Veritas Access NetBackup Solutions Guide

Linux 7.3.2

(Use with the Veritas Access 3340 Appliance documentation)



Veritas Access NetBackup Solutions Guide

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Veritas Services and Operations Readiness Tools (SORT) is a website that provides information and tools to automate and simplify certain time-consuming administrative tasks. Depending on the product, SORT helps you prepare for installations and upgrades, identify risks in your datacenters, and improve operational efficiency. To see what services and tools SORT provides for your product, see the data sheet:

https://sort.veritas.com/data/support/SORT Data Sheet.pdf

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Chapter

Veritas Access integration with NetBackup

This chapter includes the following topics:

- About Veritas Access
- About Veritas Access as a NetBackup client
- About Veritas Access as backup storage for NetBackup
- Use cases for long-term data retention

About Veritas Access

Veritas Access 3340 Appliance is a software-defined, network-attached storage (NAS) solution for unstructured data.

Veritas Access provides resiliency, multi-protocol access, and data movement to and from the public and private cloud based on policies. You can reduce your storage costs by using low-cost disks and by storing infrequently accessed data in the cloud.

About Veritas Access as a NetBackup client

Veritas Access is integrated with Veritas NetBackup so that a NetBackup administrator can back up your Veritas Access file systems to NetBackup master or media servers and retain the data as per your company policy. Once data is backed up, a storage administrator can delete unwanted data from Veritas Access. The NetBackup master and media servers that run on separate computers from Veritas Access are licensed separately from Veritas Access.

You configure NetBackup domain information using any one of the following Veritas Access interfaces:

CLISH

The Veritas Access CLISH has a dedicated Backup> menu. From the Backup> menu, register the NetBackup client with the NetBackup domain. Information is saved in the bp.conf file on Veritas Access.

GUI

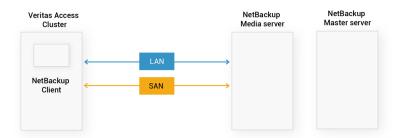
Settings > NetBackup Configuration

See the online Help for how to configure NetBackup using the GUI.

RESTful APIs See the Veritas Access RESTful API Guide.

Consolidating storage reduces the administrative overhead of backing up and restoring many separate file systems. Critical file data can be backed up and restored through the NetBackup client on Veritas Access.

Configuration of Veritas Access with NetBackup Figure 1-1



About Veritas Access as backup storage for **NetBackup**

This document describes how Veritas Access fulfills the needs of NetBackup customers looking for a cost-effective solution for moving away from tape backups. yet retain the backed-up data for the long term.

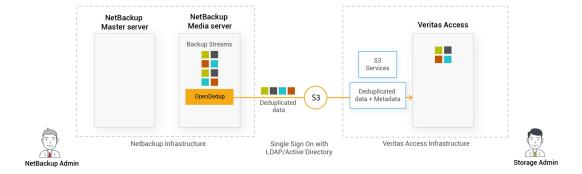
NetBackup is an enterprise-class heterogeneous backup and recovery application. It provides cross-platform backup functionality to a large variety of Windows, UNIX, and Linux operating systems.

Veritas Access is based on the rock-solid and industry-proven Veritas CFS stack. It offers an AWS-compatible S3 protocol as object storage for NetBackup.

Veritas Access is integrated with OpenDedup. OpenDedup is OpenSource software that lets you deduplicate your data to on-premises or cloud storage. OpenDedup installs on top of a NetBackup media server or Veritas Access; it performs data deduplication and stores deduplicated data on Veritas Access over S3.

Figure 1-2 shows how Veritas Access integrates with OpenDedup over S3 to store NetBackup backup streams as deduplicated data.

Figure 1-2



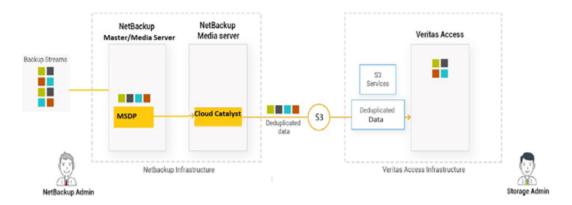
Use cases for long-term data retention

The following are the use cases for long-term data retention (LTR) with Veritas Access 3340 Appliance.

Use Case 1: Veritas Access with CloudCatalyst

- Primary backup data is deduplicated by MSDP and stored on the NetBackup server.
- The same deduplicated data is moved to the Veritas Access 3340 Appliance through SLP using CloudCatalyst.

Figure 1-3



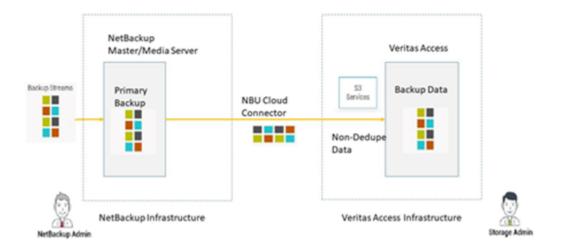
Use Case 2: Veritas Access as an S3 connector

- Backup data is stored in non-deduplicated format on the NetBackup server as primary backup.
- The same primary backup data is moved to Veritas Access 3340 Appliance through SLP over the Veritas Access S3 protocol.

Or

- Primary backup data is deduplicated by MSDP and stored on the NetBackup server.
- The deduplicated data is rehydrated and then moved to the Veritas Access 3340 Appliance through SLP over the Veritas Access S3 protocol.

Figure 1-4



Chapter 2

System requirements

This chapter includes the following topics:

Supported configurations and versions for NetBackup with CloudCatalyst

Supported configurations and versions for NetBackup with CloudCatalyst

Table 2-1Supported versions

Veritas Access	Veritas NetBackup servers
7.3.2	8.1 and later
	(Linux only)

Download links:

Cloudprovider.xml Version 2.3.1 supports Veritas Access.

https://www.veritas.com/support/en_US/article.000125094

Update the mappings file.

Unix/Linux: http://www.veritas.com/docs/000025759

Chapter 3

Configuring Veritas Access as a cloud storage server with NetBackup CloudCatalyst

This chapter includes the following topics:

- Benefits of using Veritas Access with NetBackup and CloudCatalyst
- Creating an S3 bucket on Veritas Access for storing deduplicated backup data from NetBackup
- Creating a Media Server Deduplication Pool (MSDP) for primary backup using NetBackup
- Configuring Veritas Access as a cloud storage server on NetBackup server
- Configuring Veritas Access SSL with NetBackup

Benefits of using Veritas Access with NetBackup and CloudCatalyst

- Low-cost, flexible alternative for long-term data retention.
- Eliminate the need for cumbersome, time-consuming tape management.
- Cost-effective and resilient solution that is scale-out (linear performance) and elastic (grow/shrink on demand).

Creating an S3 bucket on Veritas Access for storing deduplicated backup data from NetBackup

To create an S3 bucket on Veritas Access for storing deduplicated backup data from NetBackup

Log on to the Veritas Access GUI as the master user using the following URL:

https://Veritas Access Management console IP:14161/.

2 Create a storage pool for the S3 buckets.

Click NAS Infrastructure in the GUI navigation on the left.

Select the disks that you want to use for the S3 bucket, and click the Add to **Storage Pool** button to invoke the wizard for storage pool creation.

Follow the steps in the wizard for creating a new storage pool or adding the disks to an existing pool.

Click Settings > User Management > Configure Active Directory to configure AD.

Enter the required information, such as the **DNS Domain**, **DNS Name Servers**, AD Domain, AD Domain Controller, and the AD Admin and Password.

Click **Settings > S3 Management** to configure and enable the S3 server.

Edit the default parameters that are required for the S3 server, such as the storage pool name, underlying S3 bucket layout, and the default size of the bucket.

- 5 Click the button in front of **S3 Server Status** to start the S3 server.
- Log out from the GUI, and log in again as an AD user.

Click on the Create keys button to generate the access key and the secret key for the Veritas Access S3 bucket.

Save the access key and secret key in a safe location, as Veritas Access does not allow retrieval of keys after initial creation.

Note: Log in using the *domainname\\username* format.

Log out from the GUI, and log in again as the master user.

8 Registration of supported public cloud service is optional, and is only required in case you need to add an AWS cloud as a storage tier. Without this, backups are stored locally in Veritas Access S3 buckets.

Click Settings > Cloud Storage Registration > Add Cloud Subscription to register the supported public cloud service.

Enter information for the cloud service provider, name of subscription, access key, and secret key.

9 Activate the long-term data retention (LTR) policies.

Click Policies > LTR Policy.

Click Activate for either the LTR On-Premises + Cloud policy or the LTR **On-Premises** policy and provide the storage pool when prompted.

Note: Data movement policy to the public cloud is not supported for the Appliance 1.0 release as the default policy needs to be manually updated.

10 Provision the NetBackup bucket using the policy.

Under Quick Actions, click Provision Storage. Select S3 Storage for NetBackup and click Next.

Provide the bucket size, underlying layout of the bucket, the access key, and the secret key of the Veritas Access S3 server generated as the AD user in step 6.

If you selected the LTR On-Premises + Cloud policy, add information such as which data should be moved to the AWS cloud tier, AWS region, cloud tier type (S3/Glacier), and when the data movement to the cloud should occur.

11 Monitor the progress of the task under **Recent Activity**.

Make a note of the scale-out file system name that was used for the bucket creation.

12 Click File Systems.

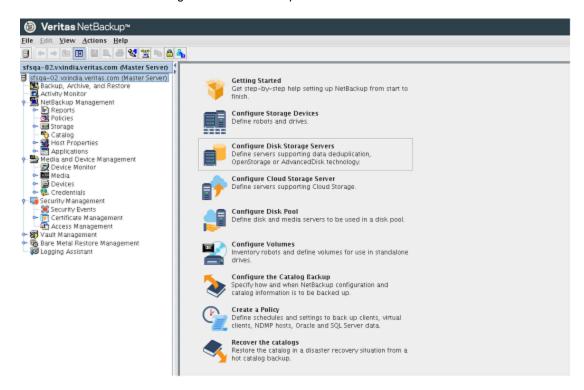
For the scale-out file system that is created, ensure that the S3 Bucket column displays **Yes** to indicate that the S3 bucket is enabled.

You may need to wait for some time for this change to be reflected in the GUI.

Creating a Media Server Deduplication Pool (MSDP) for primary backup using NetBackup

To create an MSDP disk pool and storage unit (STU) in the NetBackup console

Log on to the NetBackup master server from the Java console.



2 Select Media Server Deduplication Pool.



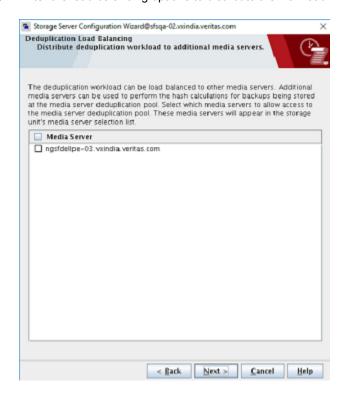
3 Enter the user name, password, and other required details.



Enter the storage path for MSDP.



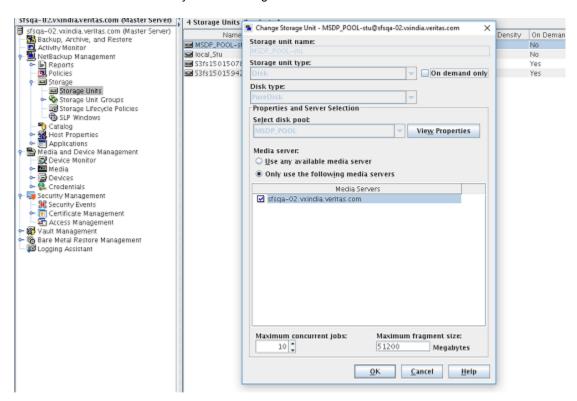
5 Enter the load balancing options to distribute the workload.



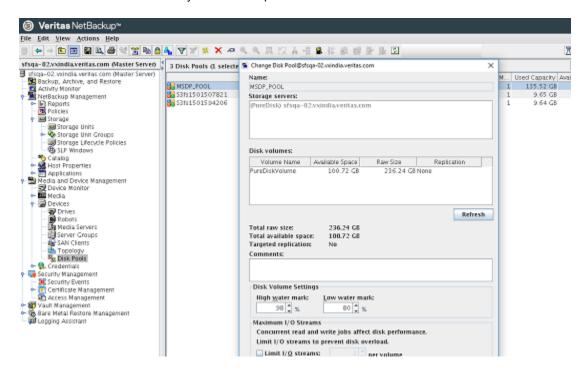
6 Verify the storage server configuration summary.



Verify that the storage unit is created for MSDP.



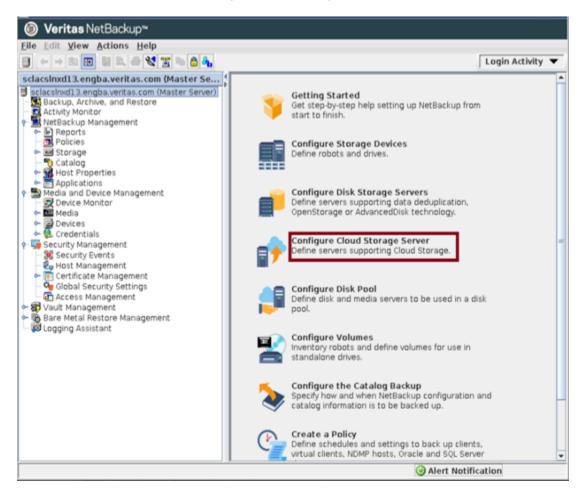
Verify that the disk pool is create for MSDP.



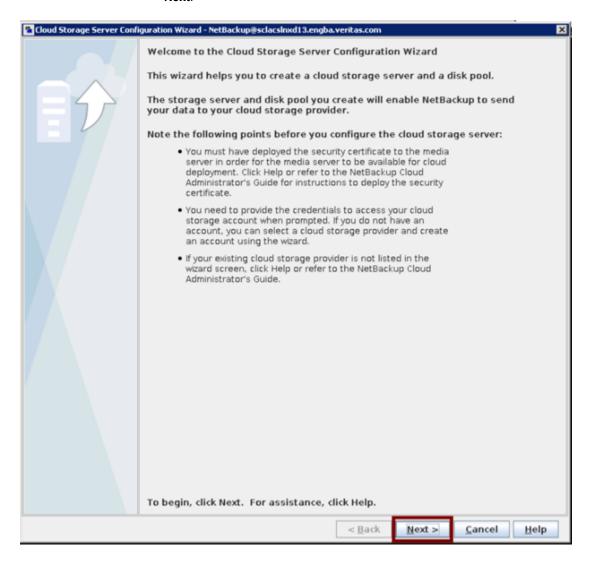
Configuring Veritas Access as a cloud storage server on NetBackup server

To configure Veritas Access cluster as a cloud storage server and create an OpenStorage Technology (OST) disk pool and storage unit (STU) from the NetBackup console

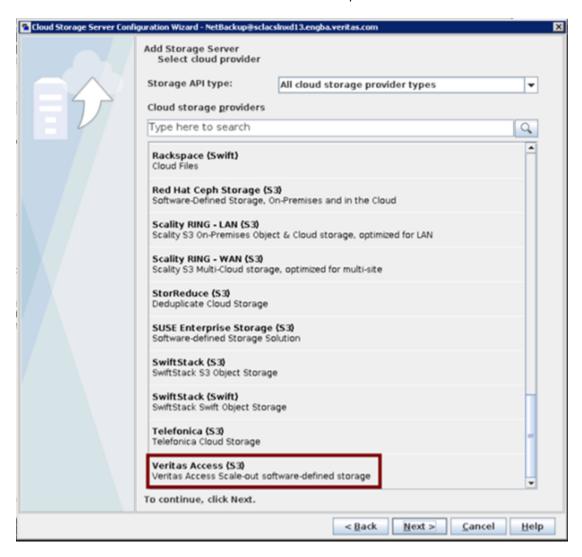
- Log on to the NetBackup master server from the Java console.
- 2 Select Configure Cloud Storage Servers.



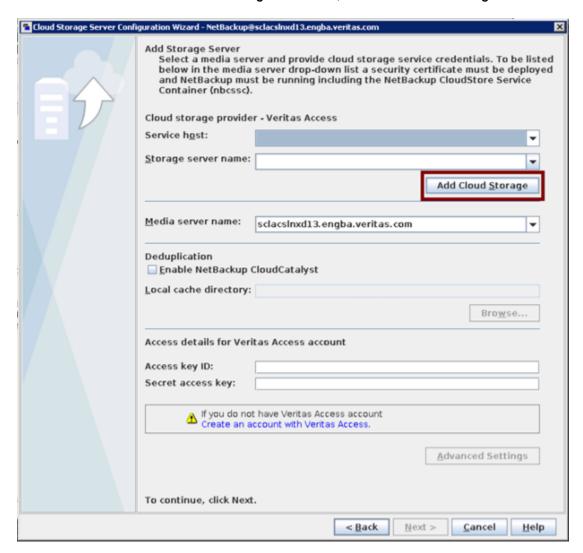
3 The Welcome to cloud storage server configuration wizard appears. Click Next.



Select **Veritas Access** in the cloud provider list. Click **Next**.



On the Add storage server form, click on Add Cloud Storage.



In the **Add cloud storage** wizard, enter the required information.

Service host: s3.<veritas access cluster name>

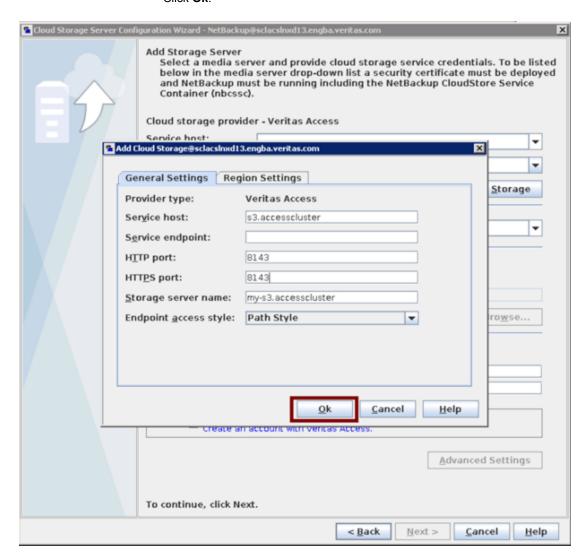
HTTP port: 8143

Https Port: 8143

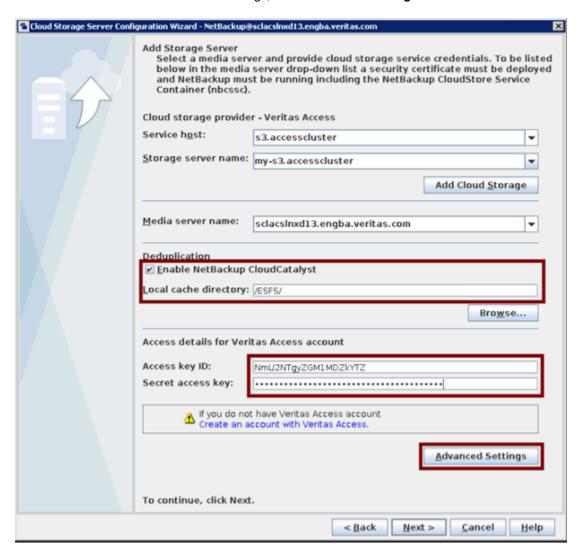
Storage server Name: Any string or any auto-generated name.

For example, my-s3.<veritas access cluster name>

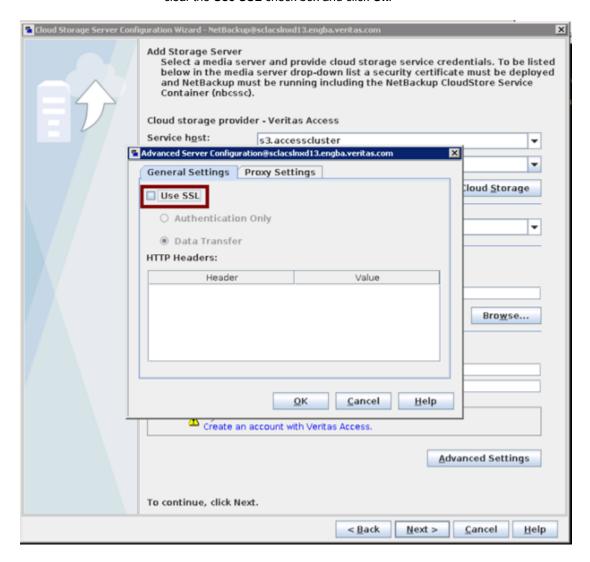
Click Ok.



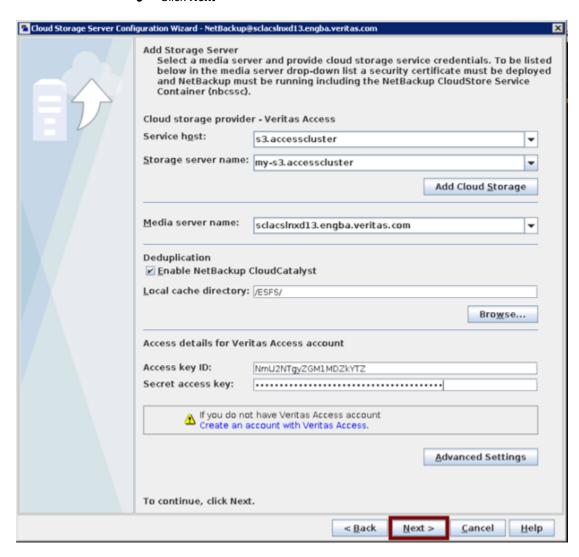
Select Media server from the Media server name drop-down box. Select the Enable NetBackup CloudCatalyst check box if you want to store the deduplicated MSDP backup data on Veritas Access's ObjectAccess bucket. Specify the path of local cache directory for CloudCatalyst. Enter the access key and secret key using which the bucket is created on Veritas Access. For SSL-related settings, click on **Advance Setting**.



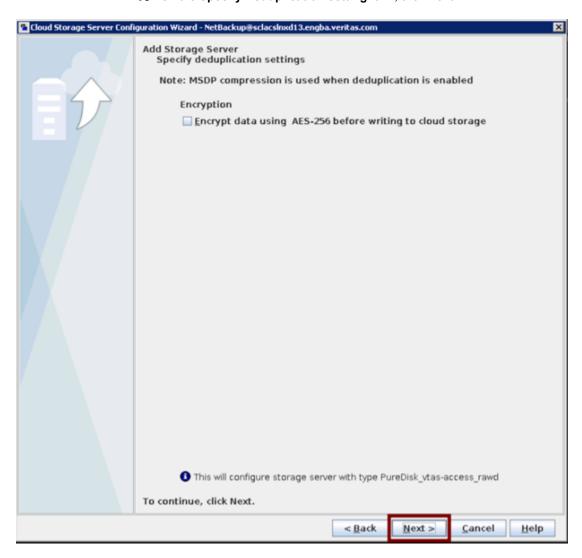
If the Veritas Access ObjectAccess server is configured with No SSL, then clear the Use SSL check box and click Ok.



Click Next

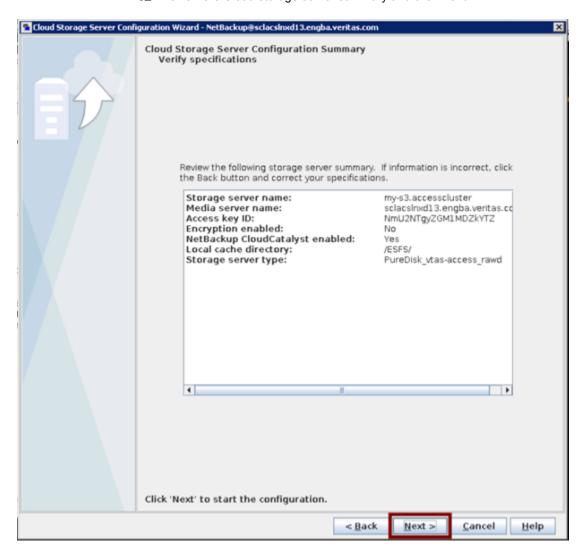


10 On the Specify Deduplication setting form, click Next

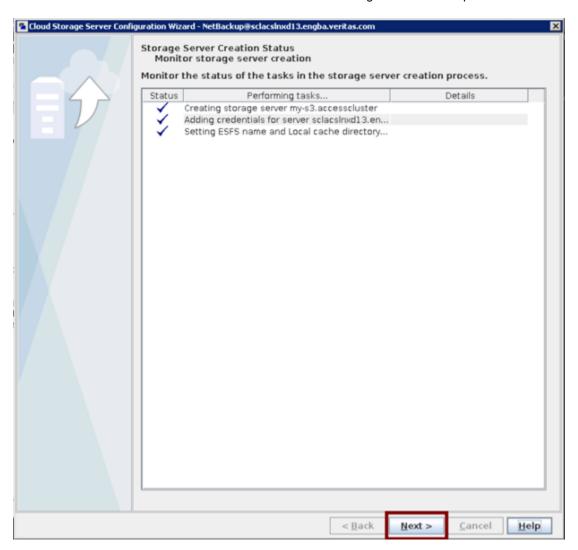


11 Messages related to setting the encryption appear. Click **Yes**.

12 Review the Cloud storage server summary and click **Next**.

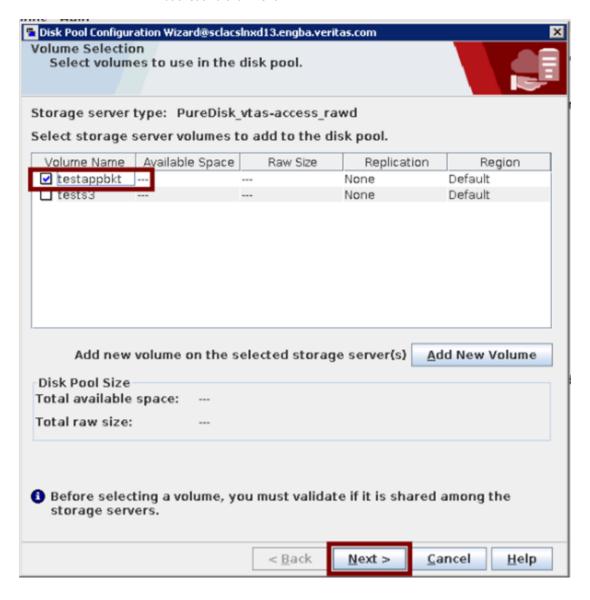


13 Check the status of the tasks in the storage server creation process. Click Next

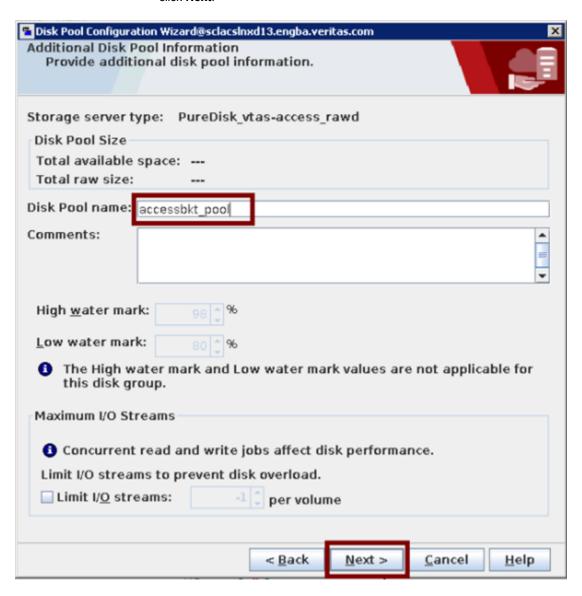


14 Verify that the storage server is successfully created and click **Next**.

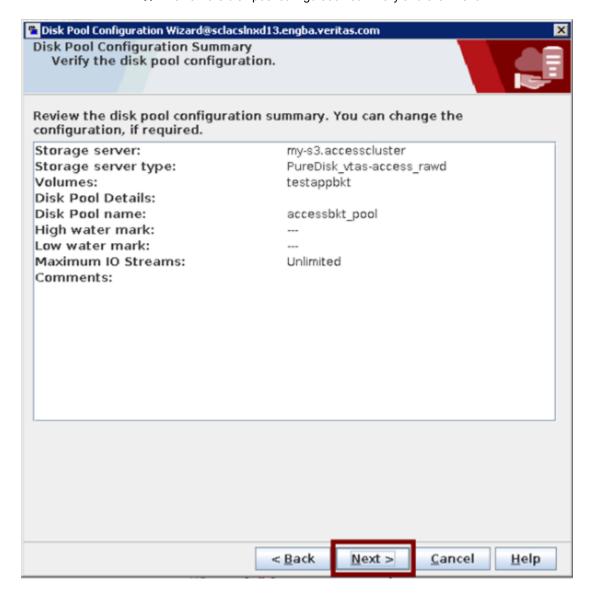
15 The **Volume selection to use in disk pool** form lists all the buckets that are created by a user on the Veritas Access cluster as a volume. If the bucket is not created from Veritas Access, then click on **Add volume** and specify the bucket name. After bucket creation, the bucket is listed as a volume. Select a bucket and click Next.



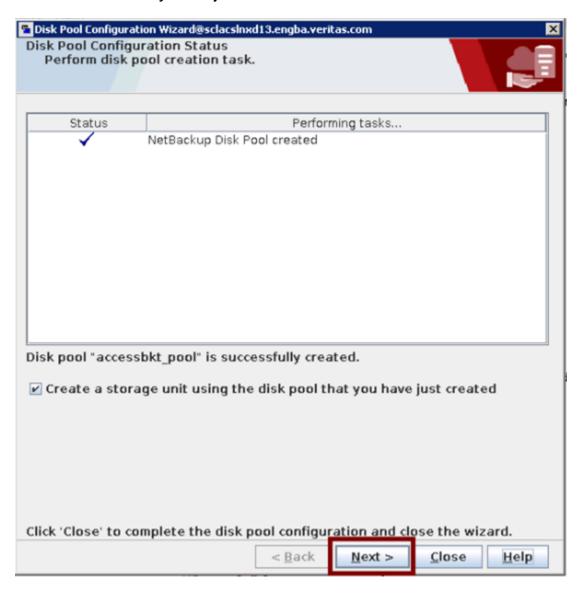
16 In the Additional disk pool information form, enter the disk pool name and click Next.



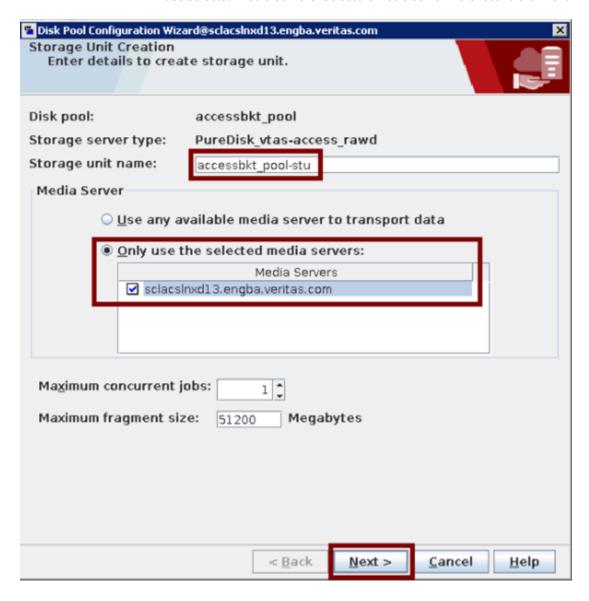
17 Review the disk pool configuration summary and click **Next**.



18 In the Disk pool creation status form, verify that the disk pool is created successfully. Make sure that the Create storage unit using disk pool which you have just created check box is selected.



19 In the Storage unit creation wizard, enter the storage unit name. Click Only use selected media servers. Select the media server in the list and click Next.



20 Verify that the disk pool creation wizard is completed successfully. Click Finish.



Configuring Veritas Access SSL with NetBackup

To configure Veritas Access SSL with NetBackup

Enable SSL on Veritas Access.

```
Objectaccess > set ssl_enabled yes
Objectaccess > server stop
Objectaccess > server start
```

Go to the bash prompt of the cluster node and copy the following content from the /shared/ptgwy/cacert.pem file and append it to the /usr/openv/netbackup/db/cloud/cacert.pem on the NetBackup master and media servers.

----BEGIN CERTIFICATE----

MIIDjTCCAnWgAwIBAgIJANFjuMEdS0LRMA0GCSqGSIb3DQEBCwUAMF0xCzAJBqNV BAYTAlVTMRMwEQYDVQQIDApDYWxpZm9ybmlhMRAwDqYDVQQKDAdWZXJpdGFzMQ8w DQYDVQQLDAZBY2N1c3MxFjAUBqNVBAMMDXMzLm5idTq3Mi1hcHAwHhcNMTqwMTAz MTAwODAxWhcNMjEwMTAyMTAwODAxWjBdMQswCQYDVQQGEwJVUzETMBEGA1UECAwK Q2FsaWZvcm5pYTEQMA4GA1UECgwHVmVyaXRhczEPMA0GA1UECwwGQWNjZXNzMRYw FAYDVQQDDA1zMy5uYnU4NzItYXBwMIIBIjANBqkqhkiG9w0BAQEFAAOCAQ8AMIIB CqKCAQEAl+XkH9Buzz2KRYsoBbKxOExq2fRDhfTb1lplleiMN/1cryvMkquEFkFk kjuTsi3lnuj0Sc5/FimzfnclXyvI9uWAB07wdxwjKFBlg0GvxSa/obQ/SMG8fEHL qY1/baJKPoz7xvg+QJd/3A1ZJqLvA1i7DEErVuUyNrtjxKnPNIKzzRhBg9M5+HPp b4ZOXUnFWU9w4CI1JBvYTBQ5X2wtGx9cLtHb9fF9XTv2SqWUUroGDc2DYlgo8j2n AsTWzk+mJw12wRcE00FoBlYhOCNJlXkl4n4VSKbTUdCMkm6Ej5Yf+AIAbLiQNFqv Sralc5TFMHjUUg5dgBPizCLTmuQz8QIDAQABo1AwTjAdBgNVHQ4EFgQUgBpm7gK1 q/M/3+Y0st8m2EMzulgwHwYDVR0jBBgwFoAUgBpm7gK1q/M/3+Y0st8m2EMzulgw DAYDVR0TBAUwAwEB/zANBqkqhkiG9w0BAQsFAAOCAQEAcw4QIfXiuJMY/6BGBVAA dnrRG11+hczHfbQVeDV9ApijEe/qiIx8QLL9fDx8MqsdIIHcqfuv5mzAQLzwa+tH 7USIqBfxfEytnKBuAYbYyOfXKJDUIAaWFjcM0rOP1z+Dv6zf7B65Mv3aKD1rENFT UqPBphLACAU9CzLidJkoE3izOaZbiys/r24yRR8X/Pugsxy7VESN6WSqzYg0jdSf iCJKqLEdOYcE85NhW8eaCsfqCkxoskTqu1Nnf4j01MYP5d+4U8uAEc/uLrndD3Rn n7MB0EeciPgqWZQWNLjyQNNZ/F58wlyTtHv48VM1ZXhIJBhjUwFZAEAg43R5n67o Pw ==

3 Restart the NetBackup services on both the master and media server.

----END CERTIFICATE----

```
# bp.kill_all
# bp.start all
```

4 Configure the cloud storage server with SSL.

Chapter

Configuring backup and restore using NetBackup policies

This chapter includes the following topics:

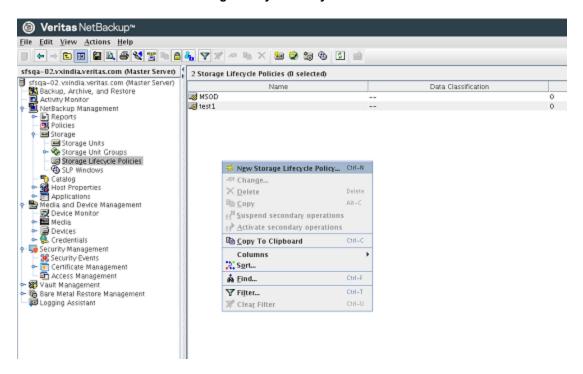
- Storage Lifecycle Policies
- Backup and restore
- Running a backup policy manually
- Restoring backed up files

Storage Lifecycle Policies

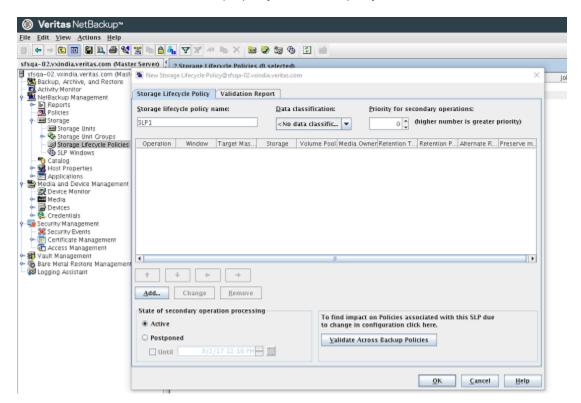
You can create Storage Lifecycle Policies (SLP).

To create Storage Lifecycle Policies

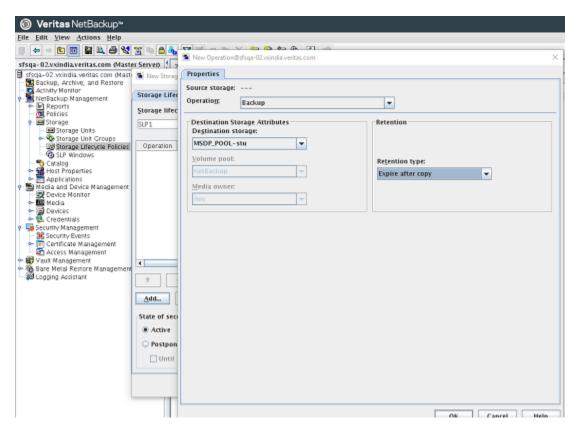
Click Storage -> Storage Lifecycle Policies on the NetBackup console. Select New Storage Lifecycle Policy.



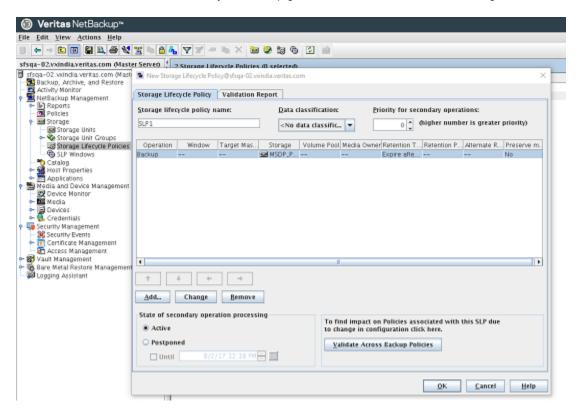
Enter a unique policy name for the policy. Click on the **Add** button.



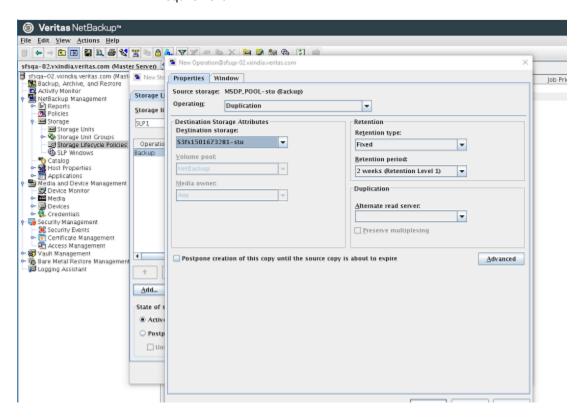
3 Select **Operation** as **Backup**, and set the destination pool to the MSDP pool that was created. Choose the **Retention type** based on your requirement.



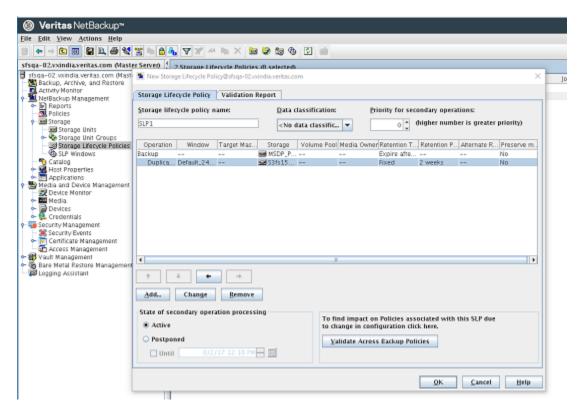
A new entry for Backup gets added. Click on the **Add** button again.



5 Select **Operation** as **Deduplication** and set the destination tier to the OST storage unit that was created. Choose the **Retention type** based on your requirement.



Both entries for SLP appear in the Storage Lifecycle Policy tab. The first operation is for Backup and the second operation is for Duplication.



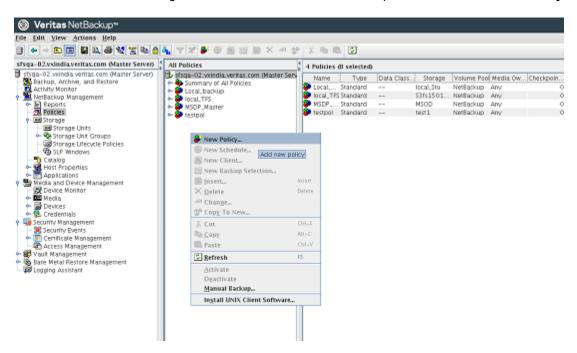
Backup and restore

After you complete the configurations, perform the following steps for backup and restore.

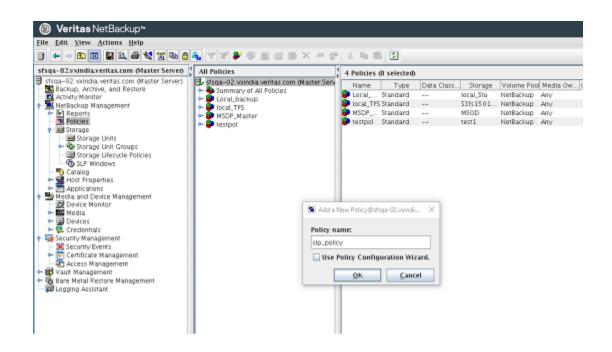
Policy creation

To create policies

Right-click on **Policies** within the NetBackup console and click on **New Policy**.

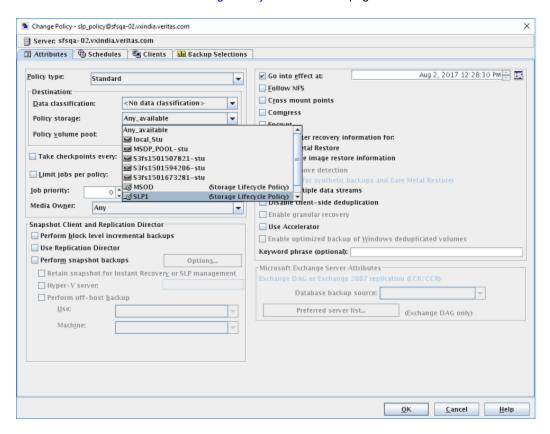


- 2 Provide the following information for policy creation.
 - Policy name
 - From the **Attributes** tab, select the appropriate storage unit under **Policy** storage.

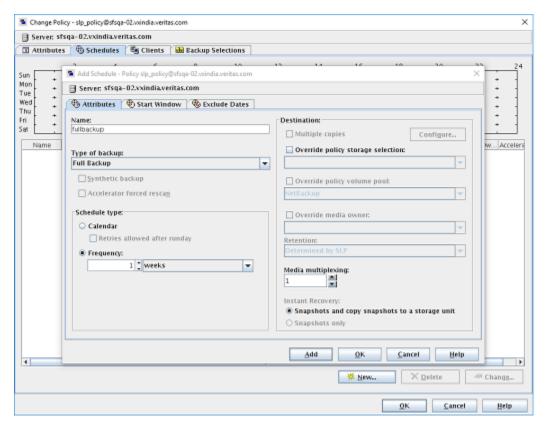


3 Under Policy storage, enter the name of the Storage Lifecycle Policy that was created.

See "Storage Lifecycle Policies" on page 43.

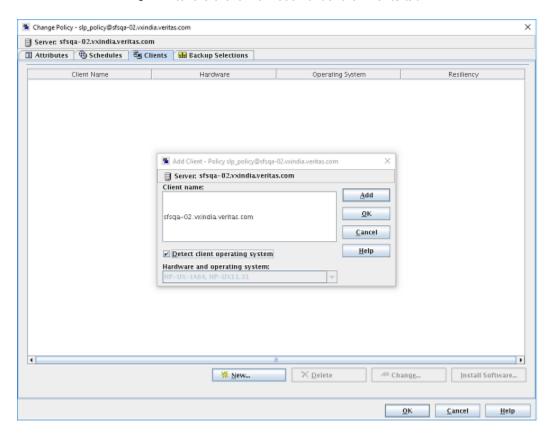


Enter the attribute information as per your requirement.

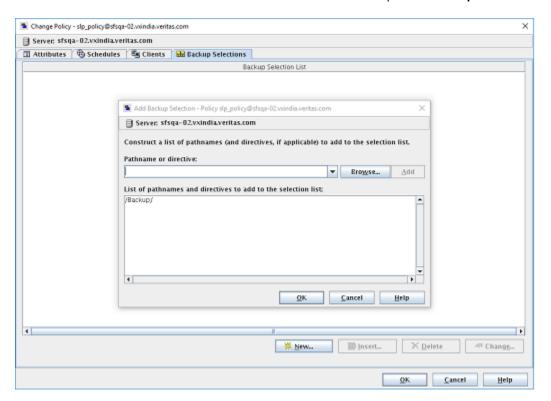


5 Under the Schedule tab, enter the name of the schedule. For example, fullbackup.

6 Enter the client information under the Clients tab.



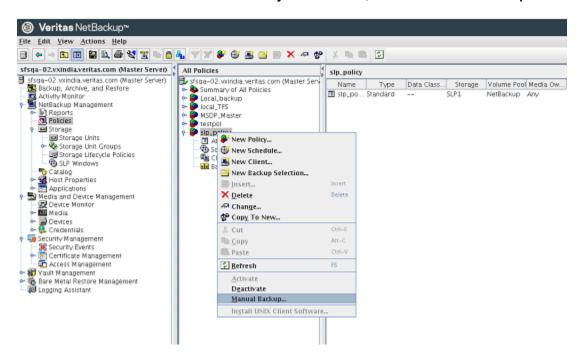
Select the folders that need to be backed up under **Backup Selections**.



Running a backup policy manually

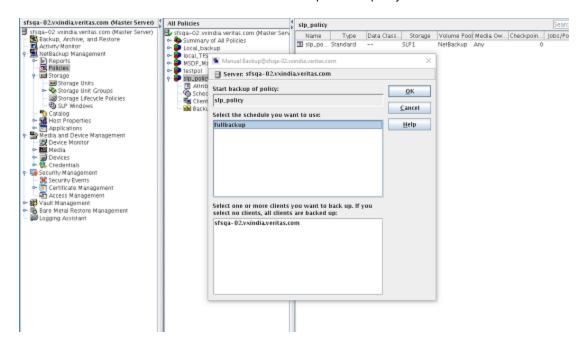
To run a backup policy manually

Once the policy is created, right-click on the name of the policy that you want to run under Summary of All Policies, and click on Manual Backup.

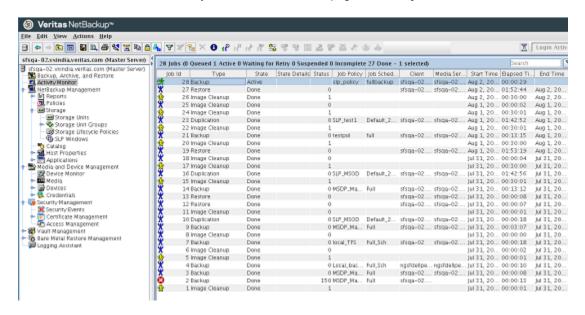


2 Select the schedule that you want to use and click **OK**.

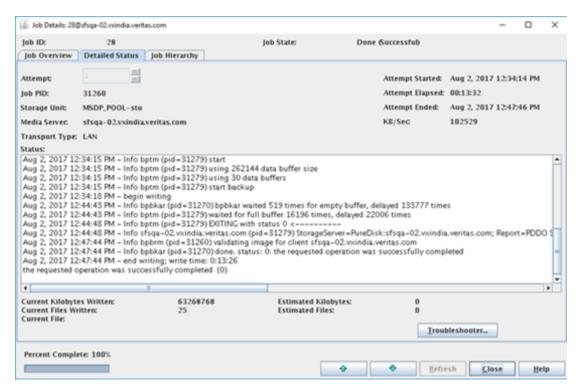
This starts the manual backup with the policy.



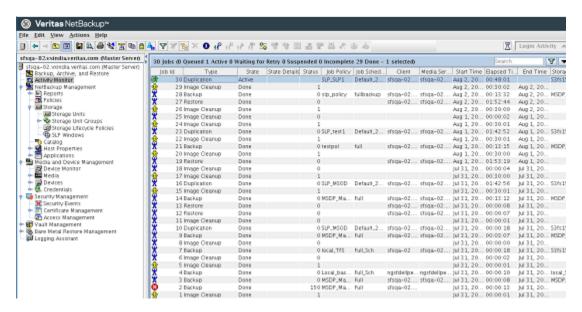
3 To verify the status of the backup, go to **Activity Monitor**.



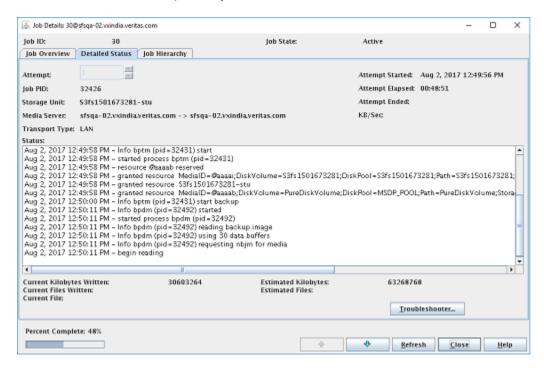
4 Select the appropriate job from the displayed jobs and click on the **Detailed** status tab in the new window to check on the status of the backup.



5 Once the above backup job is complete, a new duplication job is automatically triggered.



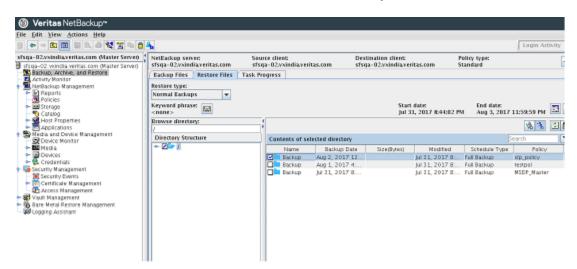
6 Click on that job and then select detailed status to check the status of the duplication job.



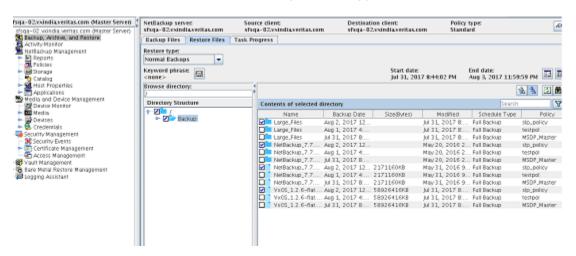
Restoring backed up files

To restore backed up files

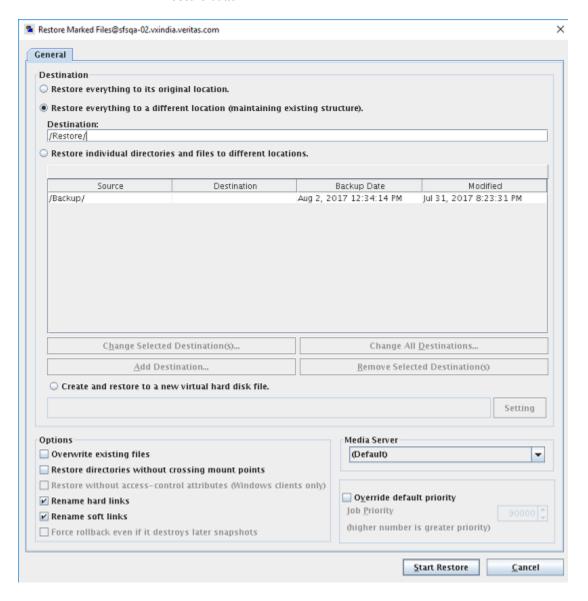
- 1 Create a directory where you want to restore the backed-up files.
- 2 Go to the Restore Files tab under Backup, Archive, Restore.



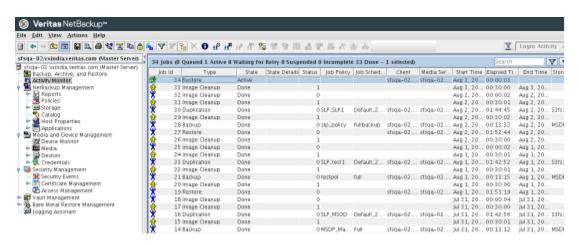
3 Go to the browse directory and select the appropriate files to restore and click Restore. The backup to be restored can reside either on NetBackup or on Veritas Access depending on the Storage Lifecycle Policy that is set. Hence, the restore location changes accordingly.



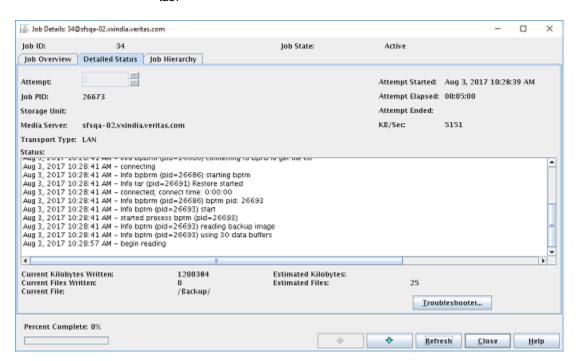
Enter the location where the files should be restored, and click on the Start Restore button.



To view the progress of the restore operation, click Yes on the Restore Initiated window.



You can view the progress of the restore operation under the **Detailed Status** tab.



Chapter 5

Troubleshooting

This chapter includes the following topics:

- Unmounting the SDFS volume before restarting Veritas Access or the NetBackup media server
- Log locations for troubleshooting
- Additional resources
- Generating Veritas Access S3 server keys using the helper script

Unmounting the SDFS volume before restarting Veritas Access or the NetBackup media server

Before restarting Veritas Access or the NetBackup media server, create a backup copy of the SDFS volume and unmount the SDFS volume.

To perform a clean unmount of the SDFS volume

- 1 Create a backup copy of the SDFS volume .xml file in the /etc/sdfs directory.
- **2** Unmount the SDFS volume and wait for the <code>jsvc</code> process to exit before restarting Veritas Access.
- 3 In case of OpenDedup on Veritas Access, use the following command to offline the OpenDedup volume:
 - # opendedup vol offline <vol name>

Where vol name is the OpenDepdup volume.

Log locations for troubleshooting

OpenDedup logs

- /opt/VRTSnas/log/odd.log
- /opt/VRTSnas/log/odd-vcs.log

Veritas Access S3 logs

- /opt/VRTSnas/log/portald.log
- /opt/VRTSnas/log/portald access.log

SDFS logs

SDFS creates its logs under

/var/logs/sdfs/<volume-name>-volume-cfg.xml.log. Errors can be identified in this log file.

OST plug-in logs

The OpenDedup OST plug-in log can be found in /tmp/logs/opendedup.log.

NetBackup logs

Pertinent OST-related errors and logging are trapped in the bptm log. NetBackup logging for bptm can be enabled by creating the bptm logging directory:

mkdir /usr/openv/netbackup/logs/bptm

Veritas Access support debug information upload command

CLISH> support debuginfo upload path

Additional resources

See the following documentation for more information on Veritas Access, OpenDedup, and Veritas NetBackup:

- Veritas Access Installation Guide for the supported NetBackup clients and the OpenDedup ports.
- Veritas Access Troubleshooting Guide for setting the NetBackup client log levels and debugging options.
- Veritas NetBackup product documentation on the SORT website.
- OpenDedup product documentation on the OpenDedup website.

Generating Veritas Access S3 server keys using the helper script

Create the access and the secret keys using the Veritas Access helper script in case you do not want to use the Active directory Domain user to create and own the buckets. This is an alternative way to get the Veritas Access S3 server credential keys.

- Location of the helper script: /opt/VRTSnas/scripts/utils/objectaccess/objectaccess client.py
- The Veritas Access helper script can be used from any client system that has Python installed.
- To run the script, your S3 client needs to have the argparse and requests Python modules.
 - If these modules are missing, install both these modules using pip or easy install.
- Add the ADMIN URL name in your /etc/hosts file. where the ADMIN URL is admin.<cluster name> and the port is 8144. This url should point to the Veritas Access management console IP address.
- Create the access and the secret key using the Veritas Access helper script by providing the user name, password, and ADMIN URL (check the online Help of the Veritas Access helper script for all of the provided operations like list key and delete key).

Create a secret key:

```
clus 01:~ # ./objectaccess_client.py --create_key
--server admin.clus:8144 --username localuser1 --password root123
--insecure
```

UserName : localuser1

AccessKeyId : Y2FkODU2NTU2MjVhYzV

Status : Active

SecretAccessKey : ODkOYzQxMDhkMmRjM2M5OTUzNjI5OWIzMDgyNzY

The <local user 1> is the local user created on both the Veritas Access cluster nodes with same unique ID.

List a secret key for the specified user:

```
clus 01:~ # ./objectaccess client.py --list key --server
admin.clus:8144 --username localuser2 --password root123 --insecure
```

Delete a secret key for the specified user:

```
clus_01:~ # ./objectaccess_client.py --delete_key
ZTkyNDdjZTViM2EyMWZ --server admin.clus:8144 --username localuser2
--password root123 --insecure
```

■ If the object server is enabled without the SSL option, you need to add the --insecure option.

```
clus 01 ~# ./objectaccess_client.py --server
admin.clus:8144 --username <uname> --create_key --insecure
```

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