Veritas Access 7.3 NetBackup Solutions Guide

Linux

7.3



Veritas Access NetBackup Solutions Guide

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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 is a software-defined scale-out network-attached storage (NAS) solution for unstructured data that works on commodity hardware. 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

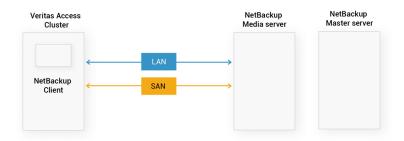
Settings > NetBackup Configuration

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.

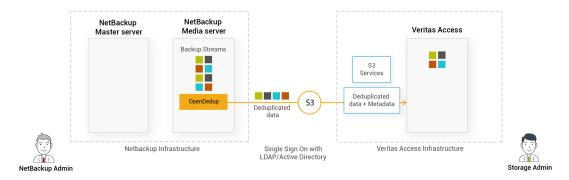
Veritas Access is based on the rock-solid and industry-proven Veritas CFS stack. It offers an AWS-compatible S3 protocol as object storage for NetBackup.

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

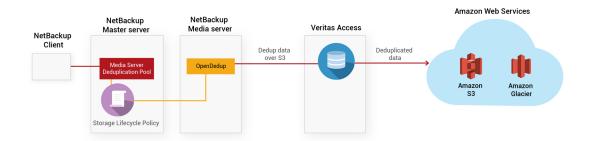


Use cases for long-term data retention

The following are the use cases for long-term data retention (LTR) with OpenDedup:

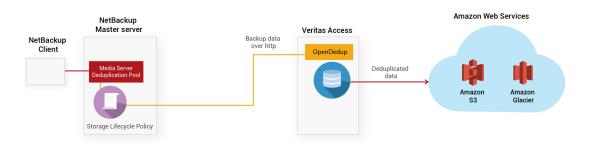
Use Case 1: OpenStorage Technology (OST) and OpenDedup hosted on a NetBackup master and/or media server that sends deduplicated backup data to Veritas Access over the S3 protocol. Veritas Access can move this deduplicated data to Amazon Web Services (AWS) S3 or Glacier. See "Use case 1: Backing up deduplicated data (OpenDedup and NetBackup) using the S3 protocol to Veritas Access" on page 14.

Figure 1-3



Use Case 2: OST hosted on a NetBackup master and/or media server sends backup data to OpenDedup hosted on Veritas Access, which deduplicates the data and sends this data over the S3 protocol to Veritas Access. Veritas Access moves this deduplicated data to AWS S3 or Glacier. See "Use case 2: Backing up data (NetBackup) and deduplicating the data

Figure 1-4



(OpenDedup) on Veritas Access" on page 14.

Chapter 2

System requirements

This chapter includes the following topics:

- System requirements for OpenDedup installation
- Supported configurations and versions

System requirements for OpenDedup installation

The system requirements for OpenDedup installation are:

- 4GB base memory + 256MB RAM per TB of unique storage
- 120 MB/s per CPU core
- 200 MB/s local disk speed
- 2K IOPS for local media server disk subsystem
- 0 .2 % local disk of logical storage on a NetBackup media server
- 0.2% local disk storage of unique data on a NetBackup media server
- 100 GB (minimum) of OpenDedup volume

Supported configurations and versions

Table 2-1Supported versions

OpenDedup	Veritas Access	Veritas NetBackup servers	оѕт
3.4.7.1	7.3	7.7.3 and 8.0	2.0
		(Linux only)	

Download links:

Veritas Access: Veritas Access 7.3 DVD

OpenDedup:

https://sort.veritas.com/public/patchcentral/Linux/7.3/ access/access-rhel6_x86_64-7.3sdfs.tar.gz

OpenStorage Technology (OST):

https://sort.veritas.com/public/patchcentral/Linux/7.3/ access/access-rhel6_x86_64-7.3ost.tar.gz

Chapter 3

Configuring Veritas Access backup over S3 with OpenDedup and NetBackup

This chapter includes the following topics:

- Benefits of using Veritas Access with NetBackup and OpenDedup
- Workflow for OpenDedup
- Use case 1: Backing up deduplicated data (OpenDedup and NetBackup) using the S3 protocol to Veritas Access
- Use case 2: Backing up data (NetBackup) and deduplicating the data (OpenDedup) on Veritas Access
- 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
- Creating an OST disk pool and STU in the NetBackup console
- Setting up multiple NetBackup media servers in the same domain
- Setting up multiple SDFS volumes on a NetBackup media server

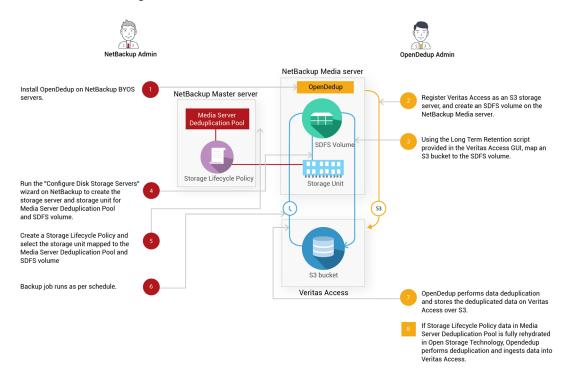
Benefits of using Veritas Access with NetBackup and OpenDedup

- 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).

Workflow for OpenDedup

Figure 3-1 illustrates the workflow for OpenDedup for Veritas Access.

Figure 3-1 Workflow for OpenDedup



Use case 1: Backing up deduplicated data (OpenDedup and NetBackup) using the S3 protocol to Veritas Access

SDFS is an inline deduplication-based file system.

SDFS Volume must be at least 100 GB.

The SDFS Version must be 3.5.x.

Download SDFS from http://www.opendedup.org/sdfs-3.5.4.0-1.x86 64.rpm

Download the OST from http://www.opendedup.org/ost-2.1.4.tar.gz

To download and install the OST and SDFS rpms

On a standard NetBackup master and/or media server, run the following commands to install OST:

```
# wget https://sort.veritas.com/public/patchcentral/Linux/7.3/access
/access-rhel6_x86_64-7.3ost.tar.gz
# tar -xzvf access-rhel6_x86_64-7.3ost.tar.gz
# cd patches/
# tar -zxvf access-ost-7.3.tar.gz
# cd dist
# ./media-install.sh
```

2 Restart the NetBackup service on the NetBackup media server.

```
# /etc/init.d/netbackup stop
# /etc/init.d/netbackup start
```

Use case 2: Backing up data (NetBackup) and deduplicating the data (OpenDedup) on Veritas Access

SDFS is an inline deduplication-based file system.

SDFS Volume must be at least 100 GB.

The SDFS Version must be 3.5.x.

Download SDFS from http://www.opendedup.org/sdfs-3.5.4.0-1.x86 64.rpm

Download the OST from http://www.opendedup.org/ost-2.1.4.tar.gz

To download and install the OST and SDFS rpms

On a standard NetBackup master and/or media server, run the following commands to install the OST:

```
# wget https://sort.veritas.com/public/patchcentral/Linux/7.3/access/
access-rhel6 x86 64-7.3ost.tar.gz
# tar -xzvf access-rhel6 x86 64-7.3ost.tar.gz
# cd patches/
# tar -xzvf access-ost-7.3.tar.gz
# cd dist
# ./media-install.sh
```

2 On the Veritas Access server hosting the management console, run the following commands to install the Opendedup SDFS rpm:

```
# wget https://sort.veritas.com/public/patchcentral/Linux/7.3/access/
access-rhel6_x86_64-7.3sdfs.tar.gz
# tar -zxvf access-rhel6 x86 64-7.3sdfs.tar.gz
# yum -y install fuse
# rpm -ivh rpms/sdfs-3.4.7-1.x86 64.rpm
```

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/.
```

You can obtain the Veritas Access Management console IP by logging on to the CLISH using the su - master command on the Veritas Access cluster.

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.

3 Click Settings > Service 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 Double-click **S3 Server Status** to start the S3 server.
- 6 Log out from the GUI, and log in again as an AD user.

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

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.

- 7 Log out from the GUI, and log on again as the master user.
- Registration of Amazon Web Services (AWS) 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 AWS cloud service.

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

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.

10 Provision the NetBackup bucket using the policy.

Under Quick Actions, click Provision for NetBackup.

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.

- 13 Right-click the ellipses (additional options), and click **Generate LTR Script**.
- **14** Copy the LTR script to the host where OpenDedup is installed. It can be the host where the NetBackup media server is installed or the Veritas Access server.

15 Run the downloaded LTR script. The LTR script requires the Veritas Access S3 keys (access and secret key) as arguments that were generated as the AD user.

The LTR script creates the OpenDedup file system and prompts for the entry in the /etc/hosts file for the bucket to IP address mapping.

Output of LTR script execution:

```
[root@host1 ~]# sh LTRscript <fsname/volname> <bucketname>.sh
<Access key> <Secret Key>
______
```

Insert the below details in /etc/hosts file 10.100.100.1 4f459a2d-736e-4be5-9c5a-f821fbc198fds3bucket.s3.access ______

Attempting to create SDFS volume ...

Volume [S3fs1497356186] created with a capacity of [10.00GB] check [/etc/sdfs/S3fs1497356186-volume-cfg.xml] for configuration details if you need to change anything

Note: The volume name highlighted above and its equivalent .xml file are used to mount and update the SDFS volume parameters in later steps.

16 Add the IP associated with the virtual hosted-style bucket name (generated from the LTR script) in the /etc/hosts file on the media server.

17 Mount the SDFS volume under /opendedupe/volumes/ on the host where

mkdir /opendedupe/volumes/filesystem name

OpenDedup is installed.

mount -t sdfs filesystem name /opendedupe/volumes/filesystem name

The mount command mounts a bucket on the Veritas Access cluster or the NetBackup media server.

Note: After mounting the SDFS volume, it will start listening on a specific port, usually starting from 6442. If OpenDedup is installed on Veritas Access, then ensure that the corresponding firewall rules are updated to allow traffic to this port.

Port information can be found using the mount command.

Example:

```
[root@host1 ~]# mount | grep opendedupe
sdfs:/etc/sdfs/S3fs1497346133-volume-cfg.xml:6443 on
/opendedupe/volumes/S3fs1497346133 type fuse
(rw,nosuid,nodev,allow other,allow other)
sdfs:/etc/sdfs/S3fs1497258807-volume-cfg.xml:6442 on
/opendedupe/volumes/pool1 type fuse
(rw, nosuid, nodev, allow other, allow other)
```

18 (Optional) Add the volume to fstab by adding the following line in: /etc/fstab.

```
filesystem\ name\ /opendedupe/volumes/filesystem\ name\ sdfs\ defaults\ 0\ 0
```

19 Update the URL tag in the /etc/sdfs/ostconfig.xml present on the NetBackup media server based on the following two cases:

Use case 1: OpenDedup on a NetBackup server

```
<URL>
http://localhost:6442/
</URL>
OpenDedup on separate Media server
<URL>
http://<media server hostname>:6442/
</URL>
```

Use case 2: OpenDedup on Veritas Access

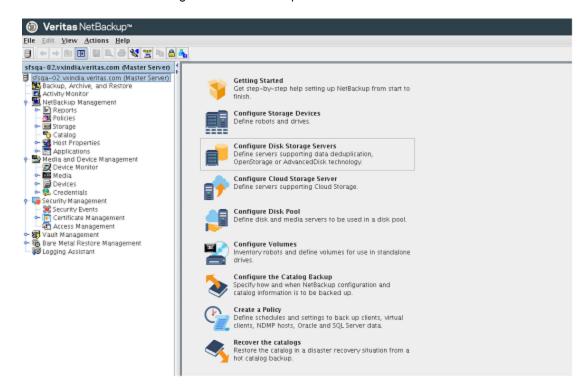
```
http://<Veritas Access server hostname>:6442/
</URL>
```

Note: The Veritas Access server hostname should be DNS-resolvable and reachable from the NetBackup server. This should be the same node in the Veritas Access cluster where the SDFS volume is mounted in step 17.

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.



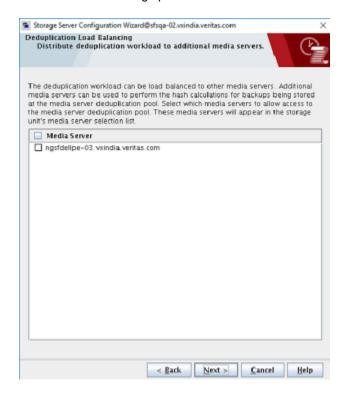
3 Enter the user name, password, and other required details.



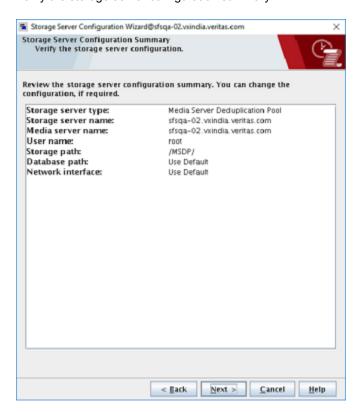
Enter the storage path for MSDP.



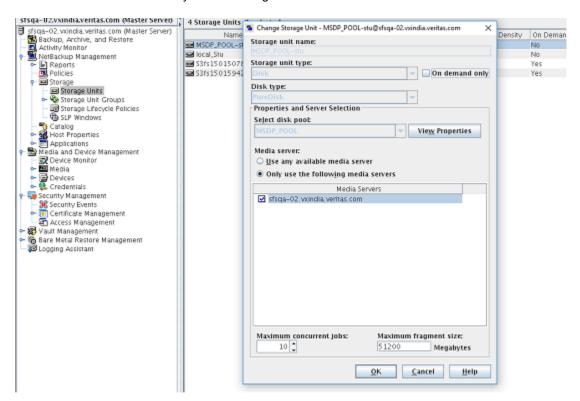
5 Enter the load balancing options to distribute the workload.



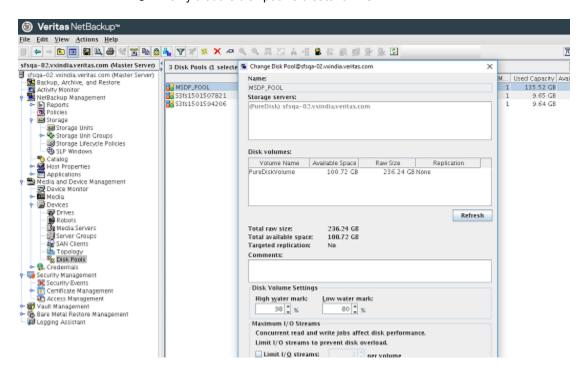
6 Verify the storage server configuration summary.



7 Verify that the storage unit is created for MSDP.



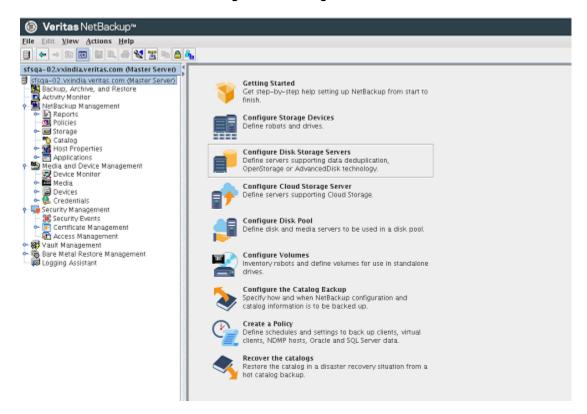
Verify that the disk pool is create for MSDP.



Creating an OST disk pool and STU in the NetBackup console

To create an OpenStorage Technology (OST) disk pool and storage unit (STU) in the NetBackup console

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



3 Select the OpenStorage option from the Select the type of disk storage that you want to configure section of the dialog.

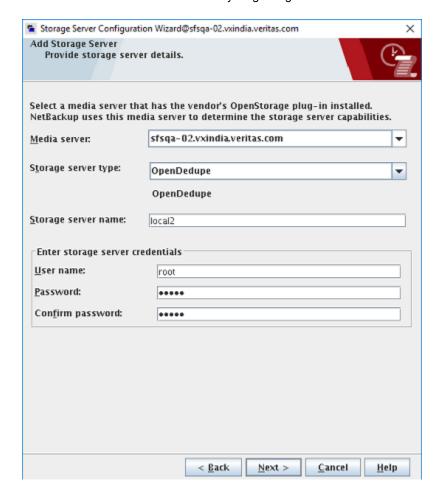


- Add the following options to the **Storage Server Details**:
 - Storage server type: OpenDedupe

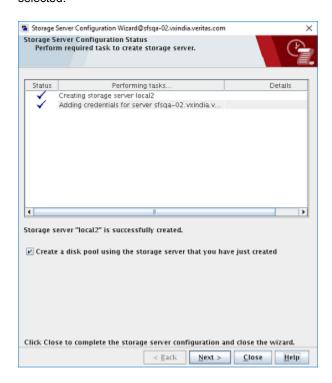
Note: The **Storage server type** field is case-sensitive. **OpenDedupe** has to be entered exactly as shown in the screen shot.

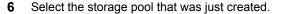
Storage Server name: The name in the <NAME></NAME> tag in the /etc/sdfs/ostconfig.xml file. This is local by default.

- **Username**: Anything can go in this field. It is not used.
- Password/Confirm Password: Anything can go in this field as well.



5 Finish supplying entries for the storage configuration wizard and make sure Create a disk pool using the storage server that you just created is selected.



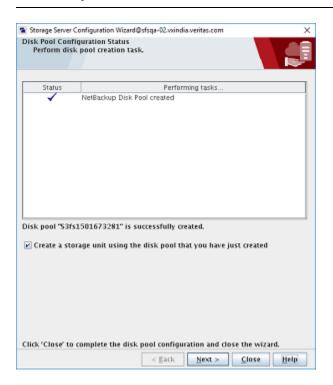


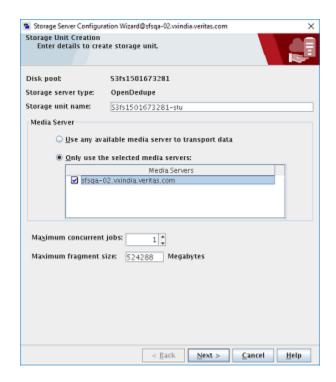


- 7 Add a disk pool name.
- Finish the wizard entries and select Create a storage unit using the disk pool that you just created.

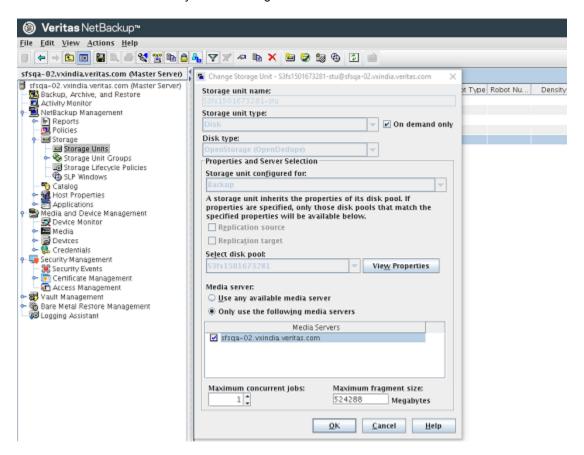
9 In the Storage Unit Creation page, select Only use the selected media servers and select the media server that the storage was created on. For maximum concurrent jobs select 8.

Note: If you plan to run concurrent jobs for this STU, increase the Maximum concurrent jobs count to the desired value.

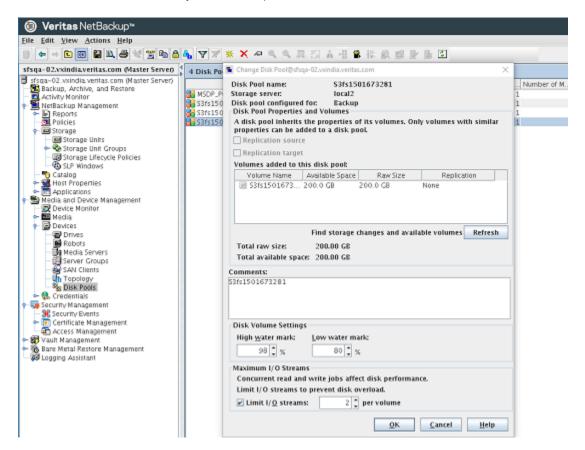




10 Verify that the storage unit is added.



11 Verify that the disk pool is added.



Setting up multiple NetBackup media servers in the same domain

To set up the OST connector on multiple NetBackup media servers in the same domain, additional steps must be taken on each NetBackup media server before adding the storage pools in NetBackup.

To set up multiple NetBackup media servers in the same domain

- Follow the instructions for setting up the OST connector on each media server that uses the OST connector.
 - See "Use case 1: Backing up deduplicated data (OpenDedup and NetBackup) using the S3 protocol to Veritas Access" on page 14.
- 2 Edit /etc/sdfs/ostconfig.xml and change the <name> tag to something unique in the NetBackup domain, such as the host name with an incremented number, for example:

<NAME>hostname-0</NAME>

Follow the instructions in the "Creating an OST disk pool and STU in the NetBackup console" section and use the name in the <NAME> tag as the Storage Server name.

See "Creating an OST disk pool and STU in the NetBackup console" on page 29.

See "Use case 1: Backing up deduplicated data (OpenDedup and NetBackup) using the S3 protocol to Veritas Access" on page 14.

Setting up multiple SDFS volumes on a NetBackup media server

The OST connector supports multiple SDFS volumes on the same media server but additional steps are required to support this configuration.

To set up multiple SDFS volumes on a NetBackup media server

Follow the instructions for setting up the OST connector on each NetBackup media server that uses the OST connector.

See "Use case 1: Backing up deduplicated data (OpenDedup and NetBackup) using the S3 protocol to Veritas Access" on page 14.

Edit the /etc/sdfs/ostconfig.xml and add a new <CONNECTION> tag inside of the <CONNECTIONS> tag for the new volume.

Add a name that is unique to the <NAME> tag and specify the new volume name in the <LSU NAME> tag (pool1).

In the new <CONNECTION> tag, add the port number identified by running the mount command to the <URL> tag (http://localhost:6443/) as shown in the example output.

```
[root@host1 ~] # mount | grep opendedupe
sdfs:/etc/sdfs/S3fs1497346133-volume-cfg.xml:6443 on
/opendedupe/volumes/S3fs1497346133 type fuse
(rw, nosuid, nodev, allow other, allow other)
sdfs:/etc/sdfs/S3fs1497258807-volume-cfg.xml:6442 on
/opendedupe/volumes/pool1 type fuse
(rw, nosuid, nodev, allow other, allow other)
```

The following is a complete example of an ostconfig.xml file with two volumes.

```
<!-- This is the config file for the OST connector for opendedup and Netbackup -->
<CONNECTIONS>
<CONNECTION>
<!--NAME is the local server name that you will reference within Netbackup -->
<NAME>
local
</NAME>
<LSU NAME>
svol4
</LSU NAME>
<URL>
http://localhost:6442/
<!--PASSWD - The password of the volume if one is required for this sdfs volume -->
<PASSWD>admin</PASSWD>
<SERVER SHARE PATH>
A SUBDIRECTORY UNDER THE MOUNT PATH
</SERVER SHARE PATH>
-->
</CONNECTION>
<!-- Below is the new volume-->
<CONNECTION>
<!--NAME is the local server name that you will reference within Netbackup -->
<NAME>
```

```
hostname0
</NAME>
<LSU NAME>
svol10
</LSU NAME>
<URL>
http://localhost:6443/
</URL>
<!--PASSWD - The password of the volume if one is required for this sdfs volume -->
<PASSWD>admin</PASSWD>
<!--
<SERVER_SHARE_PATH>
A SUBDIRECTORY UNDER THE MOUNT PATH
</SERVER SHARE PATH>
-->
</CONNECTION>
</CONNECTIONS>
```

Chapter

Configuring backup and restore using NetBackup policies

This chapter includes the following topics:

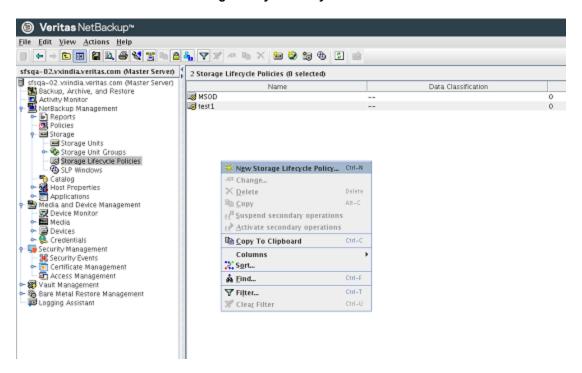
- Storage Lifecycle Policies
- Backup and restore
- Running a backup policy manually
- Restoring backed up files

Storage Lifecycle Policies

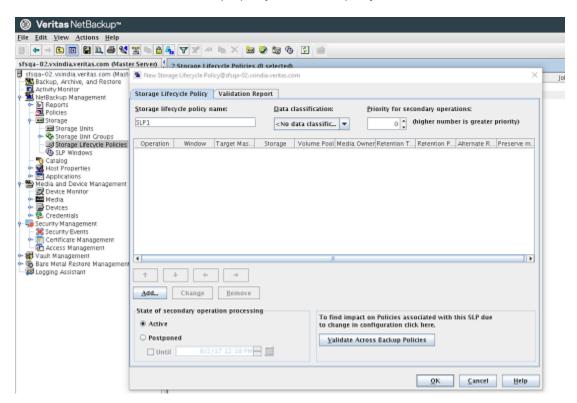
You can create Storage Lifecycle Policies (SLP).

To create Storage Lifecycle Policies

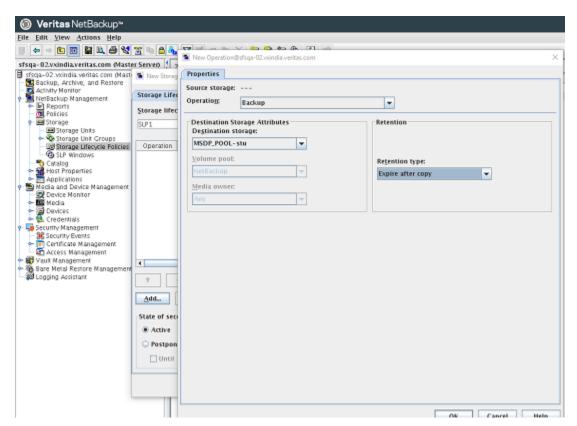
Click Storage -> Storage Lifecycle Policies on the NetBackup console. Select New Storage Lifecycle Policy.



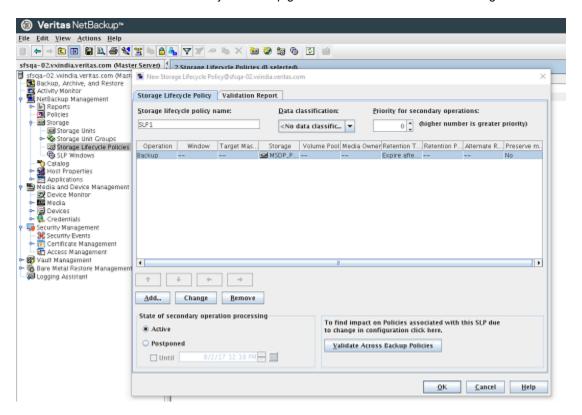
Enter a unique policy name for the policy. Click on the **Add** button.



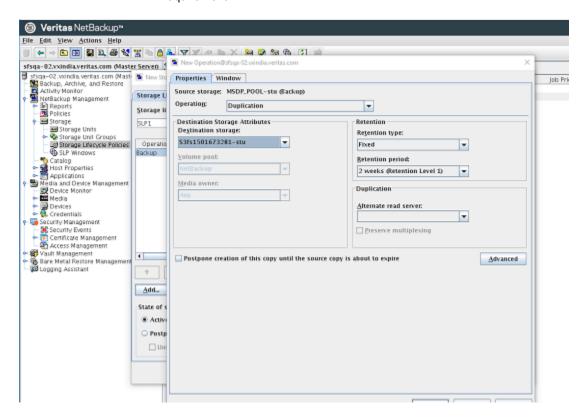
3 Select **Operation** as **Backup**, and set the destination pool to the MSDP pool that was created. Choose the **Retention type** based on your requirement.



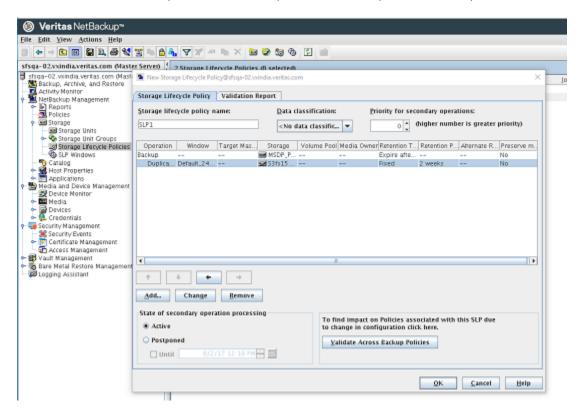
A new entry for Backup gets added. Click on the **Add** button again.



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.



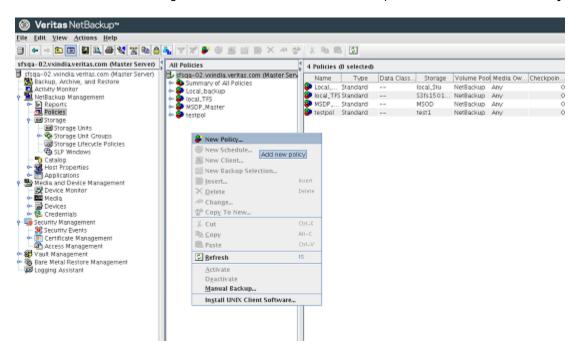
Backup and restore

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

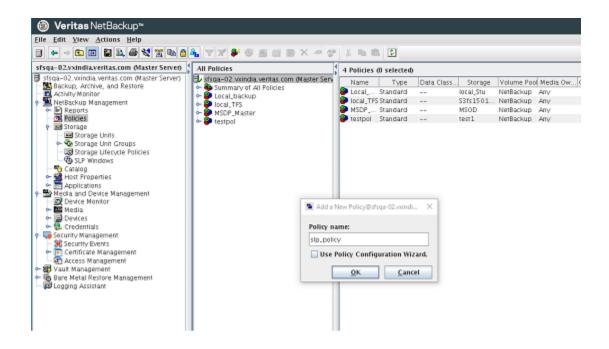
Policy creation

To create policies

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

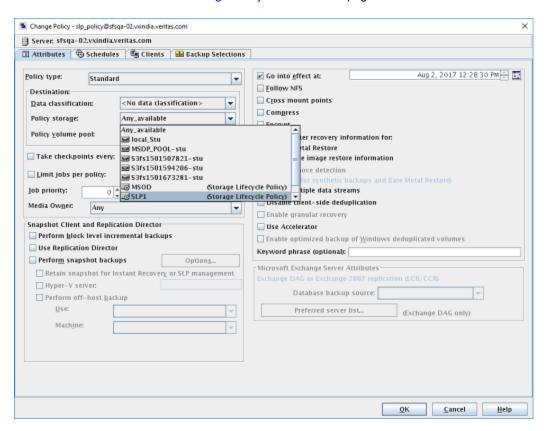


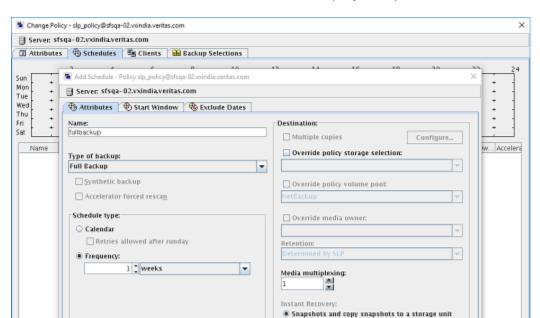
- 2 Provide the following information for policy creation.
 - Policy name
 - From the **Attributes** tab, select the appropriate storage unit under **Policy** storage.



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

See "Storage Lifecycle Policies" on page 42.





Enter the attribute information as per your requirement.

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

Cancel

X Delete

Help

Cancel

All Change...

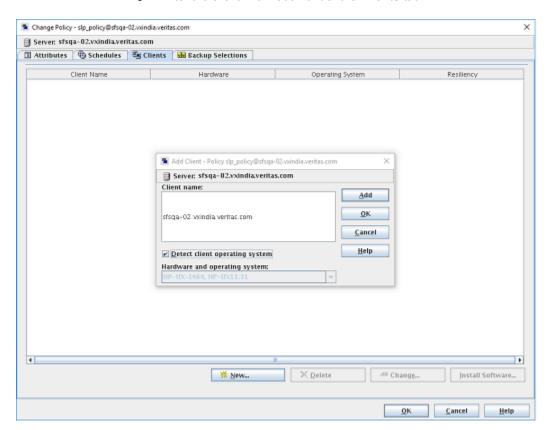
Help

O Snapshots only

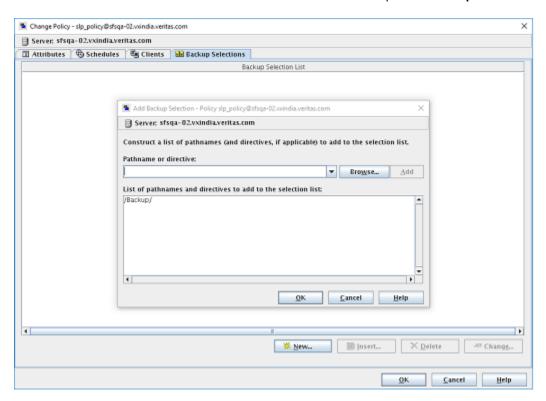
Add

4

6 Enter the client information under the Clients tab.



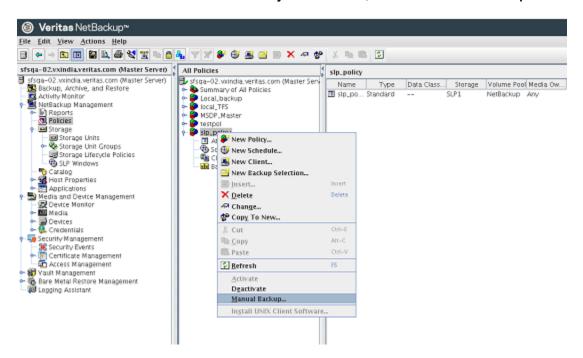
Select the folders that need to be backed up under **Backup Selections**.



Running a backup policy manually

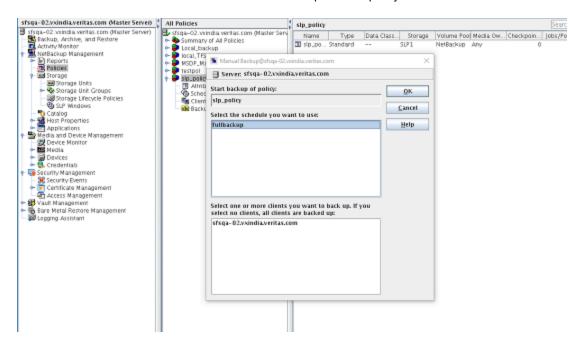
To run a backup policy manually

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.

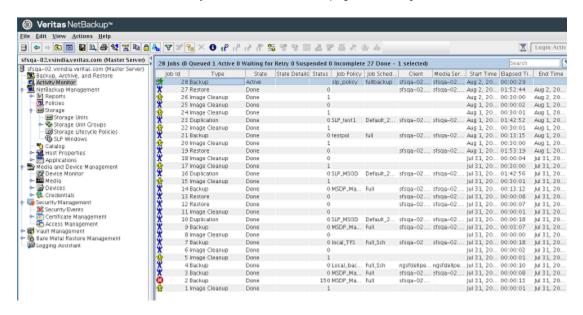


2 Select the schedule that you want to use and click **OK**.

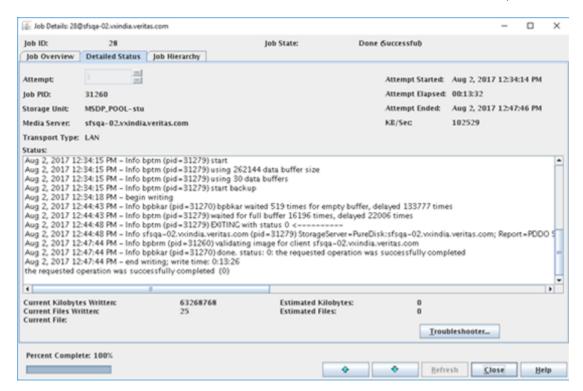
This starts the manual backup with the policy.



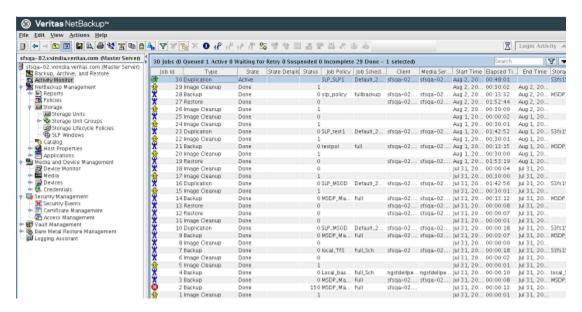
3 To verify the status of the backup, go to **Activity Monitor**.



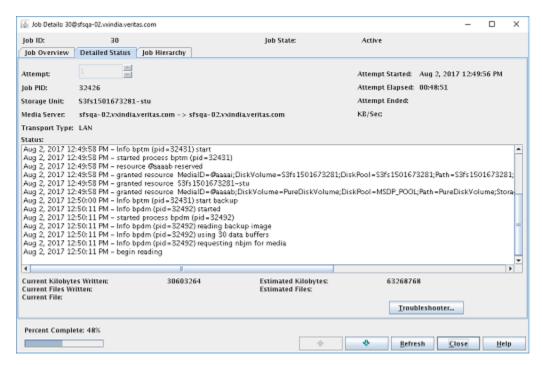
4 Select the appropriate job from the displayed jobs and click on the **Detailed** status tab in the new window to check on the status of the backup.



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



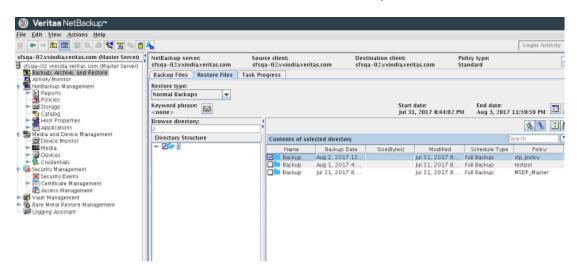
6 Click on that job and then select detailed status to check the status of the duplication job.



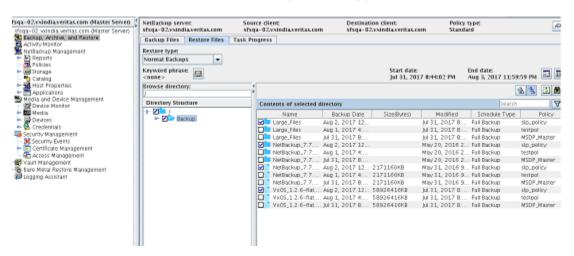
Restoring backed up files

To restore backed up files

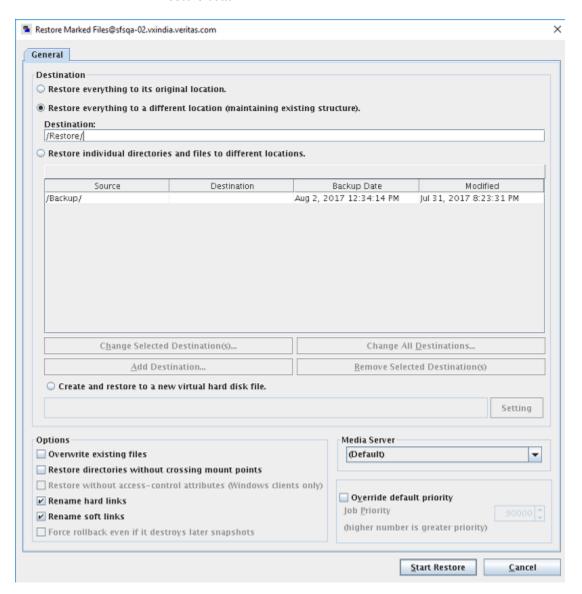
- 1 Create a directory where you want to restore the backed-up files.
- Go to the Restore Files tab under Backup, Archive, Restore.



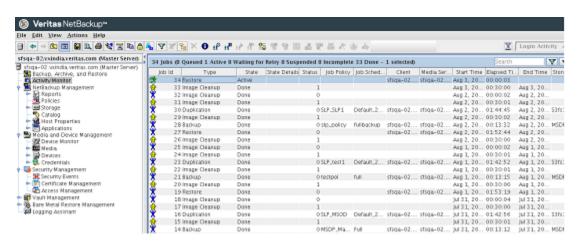
Go to the browse directory and select the appropriate files to restore and click Restore. The backup to be restored can reside either on NetBackup or on Veritas Access depending on the **Storage Lifecycle Policy** that is set. Hence, the restore location changes accordingly.



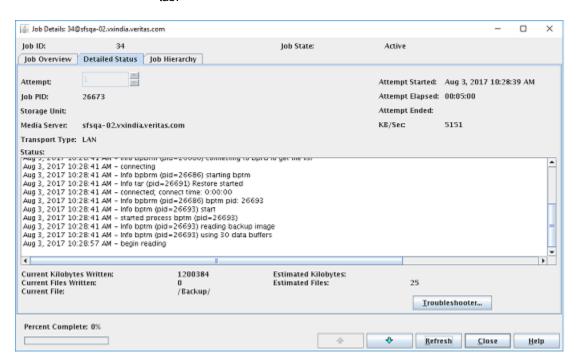
Enter the location where the files should be restored, and click on the Start Restore button.



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 jsvc process to exit before restarting Veritas Access.

Log locations for troubleshooting

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

: Active Status

SecretAccessKey : ODk0YzQxMDhkMmRjM2M5OTUzNjI5OWIzMDgyNzY

The <localuser1> 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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