

NetBackup™ Release Notes

Release 10.3.0.1

Document Version 1

NetBackup™ Release Notes

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Veritas Services and Operations Readiness Tools (SORT)

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

Contents

Chapter 1	About NetBackup 10.3.0.1	7
	About the NetBackup 10.3.0.1 release	7
	About NetBackup Late Breaking News	8
	About NetBackup third-party legal notices	8
Chapter 2	New features, enhancements, and changes	9
	About new enhancements and changes in NetBackup	9
	NetBackup 10.3.0.1 new features, changes, and enhancements	10
	Changes in Veritas terminology	11
	Data collector registration using the NetBackup web UI	11
	NetBackup 10.3.0.1 support additions and changes	11
	Several shutdown commands to be deprecated in a future release	12
	Isolated recovery environment is supported on SUSE Linux	12
	Enterprise Server NetBackup BYO	12
	Update cloud configuration file on the primary server immediately	13
	after install or upgrade to NetBackup 10.3.0.1	13
	NetBackup supports virtual machines within Oracle Linux	13
	Virtualization Manager (OLVM) deployments	13
	NetBackup Dedupe Direct for Oracle plug-in support for Flex Scale	14
Chapter 3	Operational notes	15
	About NetBackup 10.3.0.1 operational notes	15
	NetBackup installation and upgrade operational notes	16
	If NetBackup 10.3.0.1 upgrade fails on Windows, revert to previous	16
	log folder structure	16
	Native installation requirements	16
	NetBackup servers must use a host name that is compliant with	17
	RFC 1123 and RFC 952	17
	About support for HP-UX Itanium vPars SRP containers	17
	NetBackup administration and general operational notes	18
	For some workload environments, reduce the size of the job	18
	database before upgrade	18

Policies using Replication Director fail with error code 4224	18
Failed to get response from NetBackup malware utility	19
NetBackup administration interface operational notes	19
Delay in NetBackup web UI when adding or removing columns in Catalog area	20
Intermittent issues with X forwarding of NetBackup Administration Console	20
NetBackup Administration Console fails in Simplified Chinese UTF-8 locale on Solaris SPARC 64-bit systems with Solaris 10 Update 2 or later	20
NetBackup Bare Metal Restore operational notes	20
After PIT restore, "The host ID does not exist" error appears	21
AIX BMR Shared Resource Tree (SRT) creation fails in NetBackup 10.3.0.1	21
NetBackup services may not start automatically after BMR restore on a Linux client	22
NetBackup Cloud Object Store Workload operational notes	22
Auto Image Replication (AIR) from NetBackup version 10.3 to 10.1 does not work	22
For Azure, backups fail when an older policy is updated with a new backup host	22
Replicated backups cannot be restored to older NetBackup versions	23
NetBackup Snapshot Manager (formerly NetBackup CloudPoint)	23
Indexing not supported on instances created from AWS Marketplaces AMIs	23
Verifying the storage array certificate	23
NetBackup NAS operational notes	24
Parent directories in the path of a file may not be present in an NDMP incremental image	24
RD storage units are not listed as Replication targets	24
NetBackup for OpenStack operational notes	24
CentOS repository mirror URL is updated	25
NetBackup for OpenStack Datamover API (NBOSDMAPI) service times out in the haproxy connection	25
Instance volumes in the incremental backups cannot be mounted	25
NetBackup primary server does not re-issue the token if NetBackup VM is a 3-node cluster	25
Success message appears along with the error message when you delete the policy that has snapshots	25
Unable to connect to NetBackup primary server using NBICA	26

	Excluded Ceph Volume after restore is not mountable or formattable	26
	Restored VMs have blank metadata config_drive attached	26
	NBOSVM reconfig fails when you add new NetBackup VM to the cluster	26
	Database does not sync after NetBackup cluster gets new nodes	27
	Data on boot disk gets backed up despite exclusion	27
	After reinitialization and import, OpenStack certificates are missing	27
	CLI import changes scheduler trust value to disabled	27
	Unable to get node details after you reinitialize the NetBackup Appliance	27
	No operation is permitted in insecure way for SSL-enabled Keystone URL	28
	NetBackup internationalization and localization operational notes	28
	Support for localized environments in database and application agents	28
	Certain NetBackup user-defined strings must not contain non-US ASCII characters	29
Appendix A	About SORT for NetBackup Users	30
	About Veritas Services and Operations Readiness Tools	30
Appendix B	NetBackup installation requirements	32
	About NetBackup installation requirements	32
	Required operating system patches and updates for NetBackup	33
	NetBackup 10.3.0.1 binary sizes	34
Appendix C	NetBackup compatibility requirements	37
	About compatibility between NetBackup versions	37
	About NetBackup compatibility lists and information	38
	About NetBackup end-of-life notifications	38
Appendix D	Other NetBackup documentation and related documents	40
	About related NetBackup documents	40

About NetBackup 10.3.0.1

This chapter includes the following topics:

- [About the NetBackup 10.3.0.1 release](#)
- [About NetBackup Late Breaking News](#)
- [About NetBackup third-party legal notices](#)

About the NetBackup 10.3.0.1 release

The *NetBackup Release Notes* document is meant to act as a snapshot of information about a version of NetBackup at the time of its release. Old information and any information that no longer applies to a release is either removed from the release notes or migrated elsewhere in the NetBackup documentation set.

See [“About new enhancements and changes in NetBackup”](#) on page 9.

About EEBs and release content

NetBackup 10.3.0.1 incorporates fixes to many of the known issues that affected customers in previous versions of NetBackup. Some of these fixes are associated with the customer-specific issues. Several of the customer-related fixes that were incorporated into this release were also made available as emergency engineering binaries (EEBs).

Listings of the EEBs and Etracks that document the known issues that have been fixed in NetBackup 10.3.0.1 can be found on the Veritas Operations Readiness Tools (SORT) website and in the *NetBackup Emergency Engineering Binary Guide*.

See [“About Veritas Services and Operations Readiness Tools”](#) on page 30.

About NetBackup appliance releases

The NetBackup appliances run a software package that includes a preconfigured version of NetBackup. When a new appliance software release is developed, the

latest version of NetBackup is used as a basis on which the appliance code is built. For example, NetBackup Appliance 3.1 is based on NetBackup 8.1. This development model ensures that all applicable features, enhancements, and fixes that were released within NetBackup are included in the latest release of the appliance.

The NetBackup appliance software is released at the same time as the NetBackup release upon which it is based, or soon thereafter. If you are a NetBackup appliance customer, make sure to review the *NetBackup Release Notes* that correspond to the NetBackup appliance version that you plan to run.

Appliance-specific documentation is available at the following location:

<http://www.veritas.com/docs/000002217>

About NetBackup Late Breaking News

For the most recent NetBackup news and announcements, visit the NetBackup Late Breaking News website at the following location:

<http://www.veritas.com/docs/000040237>

Other NetBackup-specific information can be found at the following location:

https://www.veritas.com/support/en_US/15143.html

About NetBackup third-party legal notices

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The proprietary notices and the licenses for these third-party programs are documented in the *NetBackup Third-party Legal Notices* document, which is available at the following website:

<https://www.veritas.com/about/legal/license-agreements>

New features, enhancements, and changes

This chapter includes the following topics:

- [About new enhancements and changes in NetBackup](#)
- [NetBackup 10.3.0.1 new features, changes, and enhancements](#)

About new enhancements and changes in NetBackup

In addition to new features and product fixes, NetBackup releases often contain new customer-facing enhancements and changes. Examples of common enhancements include new platform support, upgraded internal software components, interface changes, and expanded feature support. Most new enhancements and changes are documented in the *NetBackup Release Notes* and the NetBackup compatibility lists.

Note: The *NetBackup Release Notes* only lists the new platform support that begins at a particular NetBackup version level at the time of its release. However, Veritas routinely backdates platform support to previous versions of NetBackup. Refer to the [NetBackup Compatibility List for all Versions](#) for the most up-to-date platform support listings.

See [“About the NetBackup 10.3.0.1 release”](#) on page 7.

See [“About NetBackup compatibility lists and information”](#) on page 38.

NetBackup 10.3.0.1 new features, changes, and enhancements

New features, changes, and enhancements in NetBackup 10.3.0.1 are grouped below by category. Select a link to read more information about the topic.

New features

- [Changes in Veritas terminology](#)
- [Data collector registration using the NetBackup web UI](#)

Secure communication features, changes, and enhancements

- **Note:** Before you install or upgrade to NetBackup 10.3.0.1 from a release earlier than 8.1, make sure that you read and understand the *NetBackup Read This First for Secure Communications* document. NetBackup 8.1 includes many enhancements that improve the secure communications of NetBackup components. The *NetBackup Read This First for Secure Communications* document describes the features and benefits of these enhancements:

[NetBackup Read This First for Secure Communications](#)

Support changes and enhancements

- [NetBackup 10.3.0.1 support additions and changes](#)
- [Several shutdown commands to be deprecated in a future release](#)
- [Isolated recovery environment is supported on SUSE Linux Enterprise Server NetBackup BYO](#)

Cloud-related changes and enhancements

- [Update cloud configuration file on the primary server immediately after install or upgrade to NetBackup 10.3.0.1](#)

Virtualization changes and enhancements

- [NetBackup supports virtual machines within Oracle Linux Virtualization Manager \(OLVM\) deployments](#)

Workload and database agent changes and enhancements

- [NetBackup Dedupe Direct for Oracle plug-in support for Flex Scale](#)

Changes in Veritas terminology

To modernize our terminology, Veritas has begun to replace certain outdated terms with more current terms.

Note: As Veritas continues to update its terminology, the deprecated terms and the new terms may be used interchangeably.

Deprecated term	New term
Master	Primary
Slave	Secondary or media server
Whitelist or white list	Allowed list
Blacklist or black list	Blocked list
White hat	Ethical
Black hat	Unethical

Data collector registration using the NetBackup web UI

The data collector on the NetBackup primary server collects metadata from NetBackup and sends information such as policies, jobs, image records to Veritas Alta View or Veritas NetBackup IT Analytics.

To enable Veritas Alta View or Veritas IT Analytics to collect data from NetBackup, use the NetBackup web UI to register the data collector with one of these applications.

Either Veritas Alta View or Veritas NetBackup IT Analytics can be registered with a single data collector at a time. If you want to change registration from Veritas Alta View to NetBackup IT Analytics portal or from NetBackup IT Analytics portal to Veritas Alta View, you must first unregister the existing configuration.

For more information on how to register the data collector, see the *NetBackup Web UI Administrator Guide*.

NetBackup 10.3.0.1 support additions and changes

Note: This information is subject to change. See the [NetBackup Compatibility List for all Versions](#) for the most recent product and services support additions and changes.

The following products and services are supported starting with NetBackup 10.3.0.1:

- Client support for Amazon Linux 2 and Amazon Linux 2023
- VMware guest OS support for Amazon Linux 2 , Amazon Linux 2023, Alma Linux 8.x ,Alma Linux 9.x,Rocky Linux 8.x, and Rocky Linux 9.x
- NBSM guest OS support for Amazon Linux 2

Several shutdown commands to be deprecated in a future release

A new, fully documented command for shutting down NetBackup processes and daemons will be provided in an upcoming release. At that point, the following commands will no longer be available:

- `bp.kill_all`
- `bpdwn`
- `bpclusterkill`

Please plan accordingly. The new command will be announced in future release notes and in the *NetBackup Commands Reference Guide*.

Isolated recovery environment is supported on SUSE Linux Enterprise Server NetBackup BYO

In previous NetBackup releases, the isolated recovery environment feature is supported on Red Hat Enterprise Linux build-your-own (BYO) server. With NetBackup 10.3.0.1, an isolated recovery environment is supported on SUSE Linux Enterprise Server BYO also.

In the NetBackup 10.3.0.1 release, Python is not included in the NetBackup SUSE Linux Enterprise Server package. Perform the following steps if you want to use isolated recovery environment on a SUSE Linux Enterprise Server in NetBackup 10.3.0.1:

1. Create a symbol link so that NetBackup uses the Python 3 provided by SUSE Linux Enterprise Server:

```
/usr/bin/ln -s /usr/bin/python3 /usr/opensv/pdde/pdopensource/bin/python3
```

2. Install the `pytz` module:

```
/usr/bin/zypper install python3-pytz
```

Update cloud configuration file on the primary server immediately after install or upgrade to NetBackup 10.3.0.1

If you use cloud storage in your NetBackup environment, you may need to update your cloud configuration file on the NetBackup primary server immediately after you install or upgrade to NetBackup 10.3.0.1. If a cloud provider or related enhancement is not available in the cloud configuration file after you upgrade to NetBackup 10.3.0.1, related operations fail.

Veritas continuously adds new cloud support to the cloud configuration files between releases. Updating your cloud configuration files is necessary only if your cloud storage provider was added to the cloud configuration package after version 2.11.0.

The following cloud support has been added to version 2.11.3 and later but was not included in the NetBackup 10.3.0.1 final build:

- Impossible Cloud (S3) - S3 Object Lock
- Cloud Object Store Protection (COSP) - Quantum ActiveScale Systems (S3)
- Amazon (S3) - Israel (Tel Aviv) region
- Google (S3) - Europe West 10 (Berlin) region
- Google (S3) - Middle East Central 2 (Dammam) region

For the latest cloud configuration package, see the following article:

https://www.veritas.com/content/support/en_US/downloads/update.UPD971796

For additional information on adding cloud storage configuration files, refer to the following tech note:

<http://www.veritas.com/docs/100039095>

NetBackup supports virtual machines within Oracle Linux Virtualization Manager (OLVM) deployments

NetBackup can be used to protect virtual machines within Oracle Linux Virtualization Manager (OLVM) deployments and the OLVM.

OLVM, similar to Red Hat Enterprise Virtualization (RHV), is based on the `oVirt` open-source virtualization. Configuring OLVM in NetBackup is similar to configuring RHV. Therefore, refer to the [NetBackup Web UI Red Hat Virtualization Administrator's Guide](#) to backup and restore virtual machines that run on OLVM.

NetBackup 10.2 and later supports OLVM. For more details, see the [NetBackup Software Compatibility List](#).

NetBackup Dedupe Direct for Oracle plug-in support for Flex Scale

The NetBackup Dedupe Direct for Oracle plug-in is supported on Flex Scale from NetBackup 10.3.0.1 onwards.

Use the `setting MSDP-user` command in the Flex Scale command line to manage the MSDP `spa` users for NetBackup Dedupe Direct for Oracle plug-in. See the *Adding MSDP users from the deduplication shell* and *Changing an MSDP user password* topics of the *NetBackup Deduplication Guide for 10.3* for the command usage.

Note: In NetBackup Flex Scale, some of the commands can only be executed on the primary node.

Operational notes

This chapter includes the following topics:

- [About NetBackup 10.3.0.1 operational notes](#)
- [NetBackup installation and upgrade operational notes](#)
- [NetBackup administration and general operational notes](#)
- [NetBackup administration interface operational notes](#)
- [NetBackup Bare Metal Restore operational notes](#)
- [NetBackup Cloud Object Store Workload operational notes](#)
- [NetBackup Snapshot Manager \(formerly NetBackup CloudPoint\)](#)
- [NetBackup NAS operational notes](#)
- [NetBackup for OpenStack operational notes](#)
- [NetBackup internationalization and localization operational notes](#)

About NetBackup 10.3.0.1 operational notes

NetBackup operational notes describe and explain important aspects of various NetBackup operations that may not be documented elsewhere in the NetBackup documentation set or on the Veritas Support website. The operational notes can be found in the *NetBackup Release Notes* for each version of NetBackup. Typical operational notes include known issues, compatibility notes, and additional information about installation and upgrade.

Operational notes are often added or updated after a version of NetBackup has been released. As a result, the online versions of the *NetBackup Release Notes* or other NetBackup documents may have been updated post-release. You can access

the most up-to-date version of the documentation set for a given release of NetBackup at the following location on the Veritas Support website:

[NetBackup Release Notes, Administration, Installation, Troubleshooting, Getting Started, and Solutions Guides](#)

NetBackup installation and upgrade operational notes

NetBackup can be installed and upgraded in heterogeneous environments using a variety of methods. NetBackup is also compatible with a mixture of servers and clients that are at various release levels in the same environment. This topic contains some of the operational notes and known issues that are associated with the installation, upgrade, and software packaging of NetBackup 10.3.0.1.

If NetBackup 10.3.0.1 upgrade fails on Windows, revert to previous log folder structure

The legacy log folder structure for non-root or non-admin invoked process logs has changed. The new folder structure is created under the process log directory name. For more information, refer to the *File name format for legacy logging* section from the [NetBackup Logging Reference Guide](#).

For Windows, if the upgrade to NetBackup 10.3.0.1 fails and rollback occurs, run the following command to continue working on an earlier NetBackup version:

```
mklogdir.bat -fixFolderPerm
```

For more information, refer to the `mklogdir` command from the [NetBackup Commands Reference Guide](#).

Native installation requirements

In NetBackup 8.2, a change was made to initial installs such that the answer file is now required. This change may have some negative effect on users who want to use the native packages to create VM templates or otherwise install the NetBackup packages without configuring the product. On Linux, one possible way of obtaining the previous behavior is with the `-noscripts` option of the RPM Package Manager. Providing this option when installing the `VRTSnbpc` package avoids the configuration steps. This option does not need to be provided when you install other packages. The answer file must still exist, but the only value that must be provided is the role of the machine, either a client or a media server. For example:


```
echo "MACHINE_ROLE=CLIENT" > /tmp/NBInstallAnswer.conf  
rpm -U --noscripts VRTSnbpck.rpm  
rpm -U VRTSpbx.rpm VRTSnbclt.rpm VRTSpddea.rpm
```

NetBackup servers must use a host name that is compliant with RFC 1123 and RFC 952

Starting with NetBackup 8.0, all NetBackup server names must use a host name that is compliant with RFC 1123 ("Requirements for Internet Hosts - Application and Support") and RFC 952 ("DOD Internet Host Table Specification") standards. These standards include the supported and unsupported characters that can be used in a host name. For example, the underscore character (`_`) is not a supported character for host names.

More information is available about these standards and about this issue:

[RFC 952](#)

[RFC 1123](#)

<http://www.veritas.com/docs/000125019>

These standards should be applied to all computing hosts, including all NetBackup hosts. To accommodate legacy environments and functionality, features of NetBackup that were implemented before 2010 continue to allow some non-compliant characters. But newer features, as well as more recently integrated 3rd-party components, are not tested with nor expected to be compatible with host names that do not adhere to the industry standards.

In some situations, it may be possible to configure name services with a network hostname alias that is standards-compliant, and then use the alias when you configure NetBackup. But using host names that are standards-compliant is the only way to ensure compatibility with all features.

About support for HP-UX Itanium vPars SRP containers

Hewlett-Packard Enterprise (HPE) introduced a new type of container for HP-UX Virtual Partitions (vPars)-enabled servers called Secure Resource Partitions (SRPs). As part of the security changes introduced by SRPs, native HP-UX install tools such as `swinstall` and `swremove` are disabled from being run within the SRP environment. The `swinstall` and `swremove` tools can only be called from the global host running vPars, which then pushes the native packages to the SRP containers.

NetBackup only supports installing into the global view. NetBackup installation fails if you try to install into an HPE Itanium SRP container (private file system, shared file system, or workload).

NetBackup administration and general operational notes

NetBackup provides a complete, flexible data protection solution for a variety of platforms. The platforms include Windows, UNIX, and Linux systems. In addition to a standard set of data protection features, NetBackup can also utilize several other licensed and non-licensed components to better protect a variety of different systems and environments. This topic contains some of the general operational notes and known issues that are associated with the administration of NetBackup 10.3.0.1.

For some workload environments, reduce the size of the job database before upgrade

Following an upgrade from NetBackup 9.0 or earlier to NetBackup 9.1 or later, existing jobs for certain workloads are assigned an asset namespace to enable access control at an asset level. This process may take some time. You should reduce the size of the jobs database before upgrade. This action minimizes the amount of processing required to perform the association and minimizes the effect on web services performance. Very large job databases may see an alert regarding high heap space usage.

The affected workloads include: Cloud, Nutanix AHV, RHV, and VMware

For further details see the following article:

<http://www.veritas.com/docs/100049808>

Policies using Replication Director fail with error code 4224

When you try to modify any existing policy with the **Use Replication Director** and **Perform snapshot backups** options selected in the NetBackup web UI, this error appears:

```
Error code 4224: Host. STS Internal Error
```

You can see the following message in the BPFIS logs:

```
15:16:13.416 [35337] <2> onlfi_vfms_logf: INF - snapshot services:
ostfi:2023-09-26 15:16:13.416029 <Thread id - 1> Failed to wait for
operation result, Error code [2060017] and message [system call failed]
15:16:13.417 [35337] <2> onlfi_vfms_logf: INF - snapshot services:
ostfi:2023-09-26 15:16:13.417125 <Thread id - 1> OST Library call
failed with message (STS API waitForAsyncCall failed with error
code : 2060017)
```

Workaround:

Do any of the following actions:

- In the **Policy validation** dialog displaying the error, click **Ignore errors** and save. Open the NetBackup Administration Console (Java UI), edit the policy, and then save it.
- In the **Policy validation** dialog displaying the error, click **Edit policy**. To save the policy, click **Save**. In the **Policy validation** dialog displaying topology validation options, select the topology validation option as **None** or **Basic**, instead of **Complete**, and save.

Failed to get response from NetBackup malware utility

This issue is applicable for scan hosts with RHEL 8.x and NFS version 4.x.

When scanning large backups of 200 million or more files, the following error is displayed on the NetBackup web UI for a failed job:

Failed to get response from NetBackup malware utility.

While a scan is in progress on the scan host, NFS mount points are not accessible from the scan host. The scan job remains in progress and times out after two days. NFS exports on storage server are accessible.

Workaround:

Ensure that you use NFS version 3 for mounting IA mounts on scan host over NFS by setting the following configuration in the `/etc/nfsmount.conf` file on the scan host:

```
# grep Defaultvers /etc/nfsmount.conf Defaultvers=3
```

NetBackup administration interface operational notes

The NetBackup administrator has a choice of several interfaces to use to administer NetBackup. All of the interfaces have similar capabilities. This topic contains some of the operational notes and known issues that are associated with these interfaces in NetBackup 10.3.0.1.

For more information about the specific NetBackup administration interfaces, refer to the *NetBackup Web UI Administrator's Guide* or the *NetBackup Administrator's Guide, Volume I*.

For information about how to install the interfaces, refer to the *NetBackup Installation Guide*. For information about platform compatibility with the administration consoles,

refer to the various NetBackup compatibility lists available on the Veritas Support website.

See “[About NetBackup compatibility lists and information](#)” on page 38.

Delay in NetBackup web UI when adding or removing columns in Catalog area

In the **Catalog** area of the web UI, you can add or remove columns from the table of images. The more images that are displayed, the longer it takes for the interface to refresh if you add or remove columns. This issue will be fixed in an upcoming release.

Intermittent issues with X forwarding of NetBackup Administration Console

Intermittent issues may occur with X forwarding of the NetBackup Administration Console. This behavior only occurs when you use X forwarding. This issue does not occur at the local console. The issue is most commonly seen on Linux servers, but not exclusively. The issue generally occurs when older versions of X viewers are used, such as Xming and XBrowser.

The use of MobaXterm seems to minimize or eliminate the issue. If you experience issues with X forwarding, consider upgrading your X viewer and retrying the operation or access the server from the local console.

NetBackup Administration Console fails in Simplified Chinese UTF-8 locale on Solaris SPARC 64-bit systems with Solaris 10 Update 2 or later

The NetBackup Administration Console may encounter a core dump issue when the Simplified Chinese UTF-8 locale is used on a Solaris SPARC 64-bit system with Solaris 10 Update 2 and later installed. For more information, refer to Bug ID 6901233 at the following URL on the Oracle Technology Network website:

http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=6901233

If you encounter this issue, apply the appropriate Solaris patches or upgrades that Oracle provides for this issue.

NetBackup Bare Metal Restore operational notes

NetBackup Bare Metal Restore (BMR) automates and streamlines the server recovery process, making it unnecessary to reinstall operating systems or configure

hardware manually. This topic contains some of the operational notes and known issues that are associated with BMR in NetBackup 10.3.0.1.

After PIT restore, "The host ID does not exist" error appears

After a point in time (PIT) restore operation (which may include either a **Full File System** restore or a **BMR restore**), the error message **The host ID does not exist** appears.

In this scenario, a full backup is taken when a `SERVICE_USER` as root/administrator account is configured. This account takes the backup of the NetBackup installed binaries with root/administrator ownership. Before a restore, `SERVICE_USER` is configured with an account other than root/administrator, and then an incremental backup is taken where the service user is backed up as part of `bp.conf`. In a PIT restore operation with the incremental backup, the `SERVICE_USER` entry gets restored. However, the binaries are restored in the root account ownership.

Workaround:

After changing the service user, you must take a full backup, whether it is a **MS-Windows\Standard Policy** for File System or **BMR** policy configuration.

AIX BMR Shared Resource Tree (SRT) creation fails in NetBackup 10.3.0.1

The following error message appears on the command-line console while creating the Shared Resource Tree (SRT):

```
lslpp: Fileset libc++.rte not installed.
```

```
ERROR: Could not resolve major version level from [].
```

```
ERROR: Detected an attempt to install incorrect platform and/or  
operating system and version client binaries on  
falcnal2c3.abcus.abc.com.
```

```
Required AIX OS libc++.rte runtime is not present.
```

```
File /tmp/install_trace.xxxxxxxx contains a trace of this  
install. That file can be deleted after you are sure the  
install was successful.
```

```
Do you want to retry install of Veritas NetBackup Client? (y/n) [y] :
```

During AIX BMR SRT creation, when you install NetBackup 10.3.0.1 client, you must have `libc++` runtime version 16.1.0.7 or later inside the SRT. If a `libc++` runtime version is not present in the AIX BMR SRT when you create it, then the NetBackup 10.3.0.1 client installation fails, which leads to the SRT creation failure.

Workaround:

See this technical article for workaround details:

https://www.veritas.com/support/en_US/article.100060647

NetBackup services may not start automatically after BMR restore on a Linux client

NetBackup services may not start automatically after a Bare Metal Restore (BMR) restore operation is performed on the Linux client.

The NetBackup services may run for a while after a BMR restore operation, and the BMR post-restore scripts may complete successfully. Later, however, NetBackup services may stop.

This issue happens only if a service user is different than the root user that is defined on the NetBackup Linux client.

Workaround:

Start the NetBackup services manually on the Linux client. To start the services, run the following command:

```
/usr/opensv/netbackup/bin/bp.start_all
```

NetBackup Cloud Object Store Workload operational notes

This topic contains some of the operational notes and known issues that are associated with the NetBackup Cloud Object Store Workload in version 10.3.0.1.

Auto Image Replication (AIR) from NetBackup version 10.3 to 10.1 does not work

Auto Image Replication (AIR) from NetBackup version 10.3 to 10.1 does not work.

Workaround:

None. Upgrade the target computer to at least NetBackup version 10.2.

For Azure, backups fail when an older policy is updated with a new backup host

For Azure, if you update a policy that was created on a NetBackup version prior to 10.3, with a new backup host, backups fail.

The modified form of the queries in version 10.3 causes this issue.

Workaround:

Update all existing queries in the buckets to the new format.

Replicated backups cannot be restored to older NetBackup versions

If you replicate a backup image created on NetBackup 10.3 to an older NetBackup version, you cannot restore the buckets or containers having default retention enabled using the older version of NetBackup.

Workaround:

1. Restore with NetBackup version 10.3 or later.
2. Replicate the image to NetBackup version 10.3 or later.

NetBackup Snapshot Manager (formerly NetBackup CloudPoint)

Indexing not supported on instances created from AWS Marketplaces AMIs

The indexing process for the instances created from AWS Marketplaces AMIs fails with the following error:

```
Failed to attach new volume: Cannot attach volume <vol-xxx>  
with Marketplace codes as the instance <i-xxx>  
is not in the 'stopped' state.
```

Verifying the storage array certificate

NetBackup 10.3.0.1 and later provide an option to verify the storage array certificate for any communication that happens between NetBackup Snapshot Manager (NBSM) and the storage array. For the verification to succeed, the root certificate of the storage array must be maintained in the trust store of NetBackup Snapshot Manager.

You must manually download the storage array certificate and add it to the NBSM trust store. After the certificate is added in the trust store, during the plug-in configuration or plug-in update operations, select the **Verify Certificate** option to enable the certificate verification.

For more information, see the following technical article:

<http://www.veritas.com/docs/100062212>

NetBackup NAS operational notes

NetBackup Snapshot Manager and NDMP V4 snapshot extension can make snapshots of client data on a NAS host. A NAS snapshot is a point-in-time disk image. You can retain the Snapshots on the disk for any duration. Using the Instant Recovery feature in NetBackup, you can efficiently restore the data from the disk. Broadly, in NetBackup, snapshot-based data protection for NAS can be performed using NAS-Data-Protection policy and NDMP policy. This topic contains some of the operational notes and known issues that are associated with NetBackup NAS in NetBackup 10.3.0.1.

Parent directories in the path of a file may not be present in an NDMP incremental image

An issue can occur if a NetBackup Network Data Management Protocol (NDMP) backup policy is configured with the directive `set type=tar` in the backup selection. Parent directories in the path of a file that an incremental NDMP backup saves may not be present in the backup image. For more information on this issue, refer to the following tech note on the Veritas Support website:

<http://www.veritas.com/docs/000095049>

RD storage units are not listed as Replication targets

While configuring a storage lifecycle policy (SLP) from the NetBackup web UI, the Replication Director (RD) storage units are not listed in the **Replication target** drop-down, under **Destination storage attributes**. This situation occurs when you have configured both ISM and RD replication targets on the same primary server.

Workaround:

Configure the SLP using the NetBackup Administration Console (Java UI) or the command line interface (CLI).

NetBackup for OpenStack operational notes

NetBackup for OpenStack is an optional NetBackup application. This topic contains some of the operational notes and known issues that are associated with NetBackup for OpenStack in NetBackup 10.3.0.1.

CentOS repository mirror URL is updated

The CentOS repository mirror URL is updated to `vault.centos.org` from `mirror.centos.org`. You must update it in all Yum repository files located at `/etc/yum.repos.d/CentOS-*`.

NetBackup for OpenStack Datamover API (NBOSDMAPI) service times out in the haproxy connection

The NBOSDMAPI service in the haproxy connection may time out due to slow response time in highly-used environments.

The default haproxy configuration works fine with most of the environments. When the time-out issue with the NBOSDMAPI is observed, customize the haproxy configuration. For more information, see the following tech note:

https://www.veritas.com/support/en_US/article.100052551

Instance volumes in the incremental backups cannot be mounted

Newly added disks of an instance for incremental backup get backed up successfully but these disks cannot be mounted.

NetBackup primary server does not re-issue the token if NetBackup VM is a 3-node cluster

Re-issue of the tokens for NetBackup certificate in the NetBackup configurator does not work if NetBackup VM is a 3-node cluster.

Workaround:

To resolve this issue, enable allow auto re-issue token on the primary server. You must enter "" in the **Token** field on the NetBackup configurator. This configuration lets you proceed if the NetBackup OpenStack VM already has the certificates that primary server provides.

Success message appears along with the error message when you delete the policy that has snapshots

When you delete the policy that has snapshots, the following success and error messages appear. However, the policy is not deleted and only error message should appear.

- Error: Invalid state: This policy contains snapshots. Please delete all snapshots and try again.

- Success: Deleted: <policy name>

Unable to connect to NetBackup primary server using NBICA

While configuring NetBackup VM, if you enter NetBackup Primary Server name, the following error message appears:

```
Failed to establish connection with the NetBackup master server.  
Error: HTTPSConnectionPool(host='NBU.master.server', port=443): Max  
retries exceeded with url: /netbackup/security/ping (Caused by  
NewConnectionError('<urllib3.connection.HTTPSConnection object at  
0x7f9e466b0ef0>: Failed to establish a new connection: [Errno -2]  
Name or service not known',))
```

Workaround:

Add IP host name mapping in `/etc/hosts` to resolve this issue.

For more information, see the following Support article:

https://www.veritas.com/support/en_US/article.100045941

Excluded Ceph Volume after restore is not mountable or formattable

VM Volumes stored on Ceph are successfully excluded from backup if desired.

Restore creates empty Ceph Volume, which is not attachable or formattable.

Restored VMs have blank metadata config_drive attached

For every restore, the metadata `config_drive` is set as blank value.

Workaround:

Delete metadata `config_drive` or set the desired value.

NBOSVM reconfig fails when you add new NetBackup VM to the cluster

NetBackup re-configuration fails when you add the nodes to the existing NetBackup VM.

Reason is that the previous MySQL password was not working and MySQL root access has been reset.

Workaround:

Remove `/root/.my.cnf` file on already configured NetBackup VM and reconfigure it.

Database does not sync after NetBackup cluster gets new nodes

After NetBackup re-configuration post addition of two more nodes to existing NetBackup VM cluster ("import policies" was not selected), the databases do not sync against already existing NetBackup VM.

It is expected that while adding the two new nodes, the databases on node1 should get synced up with the two new nodes, and the existing policies must be available post the reconfig on the new 3-node NetBackup VM cluster.

Workaround:

Run the policy import from CLI.

Data on boot disk gets backed up despite exclusion

VM was set with metadata `exclude_boot_disk_from_backup` set to true. Restored instance shows that data was backed up and restored.

After reinitialization and import, OpenStack certificates are missing

Reinitialization does not keep the already uploaded OpenStack certificates used to communicate with OpenStack.

Workaround:

Upload the certificates again.

CLI import changes scheduler trust value to disabled

When the import functionality is used by CLI, the scheduler trust changes from enabled to disabled.

Workaround:

Configure NetBackup with import option from UI after reinitialization.

Unable to get node details after you reinitialize the NetBackup Appliance

After you reinitialize the NetBackup Appliance, the UI and CLI do not display the node information.

Workaround:

Restart `nbosjm-policies` and `nbosjm-cron` services on NetBackup nodes.

```
systemctl restart nbosjm-policies
```

```
systemctl restart nbosjm-cron
```

No operation is permitted in insecure way for SSL-enabled Keystone URL

For SSL enabled OpenStack, Backup and Restore jobs fail with missing TLS CA certificate bundle error.

Workaround:

Configure the NetBackup appliance with OpenStack CA provided.

Or provide OpenStack CA to `/etc/nbosjm/ca-chain.pem`

NetBackup internationalization and localization operational notes

This topic contains some of the operational notes and known issues that are associated with internationalization, localization, and non-English locales in NetBackup 10.3.0.1.

Support for localized environments in database and application agents

Non-ASCII characters are supported in the following fields for NetBackup database and application agents.

- Oracle:
Datafile path, Tablespace name, TNS path
- DB2:
Datafile path, Tablespace name
- SAP:
English SAP runs on localized OS. (No specific SAP fields are localized.)
- Exchange:
Mailboxes, Mails, Attachment names and contents, Public folders, Contacts, Calendar, Folders and Database paths
- SharePoint:
Site Collection Names, Libraries and lists within the site collection
- Lotus Notes:
Emails data /.nsf files
- Enterprise Vault (EV) agent:

Vault store, Partitions, Data

- VMWare:
Username, Password, VM display name, DataCenter, Folder, Datastore,
Resource pool, VApp, Network name, VM disk path

Certain NetBackup user-defined strings must not contain non-US ASCII characters

The following NetBackup user-defined strings must not contain non-US ASCII characters:

- Host name (primary server, media server, Enterprise Media Manager (EMM) server, volume database host, media host, client, instance group)
- Policy name
- Policy KEYWORD (Windows only)
- Backup, Archive, and Restore KEYWORD (Windows only)
- Storage unit name
- Storage unit disk pathname (Windows only)
- Robot name
- Device name
- Schedule name
- Media ID
- Volume group name
- Volume pool name
- Media description
- Vault policy names
- Vault report names
- BMR Shared Resource Tree (SRT) name
- Token name
- Storage lifecycle policy (SLP) names

About SORT for NetBackup Users

This appendix includes the following topics:

- [About Veritas Services and Operations Readiness Tools](#)

About Veritas Services and Operations Readiness Tools

Veritas Services and Operations Readiness Tools (SORT) is a robust set of standalone and web-based tools that support Veritas enterprise products. For NetBackup, SORT provides the ability to collect, analyze, and report on host configurations across UNIX/Linux or Windows environments. This data is invaluable when you want to assess if your systems are ready for an initial NetBackup installation or for an upgrade.

Access SORT from the following webpage:

<https://sort.veritas.com/netbackup>

Once you get to the SORT page, more information is available as follows:

- **Installation and Upgrade Checklist**
Use this tool to create a checklist to see if your system is ready for a NetBackup installation or an upgrade. This report contains all the software and the hardware compatibility information specific to the information provided. The report also includes product installation or upgrade instructions, as well as links to other references.
- **Hot fix and EEB Release Auditor**
Use this tool to find out whether a release that you plan to install contains the hot fixes that you need.

- **Custom Reports**

Use this tool to get recommendations for your system and Veritas enterprise products.

- **NetBackup Future Platform and Feature Plans**

Use this tool to get information about what items Veritas intends to replace with newer and improved functionality. The tool also provides insight about what items Veritas intends to discontinue without replacement. Some of these items include certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and the OS platforms.

Help for the SORT tools is available. Click **Help** in the upper right corner of the SORT home page. You have the option to:

- Page through the contents of the help similar to a book
- Look for topics in the index
- Search the help with the search option

NetBackup installation requirements

This appendix includes the following topics:

- [About NetBackup installation requirements](#)
- [Required operating system patches and updates for NetBackup](#)
- [NetBackup 10.3.0.1 binary sizes](#)

About NetBackup installation requirements

This release of NetBackup may contain changes to the minimum system requirements and procedures that are required for installation. These changes affect the minimum system requirements for both Windows and UNIX platforms. Much of the installation instructional information in the *NetBackup Release Notes* is provided for convenience. Detailed installation instructions are found in the *NetBackup Installation Guide* and the *NetBackup Upgrade Guide*.

See “[NetBackup installation and upgrade operational notes](#)” on page 16.

- Before you upgrade the NetBackup server software, you must back up your NetBackup catalogs and verify that the catalog backup was successful.
- Before upgrading to NetBackup 10.3.0.1, you must ensure that you have the free disk space that is twice the size of the NetBackup relational database. That means for default installations of the primary server, you are required to have that amount of free space on the file system containing the `/usr/opensv/db/data` (UNIX) or `<install_path>\Veritas\NetBackupDB\data` (Windows) directories. If you have changed the location of some of the files in either of these directories, free space is required in those locations equal to or greater than the size of the

files in those locations. Refer to the *NetBackup Administrator's Guide, Volume I* for more information about storing NBDB database files in alternate locations.

Note: This free disk space requirement assumes that you have already performed the best practice of completing a successful catalog backup before you begin the upgrade.

- Primary and media servers must have a minimum soft limit of 8000 file descriptors per process for NetBackup to run correctly. For more information about the effects of an insufficient number of file descriptors, refer to the following articles on the Veritas Support website:
<http://www.veritas.com/docs/000013512>
- NetBackup primary and media servers exchange server version information at startup, and every 24 hours. This exchange occurs automatically. During startup after an upgrade, the upgraded media server uses the `vmd` service to push its version information to all of the servers that are listed in its server list.
- Veritas recommends that you have the primary server services up and available during a media server upgrade.
- All compressed files are compressed using `gzip`. The installation of these files requires `gunzip` and `gzip`, so make sure that they are installed on the computer before you attempt to install NetBackup. For all UNIX platforms except HP-UX, the binaries are expected to be in `/bin` or `/usr/bin` and that directory is a part of the root user's `PATH` variable. On HP-UX systems, the `gzip` and `gunzip` commands are expected to be in `/usr/contrib/bin`. Installation scripts add that directory to the `PATH` variable. These commands must be present to have successful UNIX installations.

Required operating system patches and updates for NetBackup

NetBackup server and client installations are only supported on a defined set of operating systems (OSs) that are listed in the [NetBackup Compatibility Lists for All Versions](#). Most OS vendors provide patches, updates, and service packs (SPs) for their products. The best practice of NetBackup Quality Engineering is to test with the latest SP or update level of the OS when a platform is tested. Therefore, NetBackup is supported on all vendor GA updates (n.1, n.2, and so on) or SPs (SP1, SP2, and so on). However, if a known compatibility issue exists on a specific SP or updated OS level, this information is identified in the compatibility lists. If no

such compatibility issues are noted, Veritas recommends that you install the latest OS updates on your servers and clients before you install or upgrade NetBackup.

The most up-to-date required OS patch information for NetBackup 10.3.0.1 and other NetBackup releases can be found on the [Veritas Services and Operational Readiness Tools \(SORT\) website](#) and in the [NetBackup Compatibility Lists for All Versions](#). The compatibility lists include information about the minimum OS level that is required to support a minimum NetBackup version in the latest major release line. In some cases, new releases of NetBackup may require specific vendor OS updates or patches.

See [“About NetBackup compatibility lists and information”](#) on page 38.

See [“About Veritas Services and Operations Readiness Tools”](#) on page 30.

NetBackup 10.3.0.1 binary sizes

[Table B-1](#) contains the approximate binary sizes of the NetBackup 10.3.0.1 primary server, media server, and client software for the various supported operating systems. These binary sizes indicate the amount of disk space occupied by the product after an initial installation. Note that for the sizes listed in the table, 1 MB equals 1024 KB.

Note: As of NetBackup 8.3, the Java GUI and JRE packages are optional with most clients and media servers. The package sizes were calculated with the Java GUI and JRE included.

Note: The table lists only the supported operating systems. For up-to-date information about the specific operating system versions that NetBackup currently supports, check the Installation and Upgrade Checklist on the Services and Operations Readiness Tools (SORT) website, or the [NetBackup Compatibility List for all Versions](#).

Table B-1 NetBackup binary sizes for compatible platforms

OS	CPU Architecture	64-bit client	64-bit server	Notes
AIX	POWER	1807 MB	No longer supported	
Canonical Ubuntu	x86-64	2278 MB		
CentOS	x86-64	2278 MB	9893 MB	

Table B-1 NetBackup binary sizes for compatible platforms (*continued*)

OS	CPU Architecture	64-bit client	64-bit server	Notes
Debian GNU/Linux	x86-64	2278 MB		
Kylin Linux Advanced Server 10.0		2278 MB		
NeoKylin Linux Advanced Server		2278 MB		
Oracle Linux	x86-64	2278 MB	9893 MB	
Red Hat Enterprise Linux Server	POWER	429 MB		
Red Hat Enterprise Linux Server	x86-64	2233 MB	9604 MB	
Red Hat Enterprise Linux Server	z/Architecture	1146 MB	No longer supported	Media server or client compatibility only.
Rocky Linux client		2278 MB		
Solaris	SPARC	1593 MB	No longer supported	
Solaris	x86-64	1575 MB	No longer supported	
SUSE Linux Enterprise Server	POWER	435 MB		
SUSE Linux Enterprise Server	x86-64	1565 MB	7075 MB	
SUSE Linux Enterprise Server	z/Architecture	1146 MB	No longer supported	Media server or client compatibility only.
Windows	x86-64	692 MB	5067 MB	Covers all compatible Windows x64 platforms.

The following space requirements also apply to some NetBackup installations on Windows:

- If you install NetBackup in a custom location on a Windows system, some portions of the software are installed on the system drive regardless of the primary application folder location. The space that is required on the system drive generally accounts for 40 to 50 percent of the total binary size that is listed in the table.
- If you install NetBackup server on a Windows cluster, some portions of the software are installed on the cluster shared disk. Note, the space that is required on the cluster shared disk is in addition to the binary size that is listed in the

table. The additional required space is equivalent to 15 to 20 percent of the total binary size.

NetBackup compatibility requirements

This appendix includes the following topics:

- [About compatibility between NetBackup versions](#)
- [About NetBackup compatibility lists and information](#)
- [About NetBackup end-of-life notifications](#)

About compatibility between NetBackup versions

You can run mixed versions of NetBackup between primary servers, media servers, and clients. This back-level support lets you upgrade NetBackup one server at a time, which minimizes the effect on overall system performance.

Veritas supports only certain combinations of servers and clients. In mixed version environments, certain computers must be the highest version. Specifically, the version order is: NetBackup Snapshot Manager computer, primary server, media server, and then clients. For example, the scenario that is shown is supported: 10.2 NetBackup Snapshot Manager > 10.0 primary server > 9.0 media server > 8.3.0.1 client.

All NetBackup versions are four digits long. The NetBackup 10.0 release is the 10.0.0.0 release. Likewise, the NetBackup 9.1 release is the NetBackup 9.1.0.0 release. For the purposes of supportability, the fourth digit is ignored. A 9.1 primary server supports a 9.1.0.1 media server. An example of what is not supported is a 9.1 primary server with a 10.0 media server.

The NetBackup catalog resides on the primary server. Therefore, the primary server is considered to be the client for a catalog backup. If your NetBackup configuration

includes a media server, it must use the same NetBackup version as the primary server to perform a catalog backup.

For complete information about compatibility between NetBackup versions, refer to the [Veritas SORT website](#).

Veritas recommends that you review the [End of Support Life](#) information available online.

About NetBackup compatibility lists and information

The *NetBackup Release Notes* document contains a great deal of the compatibility changes that are made between NetBackup versions. However, the most up-to-date compatibility information on platforms, peripherals, drives, and libraries can be found on the Veritas Operations Readiness Tools (SORT) for NetBackup website.

See [“About Veritas Services and Operations Readiness Tools”](#) on page 30.

For NetBackup, SORT provides an Installation and Upgrade Checklist report as well as the ability to collect, analyze, and report on host configurations across your environments. In addition, you can determine which release contains the hot fixes or EEBs that you may have installed in your environment. You can use this data to assess whether your systems are ready to install or upgrade to a given release.

NetBackup compatibility lists

In addition to SORT, Veritas has made available a variety of compatibility lists to help customers quickly reference up-to-date compatibility information for NetBackup:

[NetBackup Compatibility Lists for All Versions](#)

Note: For information about which versions of NetBackup are compatible with each other, select a **Software Compatibility List (SCL)**, and then select **Compatibility Between NetBackup Versions** from within the SCL.

About NetBackup end-of-life notifications

Veritas is committed to providing the best possible data protection experience for the widest variety of systems: platforms, operating systems, CPU architecture, databases, applications, and hardware. Veritas continuously reviews NetBackup system support. This review ensures that the proper balance is made between maintaining support for existing versions of products, while also introducing new support for the following:

- General availability releases
- Latest versions of new software and hardware
- New NetBackup features and functionality

While Veritas continually adds support for new features and systems, it may be necessary to improve, replace, or remove certain support in NetBackup. These support actions may affect older and lesser-used features and functionality. The affected features and functionality may include support for software, OS, databases, applications, hardware, and 3rd-party product integration. Other affected items may include the products that are no longer supported or nearing their end-of-support life with their manufacturer.

Veritas provides advance notification to better help its customers to plan for upcoming changes to the support status of the various features in NetBackup. Veritas intends to list older product functionality, features, systems, and the 3rd-party software products that are no longer supported in the next release of NetBackup. Veritas makes these support listings available as soon as possible with a minimum of 6 months where feasible before major releases.

Using SORT

Advance notification of future platform and feature support including end-of-life (EOL) information is available through a widget on the Veritas Services and Operations Readiness Tools (SORT) for NetBackup home page. The NetBackup Future Platform and Feature Plans widget on the SORT for NetBackup home page can be found directly at the following location:

<https://sort.veritas.com/nbufutureplans>

NetBackup end-of-support-life (EOSL) information is also available at the following location:

https://sort.veritas.com/eosl/show_matrix

See “[About Veritas Services and Operations Readiness Tools](#)” on page 30.

About changes in platform compatibility

The NetBackup 10.3.0.1 release may contain changes in support for various systems. In addition to using SORT, you should make sure to review the *NetBackup Release Notes* document and the NetBackup compatibility lists before installing or upgrading NetBackup software.

See “[About new enhancements and changes in NetBackup](#)” on page 9.

<http://www.netbackup.com/compatibility>

Other NetBackup documentation and related documents

This appendix includes the following topics:

- [About related NetBackup documents](#)

About related NetBackup documents

Veritas releases various guides that relate to NetBackup software. Unless otherwise specified, the NetBackup documents can be downloaded in PDF format or viewed in HTML format from the [NetBackup Documentation Landing Page](#).

Not all documents are published with each new release of NetBackup. In the guides, you may see references to other documents that were not published for NetBackup 10.3.0.1. In these cases, refer to the latest available version of the guide.

Note: Veritas assumes no responsibility for the correct installation or use of PDF reader software.

All references to UNIX also apply to Linux platforms unless otherwise specified.
