For more information on how to enable Enabling and disabling StoreOnce login banners... such backups, see Backup Settings. The HPE StoreOnce backup repository does not support the Defragment and compact full backup repository. Table Continued 46 StoreOnce Catalyst data services Property Description Logical Storage Quota The guota for the amount of data sent to the disk before deduplication. The screen for an individual StoreOnce Catalyst store includes tabs for Overview, Details, Permissions, Items, Backup/Restore, Outbound Copy, and Inbound Copy. To add or remove . To remove a lead system, do the following: a. Source Store Name The name of the source Catalyst store on the StoreOnce System from which the data is being copied. When logged in to a lead system, but you can manage not only that system, but you can also manage any of the member systems in the federation. 167 Viewing the active network configuration. . Or, moving between a StoreOnce System and a backup server over a LAN or WAN. HPE recommends enabling client access for increased data security. Example While viewing the Settings for System B. Client Access Client Name The Catalyst client name that is provided to the StoreOnce supported backup applications when connecting to StoreOnce Catalyst. Target Item Copy Offset This value identifies where the data to be copied occurs within the target item. 203 Editing and deleting SNMP trapsinks...... ...204 Adding SNMP users..... 204 Editing and . The screen area displays tabular and graphic information. The Edit dialog allows you to specify the following: • Security Settings • Advanced Settings Deleting StoreOnce Catalyst stores Procedure 1. • Synchronizing: Shown only during lead initialization. OK, Warning, Critical. deleting SNMP users 66 Viewing Catalyst copy sessions. . Federations 19 System1 is chosen to be the lead system for the federation of all 15 StoreOnce systems. Veeam Backup & Replication will automatically deploy Veeam Data Mover on this gateway server. Proxy Option which determines whether connection to Azure is routed through an HTTP proxy or not. • To view stores that have a specific status, click the status on the graphic. 110 Making replication target VT libraries visible to hosts. .110 NAS data services... ...112 NAS .77 Configuring StoreOnce Catalyst over Fibre ... 74 StoreOnce Catalyst over Fibre Channel client considerations..... ..75 StoreOnce Catalyst over Fibre Channel zoning considerations. shares When logged in to a member system, you can manage the system as usual. Client Name The client that initiated the outbound copy job. 65 Viewing StoreOnce Catalyst items . ..65 Viewing StoreOnce Catalyst items related-Channel .65 Deleting StoreOnce Catalyst items. . Browse to System11, the intended lead system for the federation of the six regional group systems, and log in. More properties Number Of Items The number of items in the Catalyst store. Rerouting will prevent backups sessions from failing unexpectedly. Signature Version Select either v2 or v4 signature authentication with S3 connections. Encryption licenses may also be purchased to enable data at rest and data in flight encryption. 157 Viewing warranty serial numbers... 157 StoreOnce ...157 Obtaining StoreOnce licenses... ..158 Viewing StoreOnce licenses. 158 License Management screen and properties. licensing Adding StoreOnce Standalone license ..160 Deleting StoreOnce Standalone licenses ..161 Editing system date and time161 Editing system ...161 Editing user preferences. The target is the other StoreOnce System to which the job is being copied from this ...161 Capacity units... information StoreOnce System. If deduplication is disabled, "Dedupe Disabled" is displayed. • Link failure: IP connectivity has been lost and the backup application must retry the job. 77 Editing StoreOnce Catalyst Fibre Channel settings. . That is why it is recommended that you use HPE Cloud Volumes Backup only as a target for backup copy jobs with enabled HPE Catalyst Copy. HPE StoreOnce has a limit on the number of concurrently opened files. 100 Tips for editing VT library barcodes... ..100 Deleting VT library cartridges.. .101 Editing VT library For example, clicking the Warning status on the graphic opens the System (All Systems) screen and displays the reachable federation systems that have a Warning status. 50 StoreOnce Catalyst data services Page 11 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User cartridges Guide For StoreOnce software version 4.1.1 Part Number: BB954-80041 Published: December 2018 Edition: 2 Abstract This document is the user guide for users who install, operate, and maintain the StoreOnce Systems and is intended for users who install, operate, and maintain the StoreOnce System. Read Duration The length of time that data was read. Viewing federation health Procedure 1. Lead systems. • Copy jobs are initiated from the StoreOnce supported application and have none of the complexities of replication mapping. • Unexpected error: The StoreOnce System experienced a problem while processing the item. Upgrade the capacity upgrade enclosure kits. Upgrade by purchasing up to five disk capacity upgrade kits with the same capacity to fill the original enclosure. Target Address The IP address of the target server. 78 Editing StoreOnce Catalyst Fibre Channel device login settings. . 25 Editing system 102 Erasing VT library cartridges.. ..25 Data services overview.. ...26 Viewing data services.... information .103 VT libraries replication overview. .102 Unloading VT library cartridges. library cartridge .103 VT replication StoreOnce Catalyst data services Catalyst Stores screen (individual store), Overview tab Property Description Status bar The status of the Catalyst store. 164 Unconfiguring storage. .165 Editing storage capacity thresholds. Federations 21 You can continue to use the Add system to federation dialog to add systems as members. TIP: If there are multiple unsuccessful attempts, a network link may be scheduled. When using the local key manager, the local key store contains the encryption keys used for Data at Rest Encryption or Data in Flight Encryption. 148 Editing and deleting replication target systems... ...149 Locating replication serial numbers... ..149 Pausing replication. 149 Permissions .149 Viewing replication event history. ..149 Adding replication permissions for target systems.. ..150 Removing replication permissions for target systems.. (replication). Clicking the change-system icon () opens the System Management screen where you can choose the system whose information is displayed in the screens and dialogs. Large data blocks produce a smaller metadata table that requires less memory and CPU Resuming replication resources to process. The HPE StoreOnce backup repository always works in the Use per-machine backup files mode. Percentage of the copy job that has been completed. A quota allows you to provide a service to back up a particular amount of user data. On the screen for the Catalyst store, expand the Actions menu and select Edit. You can add three capacity upgrade enclosures to your system. You can use the IP Address or Fully Qualified Domain Name, https://. FAQ General Can I upgrade older versions of HPE StoreOnce Systems to software version 4.1? No. Older compatible with StoreOnce Gen3 replication? 189 Backing up Key Manager configurations. ..189 Restoring Key Manager configurations. . Property Description Modified The date and time that the item in the Catalyst store was modified. 202 Editing and deleting .203 SNMP SMTP subscriptions .202 Sending test email .203 Viewing and configuring SNMP.. .203 Editing Session History Backup/Restore History The number of days that the history of the backup/restore jobs is saved. When creating a backup job, you must enable synthetic and/or active full backups. Duration The amount of time taken to copy the data. On the Federation SNMP agent setups Management screen, Members tab, expand the Actions menu and select Add. User Data Stored The amount of data that you have backed up, reconciled with the logical data recorded on the StoreOnce supported backup application. Add System2 (To create the federation, you can add any intended member system. User interface quick tour The HPE StoreOnce Management Console user interface includes the following key features: Main menu icon (1). The screen also enables you to add or remove systems from the federation. Data Immutability is often used on a secondary or tertiary StoreOnce System where you can more easily implement administrator separation. However, you cannot management other systems in the federation from a member system. Applications with a better deduplication ratio can store more data. Licensing is based on capacity in 1 TB increments. 154 Restart, shutdown, and upgrade... .. For example, after the creation or deletion of: • Catalyst stores, VT libraries, or NAS shares • Data in Flight Encryption links When using an external key manager, the local key store contains only the credentials required to authenticate the external key manager. Table Continued 34 StoreOnce Catalyst data services Property Description Logical Storage Quota The quota for the amount of data sent to the disk before deduplication. You can configure Secure Erase to overwrite the data to be deleted with either one, three, five, or seven passes. The backup application sends the request to delete the data and the deletion is carried out as part of the Housekeeping function. The Settings screen changes to show that you are now viewing and managing System B. 43 Cloud Bank stores service providers . 173 Adding and deleting encryption links.... and properties .56 Tips for working with Cloud Bank stores..... ...174 Editing DNS servers... Created The date and time that the Catalyst store was created. The Systems (All Systems) screen displays a list of all reachable systems in the federation and their health. Only data chunks (processed portions of user data) that are not referenced by any other items can be securely erased. For settings detail steps, see Adding systems to federations 23 Dashboards Viewing system dashboards Viewing system dashboards Procedure 1. If you use the Cloud Bank Storage Detach feature, additional licenses are needed for the capacity of the detached Stores. More properties Size on Disk The actual size used on disk after deduplication. You cannot use both key manager types at the same time. The member is reachable but the lead has not yet received system data from it. Secure Erase for all store types except Cloud Bank stores. • You can also click some graphic titles and graphic elements to display more information. On the main menu, select Federation Dashboard, and then click the manage-federation icon () in the upper right corner of the screen. • To display all item properties in a Details flyout, click the information icon () for the item. If enabled, all clients have unrestricted access to all Catalyst stores. Valid license from Hewlett Packard Enterprise required for possession, use, or copying. Limitations apply only if you use HPE StoreOnce in the integration mode, not the shared folder mode. When you create a job targeted at HPE StoreOnce, Veeam Backup & Replication will offer you to switch to optimized job settings and use the 4 MB size of data block for VM data processing. Clicking the user icon shows your login user name and enables you to log out. 168 169 Adding, editing, and deleting port sets. 168 Activating network configurations Editing the active network configuration. .169 Identifying physical171 Adding, editing, and deleting subnets. store. Learn more: About federations on page 18. • Each member system in a federation must be able to communicate with the lead system. The main menu provides quick access to the major areas and features in the user interface. Shows as Not Licensed if there is no encryption license on the StoreOnce System. 57 Creating Cloud Bank In backups with high deduplication ratios, a logical data size quota can be exceeded before the Overlapping federations example Scenario Your organization has 15 StoreOnce Gen4 Systems. 184 Configuring password policies....... Catalyst store prevents further backups. User icon (7). 164 Viewing storage... ...164 Configuring storage.. ...164 Rescanning storage. . You can set the date and time manually, or synchronize the date and time with a network time server. Source Item The name of the item within the data job. Source Item Copy Size This value identifies the size of the data to be copied within the source item. This name is created by the backup application. 161 Using the StoreOnce First Time Setup162 Removing optional hardware cards..... General guidelines • A federation can include up to 20 systems. The Federation Dashboard screen summarizes the properties of the StoreOnce Systems in the federation. • Low: the media server wizard. deduplicates the data and sends only unique data. On the Federation Dashboard, do one of the following: • To view the health of all reachable federation members, click the title Health Status above the graphic. • Is StoreOnce Gen4 replication compatible with StoreOnce Gen2 replication? 43 Cloud Bank Browse to a system in the federation and log in. HPE StoreOnce has a limit on the number of opened files that applies to the whole appliance. The First Time Setup wizard is stores..43 Viewing Cloud Bank stores...... automatically displayed. 207 StoreOnce Catalyst via Micro Focus Data Protector best practices..... ... Learn more: User interface quick tour on page 12. Keep only the latest version of the key store. 14 Getting started About StoreOnce Systems StoreOnce hardware models The StoreOnce Gen4 hardware platform includes the following hardware models. When a Catalyst store reaches its quota, the status of the stores to Catalyst stores. Creating StoreOnce Catalyst stores Procedure 1. Copy History The number of days that the history of the copy jobs is saved. On the main menu, select Settings, and then click the System Information panel. 18 Overlapping federations . 195 Sessions195 Viewing sessions.. ...195 Configuring session timeout policy... example..195 Changing the Initialisation Console user password..... Initialisation Console credentials... . Read Bandwidth The theoretical maximum rate that data could be read, without regard to practical considerations. Deleting items using the StoreOnce Management Console should only be done as a last resort. HPE StoreOnce does not support the forever forward incremental backup method. For backup jobs, HPE StoreOnce does not support the reverse incremental backup method. Backup/Restore tab TIP: • Columns for the most often viewed properties are shown by default. • A system can be member in more than one federation. TIP: If you need capacity management, HPE recommends configuring StoreOnce supported backup applications that have quotas to reroute to another device or to postpone backups. Shows as None or the number of Secure Erase passes. Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated. 64 Editing client public access for StoreOnce Systems, repeat the following substeps: a. 50 StoreOnce Catalyst data services Page 17 HPE StoreOnce 3620, 3640, 5200, 5250, and 5650 Systems User Guide For StoreOnce Systems. Learn more: • Viewing StoreOnce Catalyst settings on page 79 • Viewing NAS settings on page 136 26 Data services overview StoreOnce Catalyst data services Licensing requirements • The security features of Data at Rest Encryption and Data in Flight Encryption require a Security license. • HPE recommends that you follow the network guidelines for federations. TIP: If you need capacity management, HPE recommends configuring StoreOnce supported backup applications that have guotas to reroute to another device or to postpone backups. 162 Updating StoreOnce system information.



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