

Custom Reports Using Data Collectors

Get ready for a newer version of NetBackup (10.4)

Installation and Upgrade Checklist Report for NetBackup Enterprise Server 8.1.2, SUSE Linux Enterprise Server 12, x86-64

Important Notes

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No new versions for NetBackup OpsCenter after 10.0.0.1

NetBackup 10.0 (including maintenance release 10.0.0.1) is the last NetBackup version to include NetBackup OpsCenter and OpsCenter Analytics. Please refer to [NetBackup OpsCenter last release and transition to NetBackup IT Analytics FAQ](#) for more information.

Notes about Smart Meter in NetBackup 8.1.2

Smart Meter is a cloud-based application enabled by NetBackup 8.1.2 that provides real-time and accurate capacity usage categorized by workload. This new capability allows customers to proactively manage capacity and stay in compliance, and gives Veritas and its partners visibility into customer usage, which enables true-up conversations on an ongoing basis. NetBackup 8.1.2+ requires a Smart Meter registration key on each master server. You must obtain these keys and have them available during the installation or upgrade of your master server. To download these keys and learn more about Smart Meter, visit [Veritas Smart Meter](#).

The End of Life (EOL) for NetBackup Master and Media Servers running on HPUX and AIX after NetBackup 8.1.1

Disclaimer: The End of Life (EOL) for NetBackup Master and Media Servers running on HPUX and AIX. This EOL does not apply to client support for either platform. These operating systems will no longer be supported commencing with the planned NetBackup release in mid CY2018. Customers will need to migrate to a supported version of either a Linux or Solaris prior to attempting to upgrade to the planned End of Life release. To enable this NetBackup Engineering plans to release either a process or tool to assist customers in migrating from these platforms to a supported platform. Customers can also request a cost quote from Veritas Consulting services to perform the migration or if the customer has Business Critical Services (BCS) they can contract the BCS team for migration assistance. Both platforms will remain supported on older versions of NetBackup and will follow the published Product End of Life Policy guidelines (https://www.veritas.com/support/en_US/article.000116439).

The End of Life (EOL) for NetBackup running on RedHat, Oracle and CentOS 6.7 and older after NetBackup 8.1.1

Disclaimer: The End of Life (EOL) for NetBackup running on RedHat, Oracle and CentOS 6.7 and older after NetBackup 8.1.1. These operating systems will no longer be supported commencing with the planned NetBackup release in mid CY2018. No changes in support to 6.8 and newer versions.

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NEW! = New content since the last release of SORT

Install Information

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Get ready for a newer version of NetBackup (10.4)

Procedure Overview:

Install the NetBackup Enterprise Server 8.1.2 release.

To obtain the 8.1.2 release, please go to [Veritas Download Center](#)

In order to install NetBackup Enterprise Server 8.1.2, follow the installation instructions found in the [NetBackup 8.1.2 Installation Guide](#)

Be sure to review the [Updates, Patches and Late Breaking News for NetBackup 8.1, NetBackup 8.1.1 and NetBackup 8.1.2](#).

For NetBackup clients, Veritas has developed [deployment templates for Chef & SCCM](#), so that customers can deploy them at scale. The templates will help you to perform installation, upgrade and uninstall NetBackup clients.

Compatibility between NetBackup versions for Primary(Master) Server,Media Server and Client

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For compatibility between major versions, the latest available release of NetBackup is compatible with media servers and clients that run a release of NetBackup that is up to one major version behind. However, this compatibility ceases to be supported in any configuration once the previous major version has reached its End of Support Life.

For information on Veritas End of Life Policy, refer to https://www.veritas.com/support/en_US/article.000116439

NetBackup does not support any scenario where a media server or client runs a software release update version that is higher than that of their Master server.

For more information, refer to the NetBackup Release Notes and the NetBackup Upgrade Guide: https://www.veritas.com/support/en_US/article.000116412

Veritas Services and Operations Readiness Tools (SORT)

NetBackup Master Server	NetBackup Media Server	NetBackup Client
8.0	7.0	7.0
8.0	7.0.1	7.0, 7.0.1
8.0	7.1, 7.1.0.x	7.0, 7.0.1, 7.1, 7.1.0.x
8.0	7.5, 7.5.0.x	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x
8.0	7.6, 7.6.0.x	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x
8.0	7.6.1, 7.6.1.x	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x
8.0	7.7	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7
8.0	7.7.1	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1
8.0	7.7.2	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2
8.0	7.7.3	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3
8.0	8.0	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0
8.1	7.7	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7
8.1	7.7.1	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1
8.1	7.7.2	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2
8.1	7.7.3	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3
8.1	8.0	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0
8.1	8.1	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0, 8.1
8.1.1	7.7	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7
8.1.1	7.7.1	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1

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8.1.1	7.7.2	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2
8.1.1	7.7.3	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3
8.1.1	8.0	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0
8.1.1	8.1	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0, 8.1
8.1.1	8.1.1	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0, 8.1, 8.1.1
8.1.2	7.7	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7
8.1.2	7.7.1	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1
8.1.2	7.7.2	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2
8.1.2	7.7.3	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3
8.1.2	8.0	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0
8.1.2	8.1	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0, 8.1
8.1.2	8.1.1	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0, 8.1, 8.1.1
8.1.2	8.1.2	7.6, 7.6.0.x,7.6.1,7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0, 8.1, 8.1.1, 8.1.2
8.2	8.0	7.7.3, 8.0
8.2	8.1	7.7.3, 8.0, 8.1
8.2	8.1.1	7.7.3, 8.0, 8.1, 8.1.1
8.2	8.1.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2
8.2	8.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2
8.3	8.0	7.7.3, 8.0
8.3	8.1	7.7.3, 8.0, 8.1
8.3	8.1.1	7.7.3, 8.0, 8.1, 8.1.1
8.3	8.1.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2

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8.3	8.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2
8.3	8.3	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3
8.3	8.3.0.1	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1
8.3	8.3.0.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1, 8.3.0.2
8.3.0.1	8.1	7.7.3, 8.0, 8.1
8.3.0.1	8.1.1	7.7.3, 8.0, 8.1, 8.1.1
8.3.0.1	8.1.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2
8.3.0.1	8.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2
8.3.0.1	8.3	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3
8.3.0.1	8.3.0.1	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1
8.3.0.1	8.3.0.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1, 8.3.0.2
8.3.0.2	8.1	7.7.3, 8.0, 8.1
8.3.0.2	8.1.1	7.7.3, 8.0, 8.1, 8.1.1
8.3.0.2	8.1.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2
8.3.0.2	8.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2
8.3.0.2	8.3	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3
8.3.0.2	8.3.0.1	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1
8.3.0.2	8.3.0.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1, 8.3.0.2

Other general rules for compatibility:

- OpsCenter/OpsCenter Analytics must always be running the same or higher Dot-Zero or Single-Dot or Double-Dot release as the master servers in the environment.
- All components (master, media, client, console, and agent) on an individual system must be at the same version.
- Backup images created under an older version of NetBackup will always be recoverable with a newer version of NetBackup
- A new feature may not be functional until the master, media and client are updated.

- Administration Consoles cannot be at an earlier version than the NetBackup server version they connect to via the "change server" functionality in the console

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

[Appliance Compatibility List](#)

Late Breaking News - Available Hot Fixes for Primary(Master) Server,Media Server and Client

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Available hot fixes - for details and download information, consult the Update link in the table.

For more information about installation instructions, please review [NetBackup 8.1.2 on Support site](#).

Hot Fix	Description	Install Location
UPD544453	NetBackup Self Service 8.1.2 Maintenance Release - Service Pack 2 (article 100044957)	Primary(Master) Server, Media Server, Client
UPD540194	NetBackup 8.1.2 French Language Pack (article 100044331)	Primary(Master) Server, Media Server, Client
UPD668913	NetBackup 8.1.2 Japanese Language Pack (article 100044365)	Primary(Master) Server, Media Server, Client
UPD893444	NetBackup 8.1.2 / 3.1.2 Hotfix - CloudCatalyst EEB Package (Etrack 3958437)	Primary(Master) Server, Media Server, Client
UPD575421	NetBackup 8.1.2 Hotfix - nbpem bundle (Etrack 3984324)	Primary(Master) Server, Media Server, Client
UPD238422	Bare Metal Restore Third-Party Products CD (3PPCD)	Primary(Master) Server, Media Server, Client

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UPD344759	NetBackup Java Administration Console Language Pack (article 100033052)	Java Administration Console
UPD399544	Veritas NetBackup Server / Enterprise Server - Device Mappings Package for UNIX / Linux (article 100015983)	Primary(Master) Server, Media Server
UPD971796	NetBackup Server / Enterprise Server 8.1.2 and later - Cloud Configuration Package (article 100033434)	Primary(Master) Server, Media Server
UPD813520	Cloud Catalyst sync_to_cloud tool	Primary(Master) Server, Media Server, Client
UPD593266	NetBackup 8.1.2 / 3.1.2 - Filesystem backups fail with status code 233 (Etrack 4004942)	Primary(Master) Server, Media Server, Client
UPD289903	VTS22-004 - Hotfix for Security Advisory impacting NetBackup 8.1.2 and Appliance 3.1.2 Master and Media Server (Etrack 4072309)	Primary(Master) Server, Media Server, Client
UPD162444	NetBackup Primary Server Migration Tool 2.3.1	Primary(Master) Server, Media Server, Client
UPD714038	NetBackup 8.1.2 - 10.1.1 - nbdb_unload performance impact when upgrading to NetBackup 10.2 or above	Primary(Master) Server, Media Server, Client
UPD206811	VTS22-010 - Hotfix for Security Advisory impacting NetBackup 8.1.2 Clients (Etrack 4079463)	Primary(Master) Server, Media Server, Client
UPD257682	NetBackup 8.1.2 / 3.1.2 Hotfix - MSDP post-upgrade performance issues (Etrack 3956103)	Primary(Master) Server, Media Server, Client
UPD923735	NetBackup 8.1.2 / 3.1.2 Hotfix - Add NetBackup Client support for Oracle 18c and 19c backups (Etrack 3987748)	Primary(Master) Server, Media Server, Client

Veritas Services and Operations Readiness Tools (SORT)

UPD575957	NetBackup 8.1.2 . 3.1.2 Hotfix - Tomcat and nbwebsvc certs not auto renewed on Japanese OS (Etrack 3967638)	Primary(Master) Server, Media Server, Client
UPD469902	NetBackup 8.1.2 / 3.1.2 HotFix - Replicated VMWare images have incorrect target expiration (Etrack 3981646)	Primary(Master) Server, Media Server, Client
UPD634314	NetBackup 8.1.2 / 3.1.2 Hotfix - SQL/ Oracle IP launch every minute after DST change (Etrack 3963053)	Primary(Master) Server, Media Server, Client
UPD476514	NetBackup 8.1.2 / 3.1.2 HotFix - Virtual Machine will not boot after restore (Etrack 3976070)	Primary(Master) Server, Media Server, Client
UPD722190	NetBackup 8.1.2 Hotfix - ndmpagent backups fail with unknown status 13 (Etrack 3961827)	Primary(Master) Server, Media Server, Client
UPD536962	NetBackup 8.1.2 / 3.1.2 Hotfix - Performance degrades if Catalog is stored on VxFS filesystem (Etrack 3969341)	Primary(Master) Server, Media Server, Client
UPD124436	NetBackup 8.1.2 Hotfix - vSphere plug-in install fails with "multiple points" error on vCenter 6.7 U1 (Etrack 3968707)	Primary(Master) Server, Media Server, Client
UPD770735	NetBackup 8.1.2 Hotfix - VMware backups hang (Etrack 3973811)	Primary(Master) Server, Media Server, Client
UPD396204	NetBackup 8.1.2 / 3.1.2 Hotfix - Opening Java Console causes nbsl core dump after upgrade (Etrack 3967272)	Primary(Master) Server, Media Server, Client
UPD865339	NetBackup 8.1.2 Hotfix - Backups hang / catalina log warning APPARENT DEADLOCK (Etrack 3975178)	Primary(Master) Server, Media Server, Client
UPD321086	NetBackup 8.1.2 Hotfix - Slow replication jobs due to oversubscription (Etrack 3987112)	Primary(Master) Server, Media Server, Client

Veritas Services and Operations Readiness Tools (SORT)

UPD832064	NetBackup 8.1.2 Hotfix - slow bpd performance related to AIR replication of small jobs (Etrack 3987438)	Primary(Master) Server, Media Server, Client
UPD353488	NetBackup 8.1.2 Hotfix - VMware snapshots not deleted from ../netbackup/online_util/fi_cntl (Etrack 3965862)	Primary(Master) Server, Media Server, Client
UPD326331	NetBackup 8.1.2 Hotfix - Provide support for Nutanix AOS 5.10 (Etrack 3971741)	Primary(Master) Server, Media Server, Client
UPD928016	NetBackup 8.1.2 Hotfix - Oracle API unable to handle 10 digit timestamps in RMAN _%t format (Etrack 3983053)	Primary(Master) Server, Media Server, Client
UPD751814	NetBackup tool - NetBackup Catalog Consistency Repair Utility (NBCCR) (article 100005779)	Primary(Master) Server, Media Server, Client
UPD163655	NetBackup 8.1.2 Hotfix - NBU Cluster inoperable after configurecerts fails to renew tomcat (Etrack 3985995)	Primary(Master) Server, Media Server, Client
UPD174731	NetBackup 8.1.2 Hotfix - Remove drpkg extension from nbdpkg check utility (Etrack 3968439)	Primary(Master) Server, Media Server, Client
UPD429718	NetBackup 8.1.2 Hotfix - Image Cleanup NB_dbsrv 100% - Media server loses nbemm (Etrack 3969572)	Primary(Master) Server, Media Server, Client
UPD432977	NetBackup 8.1.2 Hotfix - nbdeployutil and Smart Meter bundle with CVE-2021-44228 and CVE-2021-45046 Apache Log4j 2.17.1 fix (Etrack 3983309)	Primary(Master) Server, Media Server, Client
UPD713160	NetBackup 8.1.2 Hotfix - SAN resets causing client drops from Python FC drives (Etrack 3969277)	Primary(Master) Server, Media Server, Client
UPD883022	NetBackup 8.1.2 Hotfix - Update TomCat to version 8.5.39 (Etrack 3974567)	Primary(Master) Server, Media Server, Client

UPD978190	NetBackup 8.1.2 Hotfix - segmentation fault executing "bplist - json_compact" (Etrack 3983426)	Primary(Master) Server, Media Server, Client
UPD703487	NetBackup 8.1.2 Hotfix - NBSU takes 10 hours after upgrade (Etrack 3975144)	Primary(Master) Server, Media Server, Client
UPD997738	NetBackup 8.1.2 - Add completion report to nbstlutil to display replication state of SLP images (Etrack 3996230)	Primary(Master) Server, Media Server, Client
UPD379670	NetBackup 8.1.2 Hotfix - Catalog backup skipping .f files for Oracle IP/SQL IP backup images (Etrack 3997818)	Primary(Master) Server, Media Server, Client
UPD418826	NetBackup 8.1.2 and NetBackup Appliance 3.1.2 EEB Package (Etrack 4008021)	Primary(Master) Server, Media Server, Client
UPD392409	NetBackup 8.1.2/3.1.2.0 Hotfix - NBA: Plugin: 84502 Vulnerability: HSTS Missing From HTTPS Server on Appliance (Etrack 4019187)	Primary(Master) Server, Media Server, Client

NetBackup Documentation References:

[Guidelines for the availability of EEB/hotfixes](#)

[Updates, Patches and Late Breaking News for NetBackup 8.1, NetBackup 8.1.1 and NetBackup 8.1.2](#)

Patches for Operating System for Primary(Master) Server,Media Server and Client

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Required Patches			
Operating system type and version	NetBackup role	Patch	Notes

SUSE Linux Enterprise Server 12	Master, media, client	Kernel-3.12.31 or later	More information is available: Security update for the Linux Kernel: SUSE-SU-2015:0068-1: https://www.suse.com/support/update/announcement/2015/suse-su-20150068-1.html
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Any patch(es) listed here should be considered the minimum patch level that is required to install and run NetBackup. Check the vendor's web site as these patches may have been replaced or superseded.

NetBackup Documentation References:
[NetBackup Release Notes](#)
[NetBackup Self Service Release Notes](#)

NetBackup Appliances

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NetBackup Appliances are Veritas-branded devices offering backup and deduplication solutions for enterprise environments in an appliance form factor. For more information, see the "[NetBackup Appliances](#)" page.

NetBackup 5200 Series (Master/Media Server/CloudCatalyst), 5300 Series (Media Server), Virtual, and Flex Appliances

The following tables list NetBackup 5200 Series, 5300 Series, and Virtual release versions, the Appliance models supported with each version, and the NetBackup Release version on which it is based.

There is also a table listing NetBackup Flex Appliance versions, the Appliance models supported with each version, and the Master Server and Media Server versions supported with each version.

Documentation for NetBackup Appliances [is available here](#). Late breaking news related to NetBackup Appliances [is available here](#).

NetBackup Appliance packages and hotfixes [are available on Downloads Center](#).

NOTE: References to NetBackup 5200 and 5220 Appliances have been removed from this document since these models are no longer supported.

NetBackup 5300 Series - Supported Versions

NetBackup 5300 Series Appliance Release	Supported NetBackup Appliance Models	Based on NetBackup Release
3.1.2	5340, 5330	8.1.2
3.1.1	5340, 5330	8.1.1
3.1	5340, 5330	8.1
3.0	5330	8.0
2.7.3	5330	7.7.3
2.7.2	5330	7.7.2
2.7.1	5330	7.7.1

NetBackup 5200 Series - Supported Versions

NetBackup 5200 Series Appliance Release	Supported NetBackup Appliance Models	Based on NetBackup Release
3.1.2	CloudCatalyst 5240, 5240, 5230	8.1.2
3.1.1	CloudCatalyst 5240, 5240, 5230	8.1.1
3.1	CloudCatalyst 5240, 5240, 5230	8.1
3.0	5240, 5230	8.0
2.7.3	5240, 5230	7.7.3
2.7.2	5230	7.7.2
2.7.1	5230	7.7.1

NetBackup Virtual Appliance - Supported Versions

NetBackup Virtual Appliance Release	Based on NetBackup Release
3.1.2	8.1.2
3.1.1	8.1.1
3.1	8.1
3.0	8.0

NetBackup Flex Appliance - Supported Versions

NetBackup Flex Appliance Release	Supported NetBackup Appliance Models	Supported NetBackup Master Server Versions	Supported NetBackup Media Server Versions
1.3	5340 (Configuration A), 5150	8.2, 8.1.2, 8.1.1, 8.1 ^[1]	8.2, 8.1.2, 8.1.1, 8.1 ^[1]

Footnotes

1. Veritas strongly recommends running NetBackup 8.2 or later with Flex Appliance.

Configuring Cloud Solutions with NetBackup CloudCatalyst Appliances

The table below shows when a NetBackup cloud configuration and device mappings RPM package is required for configuring cloud providers with NetBackup CloudCatalyst Appliances. "Included in release" means that version of the NetBackup Appliance software contains the information needed for configuring that cloud provider, so installing an RPM is not required.

When to install a Cloud Configuration/Device Mappings RPM for NetBackup CloudCatalyst Appliance

Cloud solution	NetBackup Appliances running 3.1	NetBackup Appliances running 3.1.1	NetBackup Appliances running 3.1.2
ACP CS3 (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Alibaba Cloud Object Storage Service (OSS) (S3)	Not supported	Install RPM 1.0.2 or later	Included in release
Amazon GovCloud Simple Storage Service (S3)	Included in release	Included in release	Included in release
Amazon GovCloud Simple Storage Service - Infrequent Access (S3)	Included in release	Included in release	Included in release
Amazon Simple Storage Service (S3)	Included in release	Included in release	Included in release
Amazon Simple Storage Service - Infrequent Access (S3)	Included in release	Included in release	Included in release

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Amazon Simple Storage Service - OneZone-Infrequent Access (S3)	Not supported	Install RPM 1.0.5 or later	Install RPM 1.0.5 or later
AT&T Cloud Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
China Mobile CMCC Cloud Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
China Telecom OOS (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Chunghwa Telecom Hicloud S3 (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Cloudian HyperStore Object Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Dell EMC Elastic Cloud Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Deutsche Telekom Open Telekom Cloud (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Fujitsu ETERNUS CD10000 (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Google Cloud Storage - Multi-Regional (S3)	Included in release	Included in release	Included in release
Google Cloud Storage - Regional (S3)	Included in release	Included in release	Included in release
Google Cloud Storage Coldline (S3)	Included in release	Included in release	Included in release
Google Cloud Storage Nearline (S3)	Included in release	Included in release	Included in release
Hitachi Content Platform (HCP) (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Huawei FusionStorage (S3)	Install RPM 1.0.2 or later	Install RPM 1.0.2 or later	Included in release
Huawei OBS Object Storage Service (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Huawei OceanStor 9000 (S3)	Install RPM 1.0.2 or later	Install RPM 1.0.2 or later	Included in release

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IBM Cloud Object Storage - Cold Vault (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
IBM Cloud Object Storage - Flex (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
IBM Cloud Object Storage - Private (S3)	Included in release	Included in release	Included in release
IBM Cloud Object Storage - Standard (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
IBM Cloud Object Storage - Vault (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Infoniqa SWISS3CLOUD (S3)	Install RPM 1.0.2 or later	Install RPM 1.0.2 or later	Included in release
Iron Mountain Iron Cloud (S3)	Install RPM 1.0.5 or later	Install RPM 1.0.5 or later	Install RPM 1.0.5 or later
Kingsoft Standard Storage Service (KS3) - Standard (S3)	Install RPM 1.0.3 or later	Install RPM 1.0.3 or later	Install RPM 1.0.5 or later
Kingsoft Standard Storage Service (KS3) - Standard IA (S3)	Install RPM 1.0.4 or later	Install RPM 1.0.4 or later	Install RPM 1.0.5 or later
Microsoft Azure (Azure)	Included in release	Included in release	Included in release
Microsoft Azure Germany (Azure)	Install RPM 1.0.6 or later	Install RPM 1.0.6 or later	Install RPM 1.0.6 or later
Microsoft Azure Government (Azure)	Included in release	Included in release	Included in release
NEC Cloud IaaS (S3)	Install RPM 1.0.2 or later	Install RPM 1.0.2 or later	Included in release
NEC HYDRAsTOR HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) (S3)	Install RPM 1.0.2 or later	Install RPM 1.0.2 or later	Included in release
NEC HYDRAsTOR HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC	Install RPM 1.0.2 or later	Install RPM 1.0.2 or later	Included in release

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Storage HS3 and HS8 (5th Gen) (S3)			
NetApp StorageGRID Webscale Object Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
NooBaa (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Oracle Cloud Service (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Oracle Cloud Infrastructure (S3)	Not supported	Install RPM 1.0.1 or later	Included in release
Quantum Active Archive and ActiveScale Systems (S3) (formerly HGST)	Install RPM 1.0.1 or later	Included in release	Included in release
Quantum Lattus Object Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Red Hat Ceph Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Scality RING Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
SUSE Enterprise Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
SwiftStack Object Storage (S3)	Install RPM 1.0.1 or later	Included in release	Included in release
Telefonica Open Cloud (S3)	Install RPM 1.0.2 or later	Install RPM 1.0.2 or later	Included in release
Veritas Access (S3)	Included in release	Included in release	Included in release
Veritas Access 3340 Appliance (S3)	Not supported	Included in release	Included in release
Veritas Cognitive Object Storage (S3)	Install RPM 1.0.3 or later	Install RPM 1.0.3 or later	Install RPM 1.0.3 or later

NetBackup 5200 Series, 5300 Series, and Virtual Appliance Supported Functionality

The following table lists NetBackup 5200 Series, 5300 Series, and Virtual Appliance supported functionality and indicates the minimum NetBackup Appliance Release version required for support of that functionality. NetBackup 5200 Series, 5300 Series, and Virtual Appliances can be used with all supported core NetBackup clients (see the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](#)"), application and database agents (see the "[NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List](#)"), and [Snapshot client](#) configurations.

NetBackup 5200 Series, 5300 Series, and Virtual Appliances - Supported Functionality

Functionality	Minimum Appliance Release	Supported Appliance Models	Notes
NetBackup Master/Media Server	2.7.1 (5200 Series) 3.1.2 (Virtual)	5200 Series, Virtual	The Master Server role is only supported on 5200 Series and Virtual Appliances. Key Management Service (KMS) and NetBackup Access Control (NBAC) are not supported when the Appliance is configured as a Master Server.
NetBackup Media Server	2.7.1	5200 Series, 5300 Series, Virtual	The Master Server in the NetBackup domain must be running a version of NetBackup equal to or newer than the NetBackup version on which the appliance is based. Support begins with NetBackup 7.0.1.
NetBackup CloudCatalyst Appliance	3.1 (5240G) 3.1.2 (Virtual)	5240 (Configuration G with 192 GB of memory), Virtual	
Accelerator (for files and folders)	2.7.1	5200 Series, 5300 Series, Virtual	
Accelerator with NDMP	2.7.1	5200 Series, 5300 Series, Virtual	Supported with Dell EMC Isilon Scale-Out NAS filers (requires NetBackup Appliance version 3.1 or later), and NetApp AFF, FAS, and V series filers. When using this feature with a NetBackup Virtual Appliance, monitor the /dev/mapper/system-log partition to ensure it does not exceed 50% of capacity, and manage log files to increase remaining partition capacity. For information on

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			managing accelerator track log files, see "About the track log for Accelerator for NDMP" . For more information on this feature, see the "About NetBackup Accelerator for NDMP" .
Accelerator with VMware-type policies	2.7.1	5200 Series, 5300 Series, Virtual	
Auto Image Replication to MSDP/5200 Series or 5300 Series over Ethernet	2.7.1	5200 Series, 5300 Series, Virtual	
Auto Image Replication to MSDP/5200 Series or 5300 Series over Fibre Channel (FC)	2.7.3	5200 Series, 5300 Series	
Auto Image Replication to PDDO/5000 Series	2.7.1	5200 Series, 5300 Series, Virtual	
Client Deduplication / Client Direct over Ethernet	2.7.1	5200 Series, 5300 Series, Virtual	Veritas allows NetBackup Clients to write data directly to NetBackup Storage Server Appliances. The client hosts the deduplication plug-in that deduplicates the backup data. The plug-in sends only unique segments to the Storage Server, reducing network traffic and distributing CPU load. For the list of supported clients, see the "Deduplication Supported Operating Systems" section of the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" .

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Copilot for Oracle	2.7.1	5230, 5240, 5330, 5340	For more information on this feature, see the "NetBackup Copilot for Oracle Configuration Guide" .
Fibre Transport Media Server	2.7.1	5230, 5240, 5330, 5340	Supported with 8 Gb HBAs in NetBackup 5230, 5240, 5330, and 5340 Appliances. Supported with 16 Gb HBAs in NetBackup 5240 and 5340 Appliances running 3.1.2 or later.
FIPS-compliant encryption	3.1.2	5200 Series, 5300 Series, Virtual	FIPS-compliant encryption, as defined by the Federal Information Processing Standards 140-2, can be enabled from the NetBackup Shell Menu. For more information, see the "NetBackup Appliance Security Guide" .
Granular Recovery Technology (GRT)	2.7.1	5200 Series, 5300 Series, Virtual	
Granular Recovery Technology (GRT) with VMware-type policies	2.7.1	5200 Series, 5300 Series, Virtual	Support for VMware-type backup policies with Application Protection options enabled for Exchange or SharePoint.
Instant Data Access	3.1.2	5240, 5330, 5340	This feature allows you to create an Instant Access VM from a NetBackup backup image. The VM is available almost instantaneously, achieving a near-zero recovery time objective. NetBackup mounts the VM snapshot

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			<p>directly on the backup storage device to allow your ESXi host or cluster to treat the snapshot as a normal VM. For more information, see the "NetBackup Web UI VMware Administrator's Guide" .</p>
Instant Recovery for VMware	2.7.1	5200 Series, 5300 Series, Virtual	<p>Support for restoring virtual machines with Instant Recovery is described in the "NetBackup for VMware Administrator's Guide" .</p> <p>For details on supported platforms for instant recovery restore hosts, see "Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments" .</p>
iSCSI Initiator - Hardware-assisted with TCP Offload Engine (TOE) card	3.0	5240 (Configuration H), 5340 (Configurations A, B, C, D, and E)	<p>Supports backup of VMware virtual machines using VADP with SAN transport. For more information on this feature, see the "NetBackup Appliance iSCSI Guide" and the "NetBackup for VMware Administrator's Guide" .</p>
Key Management Service (KMS)	2.7.1 3.1.2 (MSDP)	5200 Series, 5300 Series	<p>With version 3.1.2 and later, KMS supports encryption for MSDP.</p> <p>With version 2.6 and later, KMS is supported with Appliances configured as either a Master or a Media Server. With a NetBackupCLI administrator account in the NetBackup</p>

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			<p>Appliance Shell Menu, an Appliance Master Server can administrate KMS with tape devices connected to itself or another NetBackup Appliance. Regenerating the data encryption key is the only supported method of recovering KMS on an Appliance Master Server.</p> <p>With versions earlier than 2.6, KMS is only supported when the Appliance is configured as a Media Server, and a non-Appliance Master Server is required to administrate KMS with devices connected to a NetBackup Appliance.</p>
NetBackup Access Control (NBAC)	2.7.1	5200 Series, 5300 Series	<p>Supported when the Appliance is configured as a Media Server only.</p> <p>Not supported when the Appliance is configured as a Master Server.</p>
NDMP	2.7.1	5200 Series, 5300 Series, Virtual	<p>Supported NDMP solutions are listed in the NDMP devices Vendor Compatibility section.</p>
NetBackup Cluster			<p>There are no plans to support this feature.</p>
NetBackup OpenStorage Cloud and Third-Party Plug-in Support	2.7.1	5200 Series, 5300 Series	<p>Supported plug-ins are listed in the "Support with NetBackup Appliance" tables shown in the OST Cloud and OST Storage</p>

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			<p>Servers Vendor Compatibility sections.</p> <p>For instructions on installing vendor plug-in packages on NetBackup Appliances, see "About OpenStorage plugin installation" .</p>
OpsCenter	2.7.1	5200 Series, 5300 Series, Virtual	
OpsCenter Managed Server	2.7.1	5200 Series, 5300 Series, Virtual	
Optimized Duplication (Opt_Dup) over Ethernet	2.7.1	5200 Series, 5300 Series, Virtual	Supported from 5200/5300 Series/Virtual to 5000 Series (MSDP to PDDO) and from 5200/5300 Series/Virtual to 5200/5300 Series/Virtual (MSDP to MSDP).
Optimized Duplication (Opt_Dup) over Fibre Channel (FC)	2.7.1 2.7.3	5200 Series, 5300 Series	Supported from 5200/5300 Series to 5000 Series (MSDP to PDDO). Supported from 5200/5300 Series to 5200/5300 Series (MSDP to MSDP) with versions 2.7.3 or later.
Optimized Synthetics (Opt_Synth)	2.7.1	5200 Series, 5300 Series, Virtual	NetBackup Appliance version 2.0 or later/NetBackup 7.1 or later is recommended for Optimized Synthetics support.
Tape Drive Support	2.7.1 (FC) 3.1 (SAS)	5200 Series, 5300 Series	Supported tape drives are listed in the "Support with NetBackup Appliance" tables shown in the Tape Drives Vendor Compatibility section.

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			Shared Storage Option (SSO) is supported.
Tape Library Support	2.7.1 (TLD & ACS) 3.1 (SAS tape-out)	5200 Series, 5300 Series	Supported tape libraries are listed with the notes "This library is also supported with NetBackup 5200 Series and 5300 Series Appliances" and "This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter" in the Tape Libraries Vendor Compatibility section. Use the NetBackup Device Configuration Wizard within the NetBackup Administration Console to configure robots and tape drives on the NetBackup Appliance.
Universal Shares	3.1	5240, 5330, 5340	For more information on configuring Universal Shares, see Manage > Storage > Universal Shares
Virtual Tape Library (VTL) Support	2.7.1	5200 Series, 5300 Series	Supported VTLs are listed in the "Support with NetBackup Appliance" tables shown in the Virtual Tape Libraries Vendor Compatibility section. Use the NetBackup Device Configuration Wizard within the NetBackup Administration Console to configure VTLs and emulated tape drives on the NetBackup Appliance.

NetBackup 5000 Series Appliances (Deduplication)

The following table lists NetBackup 5000 Series release versions, the Appliance models supported with each version, and the equivalent Deduplication Appliance software versions. Documentation for NetBackup Appliances [is available here](#). Late breaking news related to NetBackup Appliances [is available here](#).

NOTE: References to NetBackup 5000 and 5020 Appliances have been removed from this document since these models are no longer supported.

NetBackup 5000 Series - Supported Versions

NetBackup 5000 Series Appliance Release	Supported NetBackup Appliance Models	NetBackup 5000 Series Appliance Software Version
1.4.5	5030	6.6.5

NetBackup 5000 Series Appliance Supported Functionality

The following table lists NetBackup 5000 Series supported functionality and indicates the Appliance software version at which that functionality was first supported.

NetBackup 5000 Series - Supported Functionality

Functionality	Minimum Appliance Release	Supported Appliance Models	Notes
Accelerator (for files and folders)	1.4.5	5030	
Auto Image Replication	1.4.5	5030	
Call Home	1.4.5	5030	
Client Deduplication / Client Direct over Ethernet	1.4.5	5030	Veritas allows NetBackup Clients to write data directly to NetBackup Storage Server Appliances. The client hosts the deduplication plug-in that deduplicates the backup data. The plug-in sends only unique segments to the Storage

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			Server, reducing network traffic and distributing CPU load. For the list of supported clients, see the "Deduplication Supported Operating Systems" section of the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" .
Fibre Channel support for PDDO	1.4.5	5030	
Granular Recovery Technology (GRT)	1.4.5	5030	
Intelligent Platform Management Interface (IPMI) support	1.4.5	5030	
NetBackup OST Storage Server	1.4.5	5030	Supported OpenStorage functionality and Media Server platforms are listed in the OST Storage Servers section of OST Secondary Storage Solutions.
Optimized Duplication (Opt_Dup)	1.4.5	5030	
Optimized Duplication (Opt_Dup) from PDDO to MSDP	1.4.5	5030	Supported from 5000 Series to 5200/5300 Series.
Optimized Synthetics (Opt_Synth)	1.4.5	5030	
PureDisk Remote Office Appliance	1.4.5	5030	Supported clients: Apple Mac OS, Hewlett Packard Enterprise HP-UX, IBM AIX, Microsoft Windows, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, Oracle

			Solaris. Supported application agents: Microsoft Exchange, Microsoft SQL, Oracle. For specific versions see the "NetBackup PureDisk 6.6.1 Compatibility List" .
Virtual Local Area Network (VLAN)	1.4.5	5030	

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

[Appliance Compatibility List](#)

NetBackup Self Service

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Veritas NetBackup Self Service offers large enterprises and service providers a single store front for all backup and recovery service offerings. Customers and business users can perform self-service backup and restore operations using intuitive, custom-designed interface themes. A single instance supports the registration of multiple tenants or business units to allow secure separation between clients. Codeless, visually-designed forms and process workflows cater to most self-service needs. Service Level Agreement (SLA) measurement, notification, chargeback, and reporting make it easy to manage the service.

NetBackup Self Service Documentation

- Veritas NetBackup™ Self Service Installation Guide: https://www.veritas.com/support/en_US/doc/109481741-127663622-0/index
- Veritas NetBackup™ Self Service Release Notes: https://www.veritas.com/support/en_US/doc/109473637-127663620-0/index
- Veritas NetBackup™ Self Service Configuration Guide: https://www.veritas.com/support/en_US/doc/109536476-127663621-0/index

NetBackup Self Service OS Platform Compatibility

NetBackup Self Service Versions	Supported Platforms	Supported Databases
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NetBackup Self Service 8.0	Windows Server 2008 R2 Windows Server 2012/2012 R2	Microsoft SQL Server 2012 Microsoft SQL Server 2014
NetBackup Self Service 8.1	Windows Server 2012/2012 R2 Windows Server 2016	Microsoft SQL Server 2012 Microsoft SQL Server 2014 Microsoft SQL Server 2016
NetBackup Self Service 8.1.2	Windows Server 2012/2012 R2 Windows Server 2016	Microsoft SQL Server 2012 Microsoft SQL Server 2014 Microsoft SQL Server 2016
NetBackup Self Service 8.2	Windows Server 2012/2012 R2 Windows Server 2016	Microsoft SQL Server 2012 Microsoft SQL Server 2014 Microsoft SQL Server 2016 Microsoft SQL Server 2017 Azure SQL database Microsoft SQL Server on Amazon RDS
NetBackup Self Service 8.3	Windows Server 2012 R2 Windows Server 2016 Windows Server 2019	Microsoft SQL Server 2012 Microsoft SQL Server 2014 Microsoft SQL Server 2016 Microsoft SQL Server 2017 Azure SQL database Microsoft SQL Server on Amazon RDS

NetBackup Master Server Compatibility

- NetBackup Self Service does not require the NetBackup client software to be installed on the Web server or SQL server, However it is recommended to have the NetBackup Client software Installed.
- The master server version remains restricted to the Netbackup client version or later versions incase the NetBackup Client software is installed on the Web Server or SQL server.

NetBackup Self Service Versions	NetBackup Versions	Appliance Versions
NetBackup Self Service 8.0	NetBackup 7.7 NetBackup 7.7.1 NetBackup 7.7.2 NetBackup 7.7.3 NetBackup 8.0	NetBackup Appliance 2.7.1 NetBackup Appliance 2.7.2 NetBackup Appliance 2.7.3 NetBackup Appliance 3.0 NetBackup Virtual Appliance 3.0

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NetBackup Self Service 8.1	NetBackup 7.7 NetBackup 7.7.1 NetBackup 7.7.2 NetBackup 7.7.3 NetBackup 8.0 NetBackup 8.1 NetBackup 8.1.1	NetBackup Appliance 2.7.1 NetBackup Appliance 2.7.2 NetBackup Appliance 2.7.3 NetBackup Appliance 3.0 NetBackup Appliance 3.1 NetBackup Appliance 3.1.1 NetBackup Virtual Appliance 3.0
NetBackup Self Service 8.1.2	NetBackup 7.7 NetBackup 7.7.1 NetBackup 7.7.2 NetBackup 7.7.3 NetBackup 8.0 NetBackup 8.1 NetBackup 8.1.1 NetBackup 8.1.2	NetBackup Appliance 2.7.1 NetBackup Appliance 2.7.2 NetBackup Appliance 2.7.3 NetBackup Appliance 3.0 NetBackup Appliance 3.1 NetBackup Appliance 3.1.1 NetBackup Appliance 3.1.2 NetBackup Virtual Appliance 3.0
NetBackup Self Service 8.2	NetBackup 8.0 NetBackup 8.1 NetBackup 8.1.1 NetBackup 8.1.2 NetBackup 8.2	NetBackup Appliance 3.0 NetBackup Appliance 3.1 NetBackup Appliance 3.1.1 NetBackup Appliance 3.1.2 NetBackup Appliance 3.2 NetBackup Virtual Appliance 3.0
NetBackup Self Service 8.3	NetBackup 8.0 NetBackup 8.1 NetBackup 8.1.1 NetBackup 8.1.2 NetBackup 8.2 NetBackup 8.3 NetBackup 8.3.0.1	NetBackup Appliance 3.0 NetBackup Appliance 3.1 NetBackup Appliance 3.1.1 NetBackup Appliance 3.1.2 NetBackup Appliance 3.2 NetBackup Appliance 3.3.0.1 NetBackup Virtual Appliance 3.0 NetBackup Virtual Appliance 3.3.0.1

VMware vCloud Director Compatibility

- The NetBackup master server must also support the vCloud Director version

Self Service Versions	vCloud Director Versions
NetBackup Self Service 8.0	5.5, 5.6, 8.0, 8.10, 8.20, 9.0
NetBackup Self Service 8.1	5.5, 5.6, 8.0, 8.10, 8.20, 9.0
NetBackup Self Service 8.1.2	5.5, 5.6, 8.0, 8.10, 8.20, 9.0
NetBackup Self Service 8.2	5.5, 5.6, 8.0, 8.10, 8.20, 9.0, 9.1
NetBackup Self Service 8.2 MR1	5.5, 5.6, 8.0, 8.10, 8.20, 9.0, 9.1, 9.5 , 9.7 [1][1]
NetBackup Self Service 8.3	5.5, 5.6, 8.0, 8.10, 8.20, 9.0, 9.1, 9.5 , 9.7 , 10.0 , 10.1 [1][1][1][1]

Footnotes

1. VMware vCloud Director 9.5 and later requires VMware vCenter servers versions 6.5 and later .

NetBackup Self Service Supported Web Browsers

- Microsoft Edge
- Microsoft Internet Explorer 11
- Mozilla Firefox
- Google Chrome
- Apple Safari [not recommended]

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Software Compatibility List (SCL) for Primary(Master) Server and Media Server

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NetBackup is supported on all editions (Advanced, Base, DC, etc.) and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless stated otherwise in the tables below.

IBM POWER 8/9 platform is supported only with Little Endian hardware architecture.

SUSE SUSE Linux Enterprise Server - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Primary Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
SUSE Linux Enterprise Server 12	x86-64	64	Y ^[1]	Y	64	Y	Y	Y	Y	8.0

Footnotes

1. SUSE Linux Enterprise Server 12 Service Pack 1 is supported with known Issue : <http://www.veritas.com/docs/000106399>

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

[Operating Systems Compatibility List General Information](#)

System Requirements for Primary(Master) Server

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NetBackup Binary Size

Approximate binary size of the NetBackup server software (includes client software) for an initial install.

OS - All Versions	CPU Architecture	32-bit server	64-bit server	Notes
SUSE Linux Enterprise Server	x86-64		7079MB	

Primary(Master) Server Minimum Physical Memory Requirement

OS/Version	CPU Architecture	Minimum Memory Requirement
SUSE Linux Enterprise Server 12	x86-64	16 GB

File Descriptor and File Size Requirements

The number of file descriptors for the Primary(Master) Server must be set to at least 8000. See 'ulimit -n' output value.

The file size limit for the Primary(Master) Server must be set to unlimited. See 'ulimit -f' output value.

Operating System Tuning Requirements

The following semaphore values can impact performance of the Server.

The recommended semaphore values are as follows:

SEMMSL	SEMMNS	SEMOPM	SEMMNI
300	307200	32	1024

Catalog Maintenance Disk Space Requirement

This system requirement only applies to upgrades from one major, minor or release update (single or double dot) version to another, not an initial install.

Database rebuilds are likely to occur in each major, minor (single-dot), and release update (double-dot) version of NetBackup.

Therefore, before upgrading to NetBackup major, minor, or release update, you must ensure that you have an amount of free disk space available that is equal to or greater than the size of the NetBackup database. That means for default installations, you are required to have that amount of free space on the file system containing the /usr/opensv/db/data directory. If you have changed the location of some of the files in this directory, free space is required in those locations equal to or greater than the size of the files in those locations. For specific information for your environment, use the SORT data collector to generate a custom report. Refer to the [NetBackup 8.1.2 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.

Temporary Disk Space Requirement for Install or Upgrade

After downloading the software, temporary disk space is required for the installation process. You may designate where this temporary space is located via use of environment variables, NB_TMPDIR or TMPDIR. NB_TMPDIR is used if set, TMPDIR next if set, otherwise /tmp. You will need approximately 505 MBs of temporary disk space during the install.

If using Live Update, you will need 4.5 GBs of temporary disk space. The location of the temporary disk space is designated in the 'workdir' setting in the /usr/opensv/netbackup/nblu.conf file with /tmp being the default.

Web Server User Account Requirement

Beginning with NetBackup 8.0, the primary(master) server includes an active web server to support critical backup operations. A user account must be setup for it. Consult [Tomcat setup](#) for details on setting up this account.

Valid Characters in Host Names Requirement

NetBackup requires host names to comply with [RFC-1123](#), meaning only ASCII characters "a" thru "z", case insensitive, and digits "0" thru "9" and the hyphen character.

CPU Cores Recommendation

Beginning with NetBackup 8.1, it is recommended that the primary(master) server host have 4 CPU cores.

NetBackup Documentation References:

[ERROR CODE: error 26 bpbm jobs failing with status 26](#)

[Information on resource allocation within NetBackup](#)

[Insufficient system file descriptors can cause performance issues and possible growth in the EMM_DATA.db file](#)

[Minimum O/S ulimit settings on UNIX platforms](#)

[NetBackup OpsCenter Performance and Tuning Guide](#)

[NetBackup pre-install check detects insufficient space to perform upgrade](#)

[Recommended NetBackup UNIX / Linux semaphore tuning values \(Linux/Solaris/HP-UX/AIX\)](#)

[NetBackup Release Notes](#)

[NetBackup Self Service Release Notes](#)

System Requirements for Media Server

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NetBackup Binary Size

Approximate binary size of the NetBackup server software (includes client software) for an initial install.

OS - All Versions	CPU Architecture	32-bit server	64-bit server	Notes
SUSE Linux Enterprise Server	x86-64		7079MB	

Media Server Minimum Physical Memory Requirement

OS/Version	CPU Architecture	Minimum Memory Requirement
SUSE Linux Enterprise Server 12	x86-64	4 GB

File Descriptor and File Size Requirements

The number of file descriptors for the Media Server must be set to at least 8000. See 'ulimit -n' output value.

The file size limit for the Media Server must be set to unlimited. See 'ulimit -f' output value.

Operating System Tuning Requirements

The following semaphore values can impact performance of the Server.

The recommended semaphore values are as follows:

SEMMSL	SEMMNS	SEMOPM	SEMMNI
300	307200	32	1024

Temporary Disk Space Requirement for Install or Upgrade

After downloading the software, temporary disk space is required for the installation process. You may designate where this temporary space is located via use of environment variables, NB_TMPDIR or TMPDIR. NB_TMPDIR is used if set, TMPDIR next if set, otherwise /tmp. You will need approximately 505 MBs of temporary disk space during the install.

If using Live Update, you will need 4.5 GBs of temporary disk space. The location of the temporary disk space is designated in the 'workdir' setting in the /usr/opensv/netbackup/nblu.conf file with /tmp being the default.

Valid Characters in Host Names Requirement

NetBackup requires host names to comply with [RFC-1123](#), meaning only ASCII characters "a" thru "z", case insensitive, and digits "0" thru "9" and the hyphen character.

NetBackup Documentation References:

[NetBackup Release Notes](#)

[NetBackup Self Service Release Notes](#)

[ERROR CODE: error 26 bpbrm jobs failing with status 26](#)

[Minimum O/S ulimit settings on UNIX platforms](#)

Browser Requirements for NetBackup Web UI for Primary(Master) Server

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The NetBackup Web UI is compatible with the latest vendor-supported versions of web browsers.

For the best experience with the NetBackup Web UI, Veritas recommends that you use Google Chrome or Mozilla Firefox, without any plug-ins.

Web Browser	Versions	Notes
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Mozilla Firefox	60 or later.	The latest browser edition is recommended. Download from https://www.mozilla.org/en-US/firefox/
Google Chrome	65 or later.	The latest browser edition is recommended. Download from https://www.google.com/chrome/

NetBackup Documentation References:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

[NetBackup Web UI Backup Administrator's Guide](#)

[NetBackup Web UI Cloud Administrator's Guide](#)

[NetBackup Web UI Security Administrator's Guide](#)

[NetBackup Web UI VMware Administrator's Guide](#)

Integrated Snapshot Management using CloudPoint for Primary(Master) Server

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Information on hardware and cloud applications that are compatible with CloudPoint is contained in the following documents:

Veritas CloudPoint Compatibility Lists

Compatibility List Name	URL
CloudPoint 2.2.1 Hardware Compatibility List (HCL)	https://www.veritas.com/support/en_US/doc/CP_221_HCL
CloudPoint 2.2.1 Cloud Application Compatibility List	https://www.veritas.com/support/en_US/doc/CP_221_APP_CL
CloudPoint 2.2 Hardware Compatibility List (HCL)	https://www.veritas.com/support/en_US/doc/CP_22_HCL
CloudPoint 2.2 Cloud Application Compatibility List	https://www.veritas.com/support/en_US/doc/CP_22_APP_CL

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Replication Director for Media Server and Client

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The NetBackup Replication Director feature offers a single NetBackup interface for end-to-end data protection for unified policy management, snapshot copy management, snapshot copy monitoring, and global search and restore.

Replication Director support information is listed below, organized by vendor. The tables provide information on the versions of software tested, supported attachment methods and functionality, and other important notes about the hardware and its compatibility.

For more information on NetBackup Replication Director, see "[About NetBackup Replication Director](#)". This document contains links to important information about Replication Director requirements, latest issues, best practices, product documentation, limitations, and eLearning tutorial videos.

Replication Director - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the " NetBackup 8.0 - 8.x.x Operating System Software Compatibility List ". 1. Where support is shown for NetBackup 5200 Series or 5300 Series Appliances it means that the OST solution is supported on appliances running versions 3.0 or later, unless noted otherwise. 2. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.

	<p>3. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported.</p> <p>4. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported.</p> <p>5. CentOS and Oracle Linux are not supported with Replication Director, unless noted otherwise.</p> <p>6. In the vendor compatibility tables below, the column "NetBackup Version" indicates the NetBackup 8.x version at which that vendor software was first supported.</p>
Vendor support considerations	<p>1. In the vendor compatibility tables below, the column "Vendor Software" lists the vendor-supplied software that communicates with NetBackup OpenStorage. Refer to the storage vendor's NetBackup Replication Director site for details on the components that comprise this package.</p> <p>2. Minor versions of the vendor software listed in the tables below are also supported. (Example: Version "2.0" means versions 2.0.1, 2.0.2, 2.0p1, 2.0p2, etc. are also supported. Version "3" means versions 3.1, 3.2, 3.1p1, 3.1p2, etc. are also supported.)</p>
Operating system support dropped	<p>1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.</p> <p>2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.</p> <p>3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</p> <p>4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later.</p> <p>For information on migrating HP-UX master and media servers to other platforms, see the "NetBackup Master Server Migration Guide" and the "NetBackup Media Server Migration Guide".</p>

- 5. **IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later.** For information on migrating AIX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#) .
- 6. **Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.**
- 7. **Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.**
- 8. **Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.**
- 9. **Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.**
- 10. **SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.**
- 11. **SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.**
- 12. **Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.**

Replication Director - Supported Platforms for Block-attached Storage

Replication Director is supported with block-attached storage on the NetBackup Client and Media Server platforms listed in the table below. The table indicates the NetBackup 8.x version at which that platform was first supported with block-attached storage with Replication Director. The table also lists the file systems and multipathing tools supported on each platform.

Operating System	NetBackup 8.x Client Start of Support	NetBackup 8.x Media Server Start of Support	File System/Volume Manager	Multipathing Tools
SUSE Linux Enterprise Server 12 on x86-64	Not supported	8.0 GA		

Replication Director - Supported Platforms for NAS-attached Storage

Replication Director is supported with NAS-attached storage on the NetBackup Client and Media Server platforms listed in the table below. The table indicates the NetBackup 8.x version at which that platform was first supported with NAS-attached storage with Replication Director.

With NAS-attached storage, Replication Director supports NFS file systems on UNIX platforms and CIFS file systems on Windows platforms.

Operating System	NetBackup 8.x Client Start of Support	NetBackup 8.x Media Server Start of Support
SUSE Linux Enterprise Server 12 on x86-64	8.0 GA	8.0 GA

Replication Director - Links to Vendor Sites

Vendor-specific information on NetBackup Replication Director solutions is available at the storage vendor's website. The following table also contains links to Veritas Articles with information on identifying the version of the NetBackup Replication Director plug-in.

Vendor	Vendor Replication Director Solution Information/Compatibility	Vendor Software Version Information
Dell EMC		https://www.veritas.com/docs/100015087 "Software required to use Replication Director"
NetApp	https://support.netapp.com/matrix/	"Software required to use Replication Director"

Replication Director - Supported Functionality

The following table lists NetBackup Replication Director functionality and indicates the NetBackup 8.x version at which that functionality was first supported. For more information on Replication Director functionality, see the "[NetBackup Replication Director Solutions Guide](#)".

For supported versions of agents, see the "[NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List](#)". The version information contained in that document also applies to databases and applications residing in VMware Virtual Machines.

For supported versions of VMware, see "[Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments](#)".

NetBackup-directed Operations	Abbreviation	NetBackup 8.x Start of Support
Array-based Restore	Array-based_Restore	8.0 GA

Veritas Services and Operations Readiness Tools (SORT)

Snapshot Management for File System	Snapshot_Mgmt_FS	8.0 GA
Snapshot Replication for File System	Snapshot_Repl_FS	8.0 GA
Snapshot Management for Oracle	Snapshot_Mgmt_Oracle	8.0 GA
Snapshot Replication for Oracle	Snapshot_Repl_Oracle	8.0 GA
Snapshot Management for VMware	Snapshot_Mgmt_VMware	8.0 GA
Snapshot Replication for VMware	Snapshot_Repl_VMware	8.0 GA
Snapshot Management for Microsoft Exchange on VMware	Snapshot_Mgmt_VMware_Exchange	8.0 GA
Snapshot Replication for Microsoft Exchange on VMware	Snapshot_Repl_VMware_Exchange	8.0 GA
Snapshot Management for Microsoft SQL Server on VMware	Snapshot_Mgmt_VMware_SQL	8.0 GA
Snapshot Replication for Microsoft SQL Server on VMware	Snapshot_Repl_VMware_SQL	8.0 GA
Snapshot Management for Oracle on NFS Storage	Snapshot_Mgmt_Oracle_NFS	8.0 GA
Snapshot Replication for Oracle on NFS Storage	Snapshot_Repl_Oracle_NFS	8.0 GA
Snapshot Management for VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_NFS	8.0 GA
Snapshot Replication for VMware with NFS Attached Datastores	Snapshot_Repl_VMware_NFS	8.0 GA
Snapshot Management for Microsoft Exchange on VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_Exchange_NFS	8.0 GA
Snapshot Replication for Microsoft Exchange on VMware with NFS Attached Datastores	Snapshot_Repl_VMware_Exchange_NFS	8.0 GA
Snapshot Management for Microsoft SQL Server on VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_SQL_NFS	8.0 GA

Snapshot Replication for Microsoft SQL Server on VMware with NFS Attached Datastores	Snapshot_Repl_VMware_SQL_NFS	8.0 GA
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Replication Director - Vendor Compatibility

Contents (for details click on the checkbox)

Dell EMC

NetApp

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Virtual Systems Compatibility for Primary(Master) Server,Media Server and Client

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This Statement of Support for NetBackup in a Virtual Environment document describes the extent of support for NetBackup within a virtual environment. Ideally, every NetBackup configuration supported in a traditional physical environment would also be supported in any virtual environment without qualification. While that is our mission, it is not always possible.

Therefore, the purpose of this document is to:

- Clarify differences between NetBackup support in physical vs. virtual environments
- Describe general guidelines for support in virtual environments.
- Describe impact upon specific NetBackup components: clients, servers, options, etc.
- Provide references to related information.

VMware Compatibility

Virtual Systems Compatibility - Refer: Support for NetBackup in a Virtual Environment - https://www.veritas.com/content/support/en_US/article.100040093

- For supported vSAN configurations, refer article <https://kb.vmware.com/s/article/55071>
- NetBackup supports all minor patch releases (like: EP, U1x) unless otherwise noted.
- Software Defined Data-Center(SDDC) environments which includes NSX, NSX-T or other networking technologies are transparent to NetBackup and are supported.

- VMware Cloud on AWS (VMC) support starts from NetBackup 8.1.2
- Google Cloud VMware Engine (GCVE) is supported on NetBackup 8.1 and later versions

NetBackup Versions	VDDK Versions	vSphere Versions	vCloud Director Versions	Backup/Restore Host Versions
8.1.2	6.5.3	vSphere 6.7, 6.7 U1, 6.7 U2, 6.7 U3 vSphere 6.5, 6.5 U1, 6.5 U2, 6.5 U3 vSphere 6.0, 6.0 U1, 6.0 U2, 6.0 U3 vSphere 5.5, 5.5 U1, 5.5 U2, 5.5 U3 VMware vSAN 6.5, 6.6, 6.6.1, 6.7, 6.7 U1, 6.7 U2 Refer VMware VDDK release notes URL below for additional information on supported vCenter and ESXi versions.	5.5, 5.5.1, 5.5.2, 5.5.3, 5.5.4, 5.5.5, 5.5.6 5.1, 5.1.1, 5.1.2, 5.1.3 Service Provider Versions: 8.0, 8.0.1, 8.0.2, 8.10, 8.20, 9.0 5.6.5, 5.6.4, 5.6.3	All 64 bit only: Windows Server 2016, 2012 R2, 2012, 2008 R2 Windows 10 Red Hat Enterprise Linux (RHEL) 6.8, 6.9, 6.10, 7.2, 7.3, 7.4, 7.5, 7.6 SUSE Linux Enterprise Server (SLES) 11 SP4, 12 SP1

- For vCloud Director 8.0, 8.0.1, 8.0.2 to determine the host name: Refer to https://www.veritas.com/support/en_US/article.000108257
- For vCloud Director 8.0, 8.0.1, 8.0.2 NetBackup restores to vCloud: Refer to <http://www.veritas.com/docs/000108831>
- NetBackup does not support the vCloud Director 8.20, 9.0 and 10 feature called "Automatic discovery and import of vCenter VMs."

Note the following:

- NetBackup Web Client Plugin is not supported with VMware vSphere 7.0 U1, 7.0 U2, 7.0 U3 on NetBackup 8.3, 8.3.0.1 and 8.3.0.2
- NetBackup Web Client Plugin is not supported with VMware vSphere 7.0 and later updates on NetBackup 8.2
- NetBackup Instant Access is not supported with VMware vSphere 7.0 U1, 7.0 U2, and 7.0 U3 on NetBackup 8.3 and 8.3.0.2
- The EEB required for Instant Access with VMware vSphere 7.0 U1, 7.0 U2, and 7.0 U3 on 8.3.0.1 can be obtained from Veritas Technical Support. Refer https://www.veritas.com/support/en_US/article.100048721 for additional details.

- VMware version information can also be obtained from the VMware Product Interoperability Matrix, and is subject to change by VMware. For the latest information, see the following: http://www.vmware.com/resources/compatibility/sim/interop_matrix.php
- NetBackup supports installation of the backup host in a virtual machine (VMware "hotadd"). The guest operating systems that NetBackup supports for hotadd are the same as the above.
- For the Linux VMware backup host or restore host, locales other than UTF-8 are not supported.
- NetBackup 8.0 and later supports VMware Virtual Volumes (VVols)
- NetBackup 8.1.2 introduces Instant Access for VMware for vCenter and ESXi versions 5.5 and later.
- NetBackup supports all triple-dot versions of VMware vCloud Director, unless otherwise noted.
- Install "VMware ESXi 6.0, Patch Release ESXi600-201511001 (2137545)" for consistent backups. This ESX patch is mandatory, according to VMware, to fix the data loss situation reported in VMware KB article 2136854. For more information about the cause and the resolution of this issue, see: http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2136854

VMware VDDK Release Notes:

- VDDK 6.0.2 Release Notes: <https://code.vmware.com/docs/3930/vddk-6-0-2-release-notes>
- VDDK 6.5.1 Release Notes: <https://code.vmware.com/docs/5584/virtual-disk-development-kit-6-5-1-release-notes>
- VDDK 6.5.2 EP1 Release Notes: <https://code.vmware.com/docs/6175/virtual-disk-development-kit-6-5-2-ep1-release-notes>
- VDDK 6.5.3 Release Notes: <https://code.vmware.com/docs/6842/virtual-disk-development-kit-6-5-3-release-notes>
- VDDK 6.7.2 Release Notes: <https://code.vmware.com/docs/8100/virtual-disk-development-kit-6-7-2-release-notes>
- VDDK 7.0 Release Notes: <https://code.vmware.com/docs/11697/virtual-disk-development-kit-7-0-release-notes>.

Hyper-V Servers Compatibility

Hyper-V is supported on Microsoft Windows Server Editions which are compatible with NetBackup Client. Refer to Operating System Compatibility table for details.

Hyper-V Servers Compatibility - Reference Article: TECH127089 Statement of Support for NetBackup in a Virtual Environment: <http://www.veritas.com/docs/000006177>

Note:

- NetBackup Client must be installed on the Hyper-V server
- Master and Media Server platform support as supported by the appropriate NBU release

NetBackup Versions	Hyper-V Server Versions	System Center Virtual Machine Manager Versions	Comments
8.0 8.1	Hyper-V Server 2019 Hyper-V Server 2016	NetBackup Add-In and Hyper-V Intelligent Policy for	• Hyper-V Intelligent Policy supported only for Hyper-

8.1.1	Hyper-V Server 2012 R2	• SCVMM 2012 R2	V Server 2012 R2 (and associated updates), Hyper-V Server 2016, Hyper-V Server 2019. • VHD and VHDX support
8.1.2	Hyper-V Server 2008 R2	• SCVMM 2016	
8.2	Hyper-V Server 2008SP2	• SCVMM 2019	
8.3			

File-level recovery from a Hyper-V backup is not supported in case of following scenarios.

- Any guest OS volume that resides on a 4Kn virtual disk (VHDX file).
- Files in guest OS that reside on REFS or NTFS deduplicated volume.

WMI backup features and limitations:

- WMI method is supported for Windows Server 2016 and above.
- Requires a VM configuration version later than 5.
- VMs can be hosted on either the NTFS, ReFS, Windows Storage Spaces, Storage Spaces Direct or SMB 3.0 file shares.
- WMI backup method does not support backup or restore of user-created checkpoints of the VM.
- Faster Hyper-V backup and recovery feature requires block-level incremental to be enabled and can only be saved to deduplication storage unit.

VSS backup limitations:

- VMs must reside on the NTFS file system (ReFS or NTFS Deduplication is not supported).
- Block-level incremental backup is not supported.
- Backing up VM's residing on SMB 3.0 file shares is not supported.

Hyper-V Limitations

- Backup of a Hyper-V guest OS that use VHD Sets or shared VHDX file is not supported.
- Hyper-V Server 2019 and System Center Virtual Machine Manager 2019 is supported from NetBackup version 8.1.2
- Hyper-V Server on windows Server Semi-Annual Channel builds are supported with partial functionality.
Refer technote for additional details <https://www.veritas.com/docs/100041472>

Azure Stack HUB versions and backup host

Supported Azure Stack versions and backup host operating systems

NetBackup protects Azure Stack virtual machines by integrating with Azure Stack APIs for Data Protection. Azure Stack Plugin can be installed on NetBackup Master, Media or Client to be used as Azure Stack Backup Host. All minor versions of Azure Stack are supported unless specifically noted in the table below. Customers that have a license for NetBackup Azure Stack agent can download the install package at: <https://my.veritas.com>

NetBackup Versions	Azure Stack Versions	Backup/Restore Host Versions
8.1.2	1908 2002 ^[1]	All 64 bit only: Red Hat Enterprise Linux: 7.4, 7.5 Veritas NetBackup Appliance: 3.1.2

Footnotes

1. EEB for NetBackup 8.1.2 can be obtained from Veritas technical support. For additional Details https://www.veritas.com/support/en_US/article.100047806

Note the following:

- NetBackup supports installation of the backup host in a virtual machine.
- Backups are Crash Consistent.
- Only full VM backup are supported. Backup and recovery of the entire virtual machine for all guest operating systems is supported.
- File-level recovery and protection of Managed Disks are not supported.
- For any issues, please refer the troubleshooting section in the "Veritas NetBackup for Azure Stack Administrator Guide"

VMware vRealize Compatibility

Veritas NetBackup plug-in for VMWare vRealize Version	VMWare vRealize Orchestrator Versions	NetBackup Versions
1.0	7.5 7.6	NetBackup 8.1.2 NetBackup 8.2 NetBackup 8.3 NetBackup 8.3.0.1
1.1	7.5 7.6	NetBackup 8.1.2 NetBackup 8.2 NetBackup 8.3 NetBackup 8.3.0.1

Note:

- NetBackup 8.2 and later versions support Backup Now for VMWare VM, AWS VM and AWS Volumes
- NetBackup 8.2 and later versions support API Key Authentication in addition to standard Authentication. This is recommended

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Cluster Compatibility for Primary(Master) Server

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This Software Compatibility List (SCL) document contains information for Veritas NetBackup 8.0 through 8.x.x. It covers NetBackup Server (which includes Enterprise Server and Server), Client, Bare Metal Restore (BMR), Clustered Master Server Compatibility and Storage Stacks, Deduplication, File System Compatibility, NetBackup OpsCenter, NetBackup Access Control (NBAC), SAN Media Server/SAN Client/FT Media Server, Virtual System Compatibility and NetBackup Self Service Support. It is divided into bookmarks on the left that can be expanded.

IPV6 and Dual Stack environments are supported from NetBackup 8.1.1 onwards with few limitations, refer technote for additional information <http://www.veritas.com/docs/100041420>

For information about certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and OS platforms that Veritas intends to replace with newer and improved functionality, or in some cases, discontinue without replacement, please see the widget titled "NetBackup Future Platform and Feature Plans" at <https://sort.veritas.com/netbackup>

Reference Article <https://www.veritas.com/docs/100040093> for links to all other NetBackup compatibility lists.

NetBackup Cluster Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Bare Metal Restore (BMR) Support for Primary(Master) Server

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General Information

Bare Metal Restore Server (BMR server) is a feature of the Master Server.

- BMR Boot Server

BMR Boot Server is supported on the same Operating Systems as the BMR client. In case of Windows, BMR Boot Server bitness is not relevant. I.E., a Windows x86 boot server can boot x86 and x64 servers and visa-versa.

- BMR Boot Server Requirements

Please Reference the Requirements for Bare Metal Restore (BMR) Boot Servers document for comprehensive information, <http://www.veritas.com/docs/000041982>.

Please refer to the following link for BMR supported configurations: https://www.veritas.com/support/en_US/article.000127612

Disclaimer:

- NetBackup Bare Metal restore functionality is not supported for restoring the clients which have NetBackup version 8.1 installed.
- NetBackup does not support BMR restore operations in AIX and HP-UX environments for clients with NetBackup version 8.1.1
- Bare Metal Restore of clients which have NetBackup version 8.0 and earlier installed, Veritas recommends that you should use Shared Resource Tree (SRT) having 8.0 and earlier client version.
- BMR restores uses NBCA certificates hence master and media (servers which have backup images for BMR client) should have NBCA enabled for BMR restores to work.

For more information on supported workflows refer technote https://www.veritas.com/support/en_US/article.100044534

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Deduplication Supported Operating Systems for Media Server

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If you are looking for information regarding PureDisk support, and not media server deduplication, reference article <http://www.veritas.com/docs/000008731>

For further details on recommended hardware reference NetBackup Deduplication: Additional Usage Information: <http://www.veritas.com/docs/000041111>

Where support is shown for "Windows Server 2008" or "Windows Server 2008 R2" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012", or "Windows Server 2012 R2" it is implied that Foundation Edition, Essentials Edition, Standard Edition, and Datacenter Edition are supported.

Media Server Deduplication (MSDP) is supported in an Infrastructure as a Service (IaaS) environment on any cloud platform that meets minimum requirements. For additional details on minimum and recommended configurations see NetBackup Media Server Deduplication (MSDP) in the Cloud https://www.veritas.com/support/en_US/article.000004584.

OS	CPU Architecture	Media Server Dedupe	Minimum NetBackup Level
SUSE Enterprise Linux Server 12	x86-64	Yes	8.0

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Descriptions of Disk Storage Unit Types for Media Server

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NetBackup permits the creation of an unlimited number of disk storage units. The types of storage units are described in the table below.

Disk Storage Unit Types

BasicDisk

A BasicDisk type storage unit consists of a directory on a locally-attached disk or a network-attached disk that is exposed as a file system to a NetBackup media server. NetBackup stores backup data in the specified directory.

BasicDisk - Considerations

Subject	Notes
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Configuration considerations	<ol style="list-style-type: none">1. Do not include the same volume or file system in multiple BasicDisk storage units.2. BasicDisk storage units cannot be used in a storage lifecycle policy.
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AdvancedDisk

An AdvancedDisk type storage unit is used for a dedicated disk that is directly attached to a NetBackup media server. AdvancedDisk is available only when the Data Protection Optimization Option is licensed. NetBackup assumes exclusive ownership of the disk resources that comprise an AdvancedDisk disk pool. If the resources are shared with other users, NetBackup cannot manage disk pool capacity or storage lifecycle policies correctly. For AdvancedDisk, the NetBackup media servers function as both data movers and storage servers. For more information on configuring AdvancedDisk, see the "[NetBackup AdvancedDisk Storage Solutions Guide](#)".

AdvancedDisk - Considerations

Subject	Notes
Support assumptions	<ol style="list-style-type: none">1. Veritas NetBackup has an open support policy for AdvancedDisk storage units. The storage must be seen as local disk by the NetBackup Media Server, regardless of connection method (SCSI, Fibre Channel, iSCSI, etc), to be supported as an AdvancedDisk storage unit. Please note: Due to the open support policy, and the range of 3rd party storage solutions, it is the responsibility of the customer to ensure that the chosen storage solution meets the specific performance needs in the specific production environment. Veritas NetBackup features that are performance-dependent, such as Granular Restore Technology (GRT) are not supported with AdvancedDisk storage units. Hybrid storage solutions, with a mix of both local (LAN or FC) and WAN (remote or cloud) based storage tiers, have become available. Thorough testing of these storage solutions, when used as AdvancedDisk storage units, needs to be completed by the customer, to the customer's satisfaction, particularly in the area of restore operations, to ensure that timeouts do not

occur. Some specific hybrid storage solutions have been tested as NetBackup AdvancedDisk storage units, in Veritas labs, with joint effort and in cooperation with Veritas storage partners.

Resulting white papers and reference materials will appear here:

- Microsoft Azure StorSimple: "[Configure StorSimple with Veritas NetBackup](#)"

All-flash storage solutions are included in the AdvancedDisk open support policy. Some specific all-flash storage solutions have been tested as NetBackup AdvancedDisk storage units, in Veritas labs, with joint effort and in cooperation with Veritas storage partners. Examples are:

- Pure Storage FlashBlade
- Violin Systems Flash Storage Platform

2. Veritas InfoScale Foundation and Storage Foundation are supported with NetBackup AdvancedDisk. For information on disk arrays that are supported with the InfoScale Foundation or Storage Foundation version you're running, please see "[Veritas Services and Operations Readiness Tools \(SORT\)](#)".

3. AdvancedDisk functionality is subject to all functional limitations as imposed either by the operating system or by the underlying file system.

Configuration considerations

1. For UNIX NetBackup Media Servers, AdvancedDisk requires that all LSUs (Logical Storage Units) are active mount points within the UNIX host. Using the NFS automount feature is not recommended with AdvancedDisk.

2. Access to NFS storage requires NetBackup daemons to run as root. The NFS server exporting the file system must be configured to allow root access to the file system.

3. To ensure support, the disk array must be combined with interconnect hardware that is supported by the disk array manufacturer and the operating system vendor. Refer to the respective vendor's support lists for this information.

4. When installing and configuring HBA drivers it is recommended that the array vendor-qualified HBA drivers be

used as opposed to the general HBA drivers that are released for each operating system. These array vendor-qualified HBA drivers are typically found in a separate section of the HBA vendor or array vendor's website, often separated by array model.

5. Performance may vary depending on the array hardware used.

OpenStorage

An OpenStorage type storage unit is used for disk storage, usually provided by a third party vendor. The actual name of the disk type depends on the vendor. OpenStorage is available only when the OpenStorage Disk Option is licensed. The storage is integrated into NetBackup through an API. The storage vendor partners with Veritas to integrate the storage into NetBackup. The storage host is the storage server. The NetBackup media servers function as the data movers. The storage vendor's plug-in must be installed on each media server that functions as a data mover. The logon credentials to the storage server must be configured on each media server. For more information on configuring OpenStorage, see the ["NetBackup OpenStorage Solutions Guide for Disk"](#).

PureDisk

A PureDisk disk type storage unit is used for deduplicated data for the following storage destinations:

Media Server Deduplication Pool (MSDP):

NetBackup deduplicates the data and hosts the storage. MSDP is available only when the NetBackup Data Protection Optimization Option is licensed. For more information on configuring MSDP, see the ["NetBackup Deduplication Guide"](#).

PureDisk storage pool:

A NetBackup 5000 Series Appliance hosts the storage. For more information on configuring a PureDisk storage pool, see the ["Configuring a storage server for a PureDisk Deduplication Pool"](#).

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Cloud Configuration Files for Media Server

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The latest version of this file is included in NetBackup release updates and is also available for download independently on the Veritas support site. This file is updated whenever new cloud provider support is needed, independent of NetBackup release updates. This file is cumulative, so the most recent version contains all support added in earlier versions. The column "NetBackup version" indicates the NetBackup Master Server version that the Cloud Configuration package requires for installation.

For more information on configuring Cloud solutions see "[About the cloud storage vendors for Veritas NetBackup](#)".

Cloud Configuration File Packages

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.8.2	Media Server: 8.0 or later	Media Server: https://www.veritas.com/content/support/en_US/downloads/update.UPD971796.html	Added support: <ul style="list-style-type: none"> - IBM (S3) - AP Australia region - IBM (S3) - AP Tokyo region - Corrected entry for XSKY Enterprise Object Storage (S3) - Corrected region name: IBM (S3) - AP United Kingdom - Removed decomissioned region: IBM (S3) - AUS Melbourne Added earlier support not included in NetBackup 9.0 release: <ul style="list-style-type: none"> - Google (S3) - US-West3 (Salt Lake City) region - Google (S3) - US-West4 (Las Vegas) region
2.8.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<ul style="list-style-type: none"> - Dell EMC Isilon PowerScale (S3) - XSKY Enterprise Object Storage (S3)

Veritas Services and Operations Readiness Tools (SORT)

			<p>Added earlier support not included in NetBackup 9.0 release:</p> <ul style="list-style-type: none"> - Tencent Cloud - Cloud Object Storage (COS) (S3)
2.7.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Tencent Cloud - Cloud Object Storage (COS) (S3)
2.7.2	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Google (S3) - US-West3 (Salt Lake City) region - Google (S3) - US-West4 (Las Vegas) region
2.7.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added earlier support not included in NetBackup 8.3 release:</p> <ul style="list-style-type: none"> - Amazon (S3) - Africa (Cape Town) region - Amazon (S3) - Asia Pacific (Hong Kong) region - Amazon (S3) - Europe (Milan) region - Amazon (S3) - Europe (Stockholm) region - Amazon (S3) - Middle East (Bahrain) region - Google (S3) - Asia-East 2 region - Google (S3) - Asia-Northeast 2 region - Google (S3) - Asia-South1 region - Google (S3) - EU-North1 region

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			<ul style="list-style-type: none"> - Google (S3) - EU-West4 region - Google (S3) - EU-West 6 region - Google (S3) - NorthAmerica-Northeast1 region - Google (S3) - SouthAmerica-East1 region - Google (S3) - US-West2 region - Hitachi Vantara Cloud Scale (S3) - Nutanix Buckets (S3) - Orange Business Systems Flexible Engine OBS (S3) - SandStone MOS (S3) - SwiftStack Object Storage (S3) buffer size changes
2.6.4	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Amazon (S3) - Africa (Cape Town) region - Amazon (S3) - Europe (Milan) region - Amazon (S3) - Europe (Stockholm) region - Hitachi Vantara CloudScale (S3) buffer size changes
2.6.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Hitachi Vantara CloudScale (S3)
2.6.2	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Amazon (S3) - Asia Pacific (Hong Kong) region

Veritas Services and Operations Readiness Tools (SORT)

			<ul style="list-style-type: none"> - Amazon (S3) - Middle East (Bahrain) region - Google (S3) - Asia-East 2 region - Google (S3) - Asia-Northeast 2 region - Google (S3) - EU-West 6 region - Orange Business Systems Flexible Engine OBS (S3) - SandStone MOS (S3) - SwiftStack Object Storage (S3) buffer size changes
2.6.1	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Google (S3) - Asia-South1 region - Google (S3) - EU-North1 region - Google (S3) - EU-West4 region - Google (S3) - NorthAmerica-Northeast1 region - Google (S3) - SouthAmerica-East1 region - Google (S3) - US-West2 region <p>Adding earlier support not included in NetBackup 8.2 release:</p> <ul style="list-style-type: none"> - Nutanix Buckets (S3)
2.5.5	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<p>Added support:</p> <ul style="list-style-type: none"> - Alibaba Cloud Object Storage Service (OSS) (S3) - Corrected service host endpoint

Veritas Services and Operations Readiness Tools (SORT)

2.5.4	Media Server: 8.0 or later	Media Server: Use the most recent version above.	<ul style="list-style-type: none"> - Nutanix Buckets (S3) Added support: <ul style="list-style-type: none"> - Amazon GovCloud - Glacier Deep Archive (S3) - Amazon Glacier (S3) - Changed from Amazon zero-day lifecycle configuration to direct upload - Amazon Glacier Deep Archive (S3) - Changed from Amazon zero-day lifecycle configuration to direct upload - Amazon GovCloud - Glacier (S3) - Changed from Amazon zero-day lifecycle configuration to direct upload
2.5.3	Media Server: 8.0 or later	Media Server: Use the most recent version above.	Added support: <ul style="list-style-type: none"> - Amazon Glacier Deep Archive (S3)
2.5.2 / RPM 1.0.6	NetBackup Appliance: 3.1 or later Media Server: 8.0 or later	NetBackup Appliance: https://www.veritas.com/docs/100039718 Media Server: Use the most recent version above.	Added support: <ul style="list-style-type: none"> - Microsoft Azure Germany (Azure)
2.5.1 / RPM 1.0.5	NetBackup Appliance: 3.1 or later Media Server: 8.0 or later	Use the most recent version above.	Added support: <ul style="list-style-type: none"> - Amazon OneZone IA (S3) - Amazon (S3) - Europe (Paris) region - IronMountain IronCloud certificate change Adding earlier support not included in NetBackup 8.1.2 release:

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			<ul style="list-style-type: none"> - Amazon (S3) - China (Ningxia) region - Kingsoft Standard Storage Service (KS3) - Standard (S3) - Kingsoft Standard Storage Service (KS3) - Standard IA (S3) - Veritas Cognitive Object Storage (S3)
2.4.5 / RPM 1.0.4	<p>NetBackup Appliance: 3.1 or later</p> <p>Media Server: 8.0 or later</p>	Use the most recent version above.	<ul style="list-style-type: none"> - Kingsoft Standard Storage Service (KS3) - Standard IA (S3) - corrected header
2.4.4 / RPM 1.0.3	<p>NetBackup Appliance: 3.1 or later</p> <p>Media Server: 8.0 or later</p>	Use the most recent version above.	<ul style="list-style-type: none"> - Amazon (S3) - China (Ningxia) region - Kingsoft Standard Storage Service (KS3) - Standard (S3) - Kingsoft Standard Storage Service (KS3) - Standard IA (S3) - Veritas Cognitive Object Storage (S3)
2.4.3 / RPM 1.0.2	<p>NetBackup Appliance: 3.1 or later</p> <p>Media Server: 8.0 or later</p>	Use the most recent version above.	<ul style="list-style-type: none"> - Huawei OceanStor 9000 (S3) - IBM Cloud Object Storage (S3) - Object size improvement - Telefonica Open Cloud (S3)
2.4.2	<p>NetBackup Appliance: 3.1 or later</p> <p>Media Server: 8.0 or later</p>	Use the most recent version above.	<ul style="list-style-type: none"> - Alibaba Cloud Object Storage Service (OSS) (S3) - added public default cloud instance - Alibaba Cloud Object Storage Service (OSS) (S3) - Asia Pacific NE 1 (Tokyo) region - Alibaba Cloud Object Storage Service (OSS) (S3) - Asia Pacific SE 1 (Singapore) region

- Alibaba Cloud Object Storage Service (OSS) (S3) - Asia Pacific SE 2 (Sydney) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - Asia Pacific SE 3 (Kuala Lumpur) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - Asia Pacific SE 5 (Jakarta) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - Asia Pacific SOU 1 (Mumbai) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - China East 1 (Hangzhou) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - China East 2 (Shanghai) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - China North 1 (Qingdao) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - China North 2 (Beijing) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - China North 3 (Xhangjiakou) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - China North 5 (Hohhot) region
- Alibaba Cloud Object Storage Service (OSS) (S3) - China South 1 (Shenzhen) region

			<ul style="list-style-type: none"> - Alibaba Cloud Object Storage Service (OSS) (S3) - Germany 1 (Frankfurt) region - Alibaba Cloud Object Storage Service (OSS) (S3) - Hong Kong region - Alibaba Cloud Object Storage Service (OSS) (S3) - Middle East 1 (Dubai) region - Alibaba Cloud Object Storage Service (OSS) (S3) - US East 1 (Virginia) region - Alibaba Cloud Object Storage Service (OSS) (S3) - US West 1 (Silicon Valley) region - Huawei FusionStorage (S3) - IBM Cloud Object Storage (S3) - Asia Pacific Cross Region - IBM Cloud Object Storage (S3) - EU Great Britain region - IBM Cloud Object Storage (S3) - Melbourne, Australia single datacenter endpoint - IBM Cloud Object Storage (S3) - Toronto, Canada single datacenter endpoint - Infoniq SWISS3CLOUD (S3) - NEC HYDRAsstor/iStorage/ NEC Storage (S3) - NEC IaaS (S3)
2.4.1 / RPM 1.0.1	NetBackup Appliance: 3.1 or later Media Server: 8.0 or later	Use the most recent version above.	- Updated for NetBackup 8.1.1 and 3.1.1

			<ul style="list-style-type: none"> - Added CloudCatalyst Appliance support for many cloud providers
2.3.3	8.0 or later	Use the most recent version above.	<ul style="list-style-type: none"> - Deutsche Telekom Open Telekom Cloud(S3) - Changed default URL style - IBM Cloud Object Storage (S3) - Cold storage class - IBM Cloud Object Storage (S3) - Flex storage class - IBM Cloud Object Storage (S3) - Standard storage class - IBM Cloud Object Storage (S3) - Vault storage class - IBM Cloud Object Storage (S3) - Vault storage class - IBM Cloud Object Storage (S3) - EU Cross Region - IBM Cloud Object Storage (S3) - US Cross Region - IBM Cloud Object Storage (S3) - US East Region - IBM Cloud Object Storage (S3) - EU South Region - Iron Mountain Iron Cloud (S3) - NetApp StorageGRID (S3) - LAN - NetApp StorageGRID (S3) - Changed default URL style for WAN - NooBaa (S3) - Oracle Cloud Infrastructure (S3)

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2.3.2	8.0 or later	Use the most recent version above.	<ul style="list-style-type: none"> - Amazon Glacier (S3) (requires NetBackup 8.1 or later) - Amazon GovCloud - Glacier (S3) (requires NetBackup 8.1 or later)
2.3.1	8.0 or later	Use the most recent version above.	<ul style="list-style-type: none"> - CMCC Cloud Storage authentication v5.x (requires NetBackup 8.1 or later) - Fujitsu Cloud Service K5 (requires NetBackup 8.1 or later) - Microsoft Azure Government Cloud (requires NetBackup 8.1 or later) - Amazon (S3) - Object size improvement - NetApp StorageGRID WAN (S3) - IBM COS WAN (S3) - enables custom cloud instances for VPC URL support - IBM COS WAN (S3) - US South region - IBM COS WAN (S3) - US East region - IBM COS WAN (S3) - EU Cross-region
2.2.9	8.0	Use the most recent version above.	<ul style="list-style-type: none"> - ACP IT Solutions CS3 Cloud (S3) - Amazon (S3) - Changed "Standard" region to "US East (N. Virginia)" - China Telecom OOS Cloud (S3)

Veritas Services and Operations Readiness Tools (SORT)

			<ul style="list-style-type: none"> - Google (S3) - Australia-Southeast1 region - Google (S3) - Europe-West2 region - Google (S3) - Europe-West3 region - Google (S3) - US-East4 region - Google Coldline & Nearline (S3) - added regions
2.2.8	8.0	Use the most recent version above.	<ul style="list-style-type: none"> - Fujitsu Storage ETERNUS CD10000 (S3) - Huawei Object Storage Service (OBS) (S3) - SUSE Enterprise Storage (S3)
2.2.7	8.0	Use the most recent version above.	<ul style="list-style-type: none"> - Deutsche Telekom Open Telekom Cloud (S3) - Google Cloud Storage - Regional (S3) - Google Cloud Storage - Multi-Regional (S3) - Hitachi Cloud Services (S3) - Changed to "Hitachi Content Platform - WAN" - Red Hat Ceph Storage (S3) - Veritas Access (S3) - Verizon Cloud (S3) - Removed support
2.2.6	8.0	Use the most recent version above.	<ul style="list-style-type: none"> - Amazon (S3) - Canada Central region - Amazon (S3) - London region - Amazon (S3) - Ohio region - IBM Cloud Object Storage (S3) - Local and WAN performance improvement

Veritas Services and Operations Readiness Tools (SORT)

2.2.5	8.0	Use the most recent version above.	<ul style="list-style-type: none"> - Amazon Virtual Private Cloud (VPC) and Amazon custom cloud instance (S3) - Amazon (S3) - Mumbai region - AT&T Cloud Storage (S3) - IBM Cloud Object Storage - Local and WAN (S3)
2.2.4	8.0	Use the most recent version above.	<ul style="list-style-type: none"> - Amazon GovCloud (S3) - Infrequent Access - China Mobile CMCC Cloud Storage (S3) - Chunghwa Telecom Hicloud (S3) - default Cloud Instance - EMC Elastic Cloud Storage (S3) - Google Cloud Storage (S3) - Coldline Storage Class - Oracle Cloud Service (Swift) - IBM Softlayer (Swift) - Microsoft Azure (Azure) - Oracle Cloud Service (S3) - Quantum Lattus Object Storage (S3) - Scality RING Storage for LAN (S3) - Scality RING Storage for WAN (S3) - SwiftStack (Swift)

Cloud Configuration File Versions released with NetBackup and NetBackup Appliances

NetBackup / NetBackup Appliance version	Cloud Configuration File version
8.1.2 / 3.1.2	2.5.0
8.1.1 / 3.1.1	2.4.0

8.1 GA / 3.1	2.3.0
8.0 GA / 3.0	2.2.0

Cloud Configuration File Versions included in NetBackup Appliance cloud configuration and device mappings RPMs

NetBackup Appliance RPM version	Cloud Configuration File version
1.0.6	2.5.2
1.0.5	2.5.1
1.0.4	2.4.5
1.0.3	2.4.4
1.0.2	2.4.3
1.0.1	2.4.1

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

OST Secondary Storage Solutions - General Information for Media Server

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This feature is not supported on this platform.

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

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Cloud Storage Solutions for Media Server

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NetBackup Cloud Storage plug-ins enable Veritas NetBackup to access Cloud Storage Solutions. Either the storage vendor or Veritas provides a software plug-in, which is installed on each NetBackup Media Server that is connected to the cloud solution.

NetBackup Cloud support information is listed in the tables below, organized by vendor. These tables provide information on supported versions of plug-ins and functionality, and other important notes about the hardware and its compatibility.

Cloud Storage - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" .</p> <ol style="list-style-type: none">1. In the vendor compatibility tables below, the column "NetBackup Version Containing Plug-in" indicates the NetBackup 8.x version at which that cloud storage solution was first supported.2. Cloud support on Windows platforms requires Windows 2008 R2 or later.3. (existing) Where support for Ceph storage is shown, it means that vendor's Ceph solution is supported. Other Ceph-based solutions are not supported.3. Community-distributed Ceph solutions are supported when using the Red Hat string. Since these solutions rely on the community, support for any issues encountered may be delayed or unavailable, depending on the nature of the issue.
Configuration considerations	<ol style="list-style-type: none">1. NetBackup is configured to trust a number of well-known public Certificate Authorities (CA) related to Cloud storage. However, there are instances where, for internal purposes, you may need to add your own self-signed CA certificate. For information on adding a self-signed CA certificate, please refer to "Cloud Storage Configuration: How To Add a Self-Signed CA Certificate" .2. NetBackup-provided Cloud connectors are not supported with IPv6, unless noted otherwise. Configuring these plug-ins with IPv6 may result in unpredictable behavior.

Cloud Storage - Supported Cloud Technology Methods

NetBackup supports Cloud-based storage providers using a variety of technology methods, described below.

Contents (for details click on the checkbox)

S3 Storage	Swift Storage	Microsoft Azure Storage
Atmos Cloud Storage	Rackspace Cloud Storage	OST
Advanced Disk Targets	VTL	

Cloud Storage - Vendor Compatibility

Contents (for details click on the checkbox)

ACP	Alibaba	Amazon
AT&T	China Mobile	China Telecom
Chunghwa Telecom	Cloudian	Datish Systems (OpenDedup)
Dell EMC	Deutsche Telekom	Fujitsu
Google	Hitachi Vantara	Huawei
IBM	Infoniq	Iron Mountain
Kingsoft	Microsoft	NEC
NetApp	NooBaa	Nutanix
Oracle	Orange Business Services	Quantum
Rackspace	Red Hat	SandStone
Scality	StorReduce	SUSE
SwiftStack	Telefonica	Veritas

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

OpenStorage Servers are intelligent storage devices that interface to NetBackup Media Servers via the Veritas OpenStorage (OST) API. The vendor supplying the Storage Server appliance provides a software plug-in, which is installed on each NetBackup Media Server that is attached to the OpenStorage Server.

OST Storage Servers support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances, with Linux/Windows operating systems, and with UNIX operating systems. The tables provide information on supported versions of plug-ins and functionality, and other important notes about the hardware and its compatibility. OST functionality is available on all supported NetBackup Media Server platforms. If you do not see OST support for your desired Storage Server appliance / Media Server OS platform, please contact that Storage Server appliance vendor to request OST support for that platform. Please see the Veritas NetBackup Administrator's Guide for more information on how to use OST.

OST Storage Servers - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" .</p> <ol style="list-style-type: none">1. All OpenStorage Servers are compatible with the NetBackup Data Protection Optimization Option features (Storage Lifecycle Policies, Intelligent Disk Capacity Management and Media Server Load Balancing) and the SAN Client (currently supported only with Solaris SPARC and Linux x64 media servers).2. Where support is shown for NetBackup 5200 Series or 5300 Series Appliances it means that the OST solution is supported on appliances running versions 2.7.1 or later, unless noted otherwise.3. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.4. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows

	<p>Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported.</p> <p>5. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported.</p> <p>6. CentOS and Oracle Linux are not supported with OpenStorage, unless noted otherwise.</p>
Vendor support considerations	<ol style="list-style-type: none">1. Veritas and OpenStorage server vendors have mutually agreed to support NetBackup customers with OST solutions. Veritas and most OST server vendors are members of TSANet.2. Veritas qualifies OpenStorage plug-ins for use with NetBackup. The qualified plug-ins are maintained by the party that writes and distributes the plug-ins. Features Veritas Partners implement behind the OST API, that operate independently and are transparent to NetBackup and the OpenStorage API (for example, replication between storage servers, deduplication on the storage server, deduplication-aware plug-ins, data transport mechanisms between the media server and the storage server), are not specifically qualified by Veritas. Partner-specific features designed to interoperate in the NetBackup environment as part of the total solution are the maintenance responsibility of the partner. Check the partner's compatibility list to ensure support of the feature with NetBackup and to ensure that your infrastructure (that is, hardware and network) meets the partner's recommended sizing considerations for the feature.3. Check the device manufacturer's compatibility list to verify the minimum version of Storage Server software required for your Storage Server family member, that the Storage Server software version you are running is compatible with the plug-in version, and that the storage server software version supports the OpenStorage functionality you are running.4. Minor versions of the plug-ins listed in the tables below are also supported. (Example: Version "2.0" means versions 2.0.1,

Configuration considerations	<p>2.0.2, etc. are also supported. Version "3" means versions 3.1, 3.2, etc. are also supported.)</p> <ol style="list-style-type: none">1. The Data Interface column in the tables below describes the supported data path between the media server running the vendor's OST plug-in and the OST storage server.2. The Veritas NetBackup OpenStorage Optimized Duplication feature takes advantage of the replication capabilities built into many storage servers and cloud solutions by allowing images replicated by the storage servers or cloud solutions to be registered as duplicated copies in the NetBackup catalog. This feature requires at least one NetBackup Media Server with connectivity to both the source storage server or cloud solution and the destination storage server or cloud solution. Optimized Duplication cannot be performed across NetBackup domains.3. A Logical Storage Unit (LSU) must be configured to only one NetBackup domain. Media servers from more than one NetBackup domain configured to the same LSU is not supported.
Operational considerations	<ol style="list-style-type: none">1. Storage Servers that do not automatically increase the size of LSUs may take advantage of the LSU spanning feature. For information about spanning volumes on OpenStorage disk pools, see the Veritas NetBackup OpenStorage Solutions Guide for Disk.2. The NetBackup Accelerator, Accelerator with NDMP, and Accelerator with VMware-type policies features are not supported with spanned LSUs.
Operating system support dropped	<ol style="list-style-type: none">1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later.

For information on migrating HP-UX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#) .

5. IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating AIX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#) .

6. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.

7. Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.

8. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.

9. Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.

10. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.

11. SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.

12. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.

OST Storage Servers - Supported Functionality

The following table lists NetBackup OpenStorage functionality and indicates the NetBackup 8.x version at which that functionality was first supported. For detailed descriptions of OpenStorage functionality, see the ["NetBackup OpenStorage Solutions Guide for Disk"](#).

To see which OST functionality is supported with your OpenStorage solution, refer to the "Supported OpenStorage Functionality" column in the Vendor Compatibility tables below.

OpenStorage Functionality	Abbreviation	NetBackup Start of Support	Notes
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Veritas Services and Operations Readiness Tools (SORT)

Accelerator (for files and folders)	Accelerator	8.0 GA	<p>If your storage server shows support for Accelerator in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled.</p> <p>If you are running Accelerator-enabled backups of Windows clients whose file systems contain hard linked files, running NetBackup 7.5.0.7 or later on the client is strongly recommended.</p> <p>For more information, see "Accelerator enabled backups of Windows hard linked files to OpenStorage disk storage may cause bptm to crash" .</p> <p>Accelerator is not supported with spanned Logical Storage Units (LSU).</p>
Accelerator with NDMP	Accel_NDMP	8.0 GA	<p>Supported with Dell EMC Isilon Scale-Out filers, and NetApp AFF, FAS, and V series filers.</p> <p>For more information on this feature, see the "About NetBackup Accelerator for NDMP" .</p> <p>Accelerator with NDMP is not supported with spanned LSUs.</p>
Accelerator with Hyper-V-type policies	Accel_Hyper-V	8.0 GA	<p>If your storage server shows support for Accelerator with Hyper-V in the tables below,</p>

Veritas Services and Operations Readiness Tools (SORT)

			<p>Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled.</p> <p>Accelerator with Hyper-V-type policies is not supported with spanned LSUs.</p> <p>Accelerator with Hyper-V-type policies is not supported with shared virtual disks and VHD sets.</p> <p>Accelerator with Hyper-V-type policies support requires Hyper-V Server 2016 or later.</p> <p>For more information on this feature, see the "Veritas NetBackup for Hyper-V Administrator's Guide".</p>
Accelerator with VMware-type policies	Accel_VMware	8.0 GA	<p>If your storage server shows support for Accelerator with VMware in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled.</p> <p>Accelerator with VMware-type policies is not supported with spanned LSUs.</p> <p>For more information on this feature, see the "Veritas NetBackup for VMware Administrator's Guide".</p>
Auto Image Replication	A.I.R.	8.0 GA	<p>For more information on configuring Auto Image</p>

Replication, see "[About the storage lifecycle policies required for Auto Image Replication](#)".

Veritas recommends replicating images from NetBackup 8.0 or later storage servers to target storage servers running the same NetBackup version. Replicating images between NetBackup 8.0 or later storage servers and NetBackup 7.x storage servers is supported, however, due to differences in encryption and fingerprinting methods, the additional processing required may cause performance issues and causes the replicated image data to be unencrypted while in transit. In configurations running both A.I.R. and Targeted A.I.R., Veritas recommends setting the Storage Lifecycle Policies parameter "Auto create A.I.R. import SLP" to "No" and creating non-Targeted A.I.R. import policies only where desired.

Only one media server should be configured to each target Logical Storage Unit (LSU).

Each source and target storage server should have

			its credentials configured in only one NetBackup domain.
Targeted Auto Image Replication	Targeted_A.I.R.	8.0 GA	<p>If your storage server shows support for Targeted A.I.R. in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled.</p> <p>Veritas recommends replicating images from NetBackup 8.0 or later storage servers to target storage servers running the same NetBackup version. Replicating images between NetBackup 8.0 or later storage servers and NetBackup 7.x storage servers is supported, however, due to differences in encryption and fingerprinting methods, the additional processing required may cause performance issues and causes the replicated image data to be unencrypted while in transit.</p> <p>In configurations running both A.I.R. and Targeted A.I.R., Veritas recommends setting the Storage Lifecycle Policies parameter "Auto create A.I.R. import SLP" to "No" and creating non-Targeted A.I.R. import policies only where desired.</p>

Veritas Services and Operations Readiness Tools (SORT)

			<p>Only one media server should be configured to each target Logical Storage Unit (LSU).</p> <p>Each source and target storage server should have its credentials configured in only one NetBackup domain.</p> <p>When support for Targeted A.I.R. is shown in the tables below, all replication topologies are supported, unless noted otherwise.</p>
Direct Copy to dedicated tape drives	Direct_Copy	8.0 GA	
Direct Copy to shared tape drives	Direct_Copy_Shared	8.0 GA	
Granular Recovery Technology	Granular_Recovery	8.0 GA	<p>Support for the Veritas NetBackup OpenStorage Granular Recovery Technology feature is described in "Granular Restore Technology (GRT) support for NetBackup with PureDisk (PDDO/PDDE)" and "Granular Restore Technology (GRT) support for NetBackup with 3rd-party OpenStorage Secondary Storage Solutions" .</p>
Granular Recovery Technology with VMware-type policies	GRT_VMware	8.0 GA	<p>Support for VMware-type backup policies with Application Protection options enabled for Exchange or SharePoint. Support for the Veritas</p>

Veritas Services and Operations Readiness Tools (SORT)

			NetBackup OpenStorage Granular Recovery Technology feature is described in "Granular Restore Technology (GRT) support for NetBackup with PureDisk (PDDO/PDDE)" and "Granular Restore Technology (GRT) support for NetBackup with 3rd-party OpenStorage Secondary Storage Solutions" .
Instant Recovery for VMware	IR_VMware	8.0 GA	Support for restoring virtual machines with Instant Recovery is described in the "Veritas NetBackup for VMware Administrator's Guide" . For details on supported platforms for instant recovery restore hosts, see "Support for NetBackup 7.7.x, 8.x, and 9.x in virtual environments" .
NetBackup Encryption Key Management Service	KMS	8.0 GA	In the OST Cloud vendor tables, KMS indicates that the cloud provider supports using NetBackup KMS to encrypt backups to cloud targets. In the OST Storage Servers vendor tables, KMS indicates that the plug-in supports NetBackup KMS with Direct Copy to Tape functionality.
Optimized Duplication	Opt_Dup	8.0 GA	Optimized Duplication transfers data in 256 KB chunks.

Veritas Services and Operations Readiness Tools (SORT)

Optimized Duplication (Whole Image Copy)	WI_Opt_Dup	8.0 GA	Whole image Optimized Duplication uses the storage unit's Maximum fragment size to transfer an entire NetBackup image fragment in a single operation.
Optimized Synthetics	Opt_Synth	8.0 GA	Storage Lifecycle Policies are not supported in policies that use the multiple copy synthetic backups method. For details, see " Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method ".

OST Storage Servers - Links to Vendor Sites

More information on NetBackup OpenStorage solutions is available at the following OST Storage Server vendors' websites.

Vendor	URL
Cleversafe	http://www.cleversafe.com/
Data Domain	http://www.datadomain.com/products/
Dell EMC	http://www.dell.com/
ExaGrid	http://www.exagrid.com/exagrid-products/supported-data-backup-applications/symantec-netbackup/
FalconStor	http://www.falconstor.com/en/pages/?pn=VTL
Fujitsu	http://www.fujitsu.com/global/
Hewlett Packard Enterprise	https://www.hpe.com/us/en/storage/storeonce.html
Hitachi	http://www.hds.com/
Huawei	http://www.huawei.com/
H3C	http://www.h3c.com/en/OurBusiness/Products/Storage/
IBM	http://www.ibm.com/

Infinidat	http://www.infinidat.com/
NEC	http://www.necam.com/HYDRAsstor/
NetApp	http://www.netapp.com/us/products/protection-software/altavault/
Oracle	http://www.oracle.com/technetwork/server-storage/sun-unified-storage/downloads/zfssa-plugins-1489830.html
Quantum	http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/OSTClientPlugIn/Index.aspx
Quest	https://www.quest.com/products/dr-series-disk-backup-appliances/
Sepaton	http://www.sepaton.com/
Veritas	https://www.veritas.com/product/backup-and-recovery/netbackup-appliances/

OST Storage Servers - Vendor Compatibility

Contents (for details click on the checkbox)

Dell EMC Data Domain	FalconStor	Fujitsu
H3C	Hewlett Packard Enterprise	Hitachi Vantara
Infinidat	NEC	Oracle
Quantum	SEPATON	Veritas

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Virtual Tape Libraries Compatibility List for Media Server

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Virtual tape device support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances, with Linux/Windows operating systems, and with UNIX operating systems. The tables

provide information on supported versions of software, inquiry string (vendor ID + product ID), and other important notes about the hardware and its compatibility.

Virtual Tape Libraries/Drives - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" .</p> <ol style="list-style-type: none">1. Virtual tape device software versions are no longer listed in this section. Veritas recommends using the most recent version of software available when you configure the VTL with NetBackup. When a minimum VTL software version is required, it will be listed in a footnote. If a VTL software version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSAnet.2. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.3. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported.4. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported.5. Where support is shown for "Red Hat Enterprise Linux 5 on x86-64" it also means that CentOS 5 and Oracle Linux 5 are supported.

	<p>6. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported.</p> <p>7. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported.</p>
Vendor support considerations	<ol style="list-style-type: none">1. Check the device manufacturer's compatibility list to verify OS platform support for the version of software running on your VTL.2. Check the device manufacturer's compatibility list to verify the minimum version of VTL software required for your VTL family member.3. The list of attributes for each drive emulation is based on the most recent version of Virtual tape device software tested. Check with the device manufacturer to determine when support for a specific attribute was added.
Configuration considerations	<ol style="list-style-type: none">1. The virtual library must be configured with the unique VTL inquiry string as listed. Using the inquiry string to emulate a real library model is not supported even if the real device is supported with NetBackup. AIX media servers being used for robotic control may use one of the alternate emulated strings listed below.2. Only the virtual tape drive emulations listed with each virtual library are supported. Other virtual tape drive emulations are not supported even if the real device being emulated is supported with NetBackup. Conversely, a virtual tape drive emulation listed as supported in this section does not mean the physical model is also supported.3. Veritas recommends the use of SCSI Persistent Reserve (SPR) whenever all the hardware in your device path supports it. Refer to the NetBackup Administrator's Guide for more information on SPR and the types of configurations where SPR may be more effective than the default SPC-2 SCSI reserve and release method.

	<p>4. NetBackup NDMP Direct Copy with VTL enables NDMP tape duplication to physical tape libraries. For more information on this feature, see "About NDMP DirectCopy" .</p>
OS library and tape driver considerations	<ol style="list-style-type: none">1. Refer to the Tape Drives section of this document for information on supported tape drivers.2. On IBM AIX, use of the IBM Atape driver is required with IBM tape libraries. The Atape driver's multi-path feature must be disabled.
Operational considerations	<ol style="list-style-type: none">1. Filling up the available disk space on a virtual device may cause unpredictable behavior of the device. Working with the device vendor may be required to recover from errors that result from a full disk.2. NetBackup NDMP Direct Copy with VTL Copying virtual media to physical media or a 2nd virtual media is not supported by Veritas; any support for this must come from the VTL vendor providing the capability. If the VTL copies virtual media to physical media (or a 2nd VTL), NetBackup is not aware of the physical media or 2nd virtual media and may not be able to recover that data directly from it.3. When NetBackup expires a virtual volume, the virtual device is not aware that the data is no longer needed. Because of this, the virtual device may appear to be much closer to capacity than it really is. When NetBackup subsequently begins writing to that virtual volume at the beginning of the volume, the virtual library will then be aware that the rest of the data is no longer needed and can free up the disk space.
Operating system support dropped	<ol style="list-style-type: none">1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later.

For information on migrating HP-UX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#) .

5. IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating AIX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#) .

6. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.

7. Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.

8. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.

9. Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.

10. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.

11. SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.

12. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.

Virtual Tape Libraries/Drives - Tape Drive Emulation Attributes

The following table lists attributes supported with Virtual Tape Libraries and indicates the NetBackup 8.x version at which that attribute was first supported.

Attribute	Abbreviation	NetBackup 8.x Start of Support
NDMP Direct Copy with VTL, physical tape drives used with this feature must be dedicated to the VTL.	DirCpy_Ded	8.0 GA
NDMP Direct Copy with VTL, physical tape drives used with this feature can be	DirCpy_Shr	8.0 GA

shared using NetBackup Shared Storage Option (SSO).		
SCSI Reservation	SResv	8.0 GA
SCSI Persistent Reservation	SPR	8.0 GA
Write Once, Read Many	WORM	8.0 GA
NetBackup Encryption Key Management Service	KMS	8.0 GA
Append-only mode	Append	8.0 GA

Virtual Tape Libraries/Drives - NetBackup Robot Types

Most Virtual Tape Libraries use the NetBackup robot type TLD. The following table lists operating system platform support for TLD robots. For supported OS versions, refer to the ["NetBackup 8.0 - 8.x.x Operating System Software Compatibility List"](#).

A few Virtual Tape Libraries use NetBackup robot type ACS. For information on ACS robotics support, see [ACS - Oracle Automated Cartridge System](#) in the Tape Libraries section.

For more information about configuring robot types, see the ["NetBackup Device Configuration Guide"](#).

TLD - Tape Library DLT

Operating System	NetBackup 8.x Start of Support
NDMP	8.0 GA
SUSE Linux Enterprise Server on x86-64	8.0 GA

Virtual Tape Libraries/Drives - Vendor Compatibility

Contents (for details click on the checkbox)

Dell EMC	Dell EMC Data Domain	FalconStor
Fujitsu	H3C	Hewlett Packard Enterprise
Hitachi Vantara	Huawei	IBM
Infinidat	NEC	Quantum
SEPATON	Spectra Logic	

NetBackup Hardware Compatibility Documentation:

NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List (last updated on May 22, 2023)

NetBackup Hardware Compatibility Documentation: Introduction

NetBackup Hardware Compatibility Documentation: Device Mappings Files

NDMP Devices Compatibility List for Media Server

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NDMP device support information is listed below, organized by vendor. The tables provide information on the versions of software tested, supported connection methods and functionality, and other important notes about the hardware and its compatibility.

For information about Operating Systems supported with NDMP, see the NDMP column in the NetBackup Server section for each OS platform in the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](#)".

For NetBackup for NDMP vendor-specific configuration information, refer to "[NetBackup for NDMP: NAS appliance information](#)".

Minor ("double-dot") or patch versions of the software listed in the tables below are also supported. (Example: "v5.0" means versions v5.0.1, v5.0.2, etc. are also supported.)

Direct Access Restore (DAR) and Directory Direct Access Restore (DDAR) are supported, unless noted otherwise.

NetBackup Appliances and NetBackup Virtual Appliances are supported with the NDMP solutions listed in the tables below. For more information on supported appliance versions, see the "Supported Functionality" subsection under "[NetBackup Appliances](#)".

IPv6 support is shown in the tables below. IPv6 support requires NetBackup 8.1.1 or later.

64-bit inode numbers are supported.

Wildcard characters can be used in regular expressions or the directive ALL_FILESYSTEMS to specify path names in NDMP policy backup selections. For more information on the use of wildcard characters, see the "[Wildcard characters in backup selections for an NDMP policy](#)".

NDMP Devices - Connection Methods

The following table describes the supported NDMP connection methods.

Connection Method	Description
Direct-attach	Data travels from disk to a tape device on the same NDMP host, or from disk to tape device on a SAN. Backup data is NOT sent over local network. NOTE: The tape drives must be in NDMP-type storage units.
Remote	Data travels from the NDMP host, across the local network to a NetBackup media server, to a storage unit connected to the NetBackup media server.
3-way	Data travels from disk on an NDMP host to a tape device on another NDMP host. Backup data is sent over the local network. NOTE: The tape drives must be in NDMP-type storage units.

NDMP Devices - Vendor Compatibility

Contents (for details click on the checkbox)

Dell EMC	Dell EMC Data Domain	Dell EMC Isilon
Hewlett Packard Enterprise	Hitachi Vantara	Huawei
IBM	Imation	Mirapoint
NEC	NetApp	Nexenta
Oracle	Stratus Technologies	

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Tape Libraries Compatibility List for Media Server

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Tape library support information is listed below. This information is organized by vendor and provides information on the inquiry string (vendor ID + product ID), the method(s) of controlling the robot, and any other important notes about the hardware and its compatibility.

Tape Libraries - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" .</p> <ol style="list-style-type: none"> 1. The tables in this section show robotic support only, not tape drive support. Refer to the Tape Drives section of this document to ensure that the specific drive used in the library is supported on the desired OS platform(s). The library vendor must also support the library and drive combination. 2. Firmware versions are not listed in this section. Veritas recommends using the most recent version of firmware available when you configure the library with NetBackup. When a minimum firmware version is required, it will be listed in the Notes column. If a firmware version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSANet. 3. ACS robots are supported with NetBackup Enterprise Server only. ACS robots are not supported with NetBackup Server. 4. For ACS robots the "Inquiry String" column is intentionally left blank. 5. Where support is shown for "Red Hat Enterprise Linux" it also means that CentOS and Oracle Linux are supported.
Configuration considerations	<ol style="list-style-type: none"> 1. Library partitioning is supported unless noted otherwise. 2. Library expansion modules are supported unless noted otherwise. 3. On IBM AIX, use of the IBM Atape driver is required with IBM tape libraries. The Atape driver's multi-path feature must be disabled.
Operating system support dropped	<p>1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.</p>

2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.
3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.
4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating HP-UX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#).
5. IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating AIX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#).
6. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.
7. Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.
8. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.
9. Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.
10. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.
11. SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.
12. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.

Tape Libraries - NetBackup Robot Types

These tables list operating system platform support for each NetBackup robotic daemon type. For more information about configuring robot types, see the ["NetBackup Device Configuration Guide"](#).

Contents (for details click on the checkbox)

ACS - Oracle Automated Cartridge System - Supported Operating Systems
ACS - Oracle Automated Cartridge System - Supported Drive Types
ACS - Oracle Automated Cartridge System - Supported Media Types
TLD - Tape Library DLT - Supported Operating Systems

Tape Libraries - Legend

The following table describes terms and symbols used in the Tape Libraries - Vendor Compatibility tables.

Tape Libraries - Legend

Value	Meaning
Multi LUN	The device is a Multi-LUN based library.
SCSI ID	The device is a SCSI ID based library.
^	Character used to denote a space in the INQUIRY STRING.

Tape Libraries - Vendor Compatibility

Contents (for details click on the checkbox)

Dell EMC	Fujitsu	H3C
Hewlett Packard Enterprise	Hitachi Vantara	IBM
NEC	Oracle	Overland Storage
Qualstar	Quantum	Spectra Logic
Tandberg		

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

[NetBackup Hardware Compatibility Documentation: Device Mappings Files](#)

Tape drive support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances, with Linux/Windows operating systems and with UNIX operating systems. These tables provide information on the operating system versions supported by the drive, inquiry string (vendor ID + product ID), and other important notes about the hardware and its compatibility.

Tape Drives - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" .</p> <ol style="list-style-type: none">1. To ensure support, a device (both drive and library where applicable) must be supported by Veritas, the device manufacturer, and the operating system vendor.2. Firmware versions are not listed in this section. Veritas recommends using the most recent version of firmware available when you configure the drive with NetBackup. When a minimum firmware version is required, it will be listed in the footnotes. If a firmware version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSANet.3. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.4. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported.5. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported.

	<p>6. Where support is shown for "Red Hat Enterprise Linux 5 on x86-64" it also means that CentOS 5 and Oracle Linux 5 are supported.</p> <p>7. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported.</p> <p>8. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported.</p> <p>9. The "ULTRIUM-TD" and the "ULT3580-TD" inquiry strings are interchangeable (both are supported), unless noted otherwise. The "ULTRIUM-HH" and the "ULT3580-HH" inquiry strings are interchangeable (both are supported), unless noted otherwise.</p> <p>10. Backup Exec Tape Reader is not supported in NetBackup 8.0 and later releases.</p>
Vendor support considerations	<p>1. The list of attributes for each tape drive is based on the most recent drive testing. Check with the device manufacturer to determine the firmware version at which support for a specific attribute was added.</p>
Configuration considerations	<p>1. Veritas recommends the use of SCSI Persistent Reserve (SPR) whenever all the hardware in your device path supports it. Refer to the NetBackup Administrator's Guide for more information on SPR and the types of configurations where SPR may be more effective than the default SPC-2 SCSI reserve and release method.</p> <p>2. Only tape drives listed in the tables below are supported. Other tape drive models are not supported even if the Virtual Tape Library section shows an emulated version of the drive is supported with NetBackup.</p> <p>3. For Solaris 10, Veritas recommends running Update 6 (137137-09 for SPARC, 137138-09 for x64) or later.</p>
OS tape driver considerations	<p>1. Except where noted, Veritas recommends the use of the operating system's native tape drivers.</p>

Operational considerations

1. Tape Alert functionality is supported by all drives, unless noted otherwise.
2. NetBackup supports LTO-7 Type M media, also known as M8 cartridges (LTO-7 cartridges formatted to a new LTO-8 standard, increasing their native capacity), in the following manner:
 - M8 cartridges are supported with LTO-8 tape drives.
 - M8 cartridges pre-formatted by the media vendor are supported.
 - LTO-7 cartridges with an M8 barcode formatted as M8 using hardware vendors' software tools or tape library firmware features (automatic or manual) are supported.
 - NetBackup does not have the ability to convert LTO-7 cartridges with an M8 barcode to M8 format.
 - For more information on M8 media (for example, formatting methods, supported barcodes, other technical information), please consult the vendor's documentation.

Operating system support dropped

- 1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.**
- 2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.**
- 3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.**
- 4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later.** For information on migrating HP-UX master and media servers to other platforms, see the "[NetBackup Master Server Migration Guide](#)" and the "[NetBackup Media Server Migration Guide](#)".
- 5. IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later.** For information on migrating AIX master and media servers to other platforms, see the "[NetBackup Master Server Migration Guide](#)" and the "[NetBackup Media Server Migration Guide](#)".
- 6. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.**

- 7. Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.
- 8. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.
- 9. Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.
- 10. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.
- 11. SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.
- 12. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.

Tape Drives - Attributes

The following table lists attributes supported with Tape Drives and indicates the NetBackup 8.x version at which that attribute was first supported.

Attribute	Abbreviation	NetBackup Release Supported
SCSI Reservation	SResv	8.0 GA
SCSI Persistent Reservation	SPR	8.0 GA
Write Once, Read Many	WORM	8.0 GA
NetBackup Encryption Key Management Service	KMS	8.0 GA
Append-only mode	Append	8.0 GA

Tape Drives - Vendor Compatibility

Contents (for details click on the checkbox)

Dell EMC	Hewlett Packard Enterprise	IBM
Oracle	Quantum	Tandberg

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Fibre Transport Media Server HBAs Compatibility List for Media Server

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This section lists Fibre Channel host bus adapters (HBAs) that have been tested and are supported with the NetBackup Fibre Transport (FT) feature in a Fibre Transport Media Server. This information is organized by vendor and provides information on what operating systems have been tested with each Fibre Channel HBA model. The NetBackup Fibre Transport feature requires loading the FT HBA with firmware contained on the NetBackup distribution media, so only the HBAs listed below will work with this feature.

Fibre Transport Media Server - Considerations

Subject	Notes
Support assumptions	<ol style="list-style-type: none">1. A NetBackup SAN Client supports any HBA and is used in conjunction with a NetBackup Fibre Transport Media Server. The HBA support model for NetBackup SAN Client is an "OPEN" model. All host bus adapters (HBA), switches, bridges, and routers are supported in a SAN environment. This means that if a Fibre Channel component is causing a problem, Veritas will work with the component vendor in an attempt to resolve the problem, but resolution is not guaranteed. Veritas and most hardware vendors listed are members of TSANet.2. SAN Client is not supported over Fibre Channel over Ethernet (FCoE) using converged network adapters (CNA).
Vendor support considerations	<ol style="list-style-type: none">1. The SAN Client feature is compatible with the Sun SPARC Enterprise M-Series server architecture, but with limited functionality with regard to Fibre Transport Media Server deployment:<ul style="list-style-type: none">- Support is limited to a maximum of one target mode Fibre Channel HBA in an M-Series server.

	<p>- Quad-port target mode Fibre Channel HBAs are not supported in an M-Series server.</p>
Configuration considerations	<p>1. For SAN Client implementations with NetBackup Appliance and SLES 10 clients using QLogic FC HBAs (or rebadged QLogic FC HBAs), Veritas recommends upgrading the HBA driver on the client to version 8.03.07.03.10.3-k or later.</p>
Operating system support dropped	<p>1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.</p> <p>2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.</p> <p>3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</p> <p>4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating HP-UX master and media servers to other platforms, see the "NetBackup Master Server Migration Guide" and the "NetBackup Media Server Migration Guide".</p> <p>5. IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating AIX master and media servers to other platforms, see the "NetBackup Master Server Migration Guide" and the "NetBackup Media Server Migration Guide".</p> <p>6. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.</p> <p>7. Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.</p> <p>8. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.</p> <p>9. Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.</p> <p>10. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.</p> <p>11. SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.</p>

12. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.

Fibre Transport Media Server - Supported Platforms

Linux FT Media Servers are supported on the platforms listed in the following table along with the NetBackup 8.x release at which the platform was first supported. Other RHEL and SLES versions are not supported as an FT Media Server.

Operating System	Supported Versions	Minimum NetBackup 8.x Release Supported	Notes
SUSE Linux Enterprise Server 12 on x86-64	GA	8.0 GA	
SUSE Linux Enterprise Server 12 on x86-64	SP1	8.1 GA	

Fibre Transport Media Server - Vendor Compatibility

Contents (for details click on the checkbox)

Dell EMC	Hewlett Packard Enterprise	Hitachi Vantara
IBM	Marvell QLogic	Oracle

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[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

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Encryption and Security Solutions for Media Server

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Encryption and security solution support information is listed below, organized by solution type.

The following listings do not include specific operating system compatibility. For a list of supported NetBackup Media Server platforms, refer to the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](#)".

NOTE: The Media Server Encryption Option (MSEO) section has been removed from this document since this feature is no longer supported.

NetBackup Key Management Service (KMS)

The NetBackup Key Management Service (KMS) feature is intended to support any tape drive with built-in hardware encryption capability that conforms to the SCSI T10 encryption standard. Each drive model listed in the following table has been tested in Veritas labs to verify that it works with NetBackup correctly, so Veritas recommends using only listed drives with the KMS feature. Refer to the [Tape Drives](#) section in this document for the list of platforms and interfaces on which each of the following drives is supported.

Note: KMS is supported on any tape library supported by NetBackup, provided the library vendor supports that library with any of the encryption-capable drives listed in the table below.

NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
Dell EMC	PowerVault LTO4-120	
Dell EMC	PowerVault LTO5-140	
Dell EMC	PowerVault LTO-6	
Dell EMC	PowerVault LTO-6 HH	
Dell EMC	PowerVault LTO-7	
Dell EMC	PowerVault LTO-7 HH	
Hewlett Packard Enterprise	Ultrium 1760 LTO4	
Hewlett Packard Enterprise	Ultrium 1840 LTO4	
Hewlett Packard Enterprise	Ultrium 3000 LTO5	
Hewlett Packard Enterprise	Ultrium 3280 LTO5	
Hewlett Packard Enterprise	Ultrium 6250 LTO6	
Hewlett Packard Enterprise	Ultrium 6650 LTO6	
Hewlett Packard Enterprise	Ultrium 15000 LTO7	
Hewlett Packard Enterprise	Ultrium 15750 LTO7	
Hewlett Packard Enterprise	Ultrium 30750 LTO8	
IBM	System Storage TS1040 Ultrium 4	Requires firmware version 7BG2 or later.

Veritas Services and Operations Readiness Tools (SORT)

IBM	System Storage TS1050 Ultrium 5	
IBM	System Storage TS1060 Ultrium 6	
IBM	System Storage TS1070 Ultrium 7	
IBM	System Storage TS1120 (3592 Model E05)	Requires firmware version 1C15 or later.
IBM	System Storage TS1130 (3592 Model E06)	Requires firmware version 2480 or later.
IBM	System Storage TS1140 (3592 Model E07)	
IBM	System Storage TS1150 (3592 Model E08)	
IBM	System Storage TS1155 (3592 Model 55F)	
IBM	System Storage TS2240 Ultrium 4 Half Height	
IBM	System Storage TS2250 Ultrium 5 Half Height	
IBM	System Storage TS2260 Ultrium 6 Half Height	
IBM	System Storage TS2270 Ultrium 7 Half Height	
IBM	System Storage TS2280 Ultrium 8 Half Height	
IBM	System Storage TS2340 Ultrium 4	Requires firmware version 7BG2 or later.
IBM	System Storage TS2350 Ultrium 5	
IBM	System Storage TS2360 Ultrium 6	
IBM	System Storage TS2370 Ultrium 7	
IBM	System Storage TS2380 Ultrium 8	
IBM	Ultrium 4 (OEM)	Requires firmware version 7BG2 or later.
IBM	Ultrium 4 Half Height (OEM)	
IBM	Ultrium 5 (OEM)	
IBM	Ultrium 5 Half Height (OEM)	

IBM	Ultrium 6 (OEM)	
IBM	Ultrium 6 Half Height (OEM)	
IBM	Ultrium 7 (OEM)	
IBM	Ultrium 7 Half Height (OEM)	
IBM	Ultrium 8 (OEM)	
IBM	Ultrium 8 Half Height (OEM)	
Oracle StorageTek	T10000B	Requires firmware version 1.41.211 or later.
Oracle StorageTek	T10000C	Requires firmware version 1.53.311 or later. The drive needs manual setup including obtaining the data path key management (DPKM) encryption license from Oracle.
Oracle StorageTek	T10000D	
Quantum	LTO-4 HH	Requires firmware version 2190 or later.
Quantum	LTO-5 FH	
Quantum	LTO-5 HH	
Quantum	LTO-6 HH	
Quantum	LTO-7 HH	
Quantum	LTO-8 HH	
Tandberg	HH LTO 5	

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

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Support information for vendor-supplied encryption solutions is listed below, organized by vendor. Under each vendor there is a table showing tested solutions, firmware versions tested with that solution, and other important notes about the solution and its compatibility.

The firmware listed in these tables is the firmware that has been tested. Firmware versions newer than those listed are also supported.

Support for specific storage devices such as tape drives, libraries, and virtual devices is not listed in this section. NetBackup will support any hardware that is supported both by the encryption provider and Veritas. Please refer to the other sections of this document for Veritas' support of these storage devices.

Please Note:

The firmware listed on this page is the firmware that has been tested. All firmware versions newer than what is listed are also supported.

Third-Party Encryption Solutions - Vendor Compatibility

Contents (for details click on the checkbox)

Brocade	Cisco Systems	Decru
Fujitsu	Hewlett Packard Enterprise	IBM
NEC	Quantum	SafeNet
Sun StorageTek	Thales (NeoScale)	

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[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

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SAN Media Server/SAN Client/FT Media Server for Media Server and Client

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- Unless otherwise noted the minimum NetBackup level for SAN Client support is NetBackup 6.5 GA.

SAN style backups via SAN Media Server

SAN media servers are NetBackup media servers that back up their own data. SAN media servers cannot back up data that resides on other clients. SAN media servers are useful for certain situations. For example, a SAN media server is useful if the data volume consumes so much network bandwidth that it affects your network negatively.

- Enables LAN-free data protection with high performance access to shared resources.
- Can share tape resources with NetBackup Master and Media Servers.
- Can only back itself up, not other clients.
- Software is installed stand-alone on each cluster node and linked to the virtual host via an application cluster.
- When you define a backup policy for a SAN media server, add only the SAN media server as the client.
- The NetBackup Shared Storage Option is able to use NetBackup SAN media servers.
- There is no platform restriction regarding SAN Media Servers - any Media Server can be a SAN Media Server. The only difference is in the license authentication mechanism. Application and DB Agents are supported with the SAN Media Server.

SAN style backups via SAN Client

A NetBackup SAN client is a NetBackup client on which the Fibre Transport service is activated. The SAN client is similar to the SAN media server that is used for the Shared Storage Option; it backs up its own data. However, the SAN client is based on the smaller NetBackup client installation package, so it has fewer administration requirements and uses fewer system resources.

- It connects to a NetBackup media server over Fibre Channel.
- The NetBackup SAN Client Fibre Transport Service manages the connectivity and the data transfers for the FT pipe on the SAN clients. The SAN client FT service also discovers FT target mode devices on the NetBackup media servers and notifies the FT Service Manager about them.
- Requires SAN connectivity with a Media Server running Fibre Transport Services (reference additional information below in regards to the FT Media Server).

SAN client does not support the following types of backup:

- SharePoint
- Enterprise Vault
- Exchange DAG or CCR backups through a passive node of an Exchange cluster
- All other application and database agents are supported with the SAN Client.

Note: SAN client does support the use of FlashBackup but all restores from FlashBackup backups will use the LAN connection, not the SAN connection.

SAN client and NetBackup Deduplication

- SAN Client is a NetBackup optional feature that provides high speed backups and restores of NetBackup clients. Fibre Transport is the name of the NetBackup high-speed data transport method that is part of the SAN Client feature. The backup and restore traffic occurs over a SAN.
- SAN clients can be used with the deduplication option; however, the deduplication must occur on the media server, not the client. Configure the media server to be both a deduplication storage server (or load balancing server) and an FT media server. The SAN client backups are then sent over the SAN to the deduplication server/FT media server host. At that media server, the backup stream is deduplicated.
- Do not enable client deduplication on SAN Clients. The data processing for deduplication is incompatible with the high-speed transport method of Fibre Transport. Client-side deduplication relies on two-way communication over the LAN with the media server. A SAN client streams the data to the FT media server at a high rate over the SAN.

FT Media Server

A NetBackup FT media server is a NetBackup media server on which the Fibre Transport services are activated. NetBackup FT media servers accept connections from SAN clients and send data to the storage units. The host bus adapters (HBAs) that accept connections from the SAN clients use a special NetBackup target mode driver to process FT traffic. The media server FT service controls data flow, processes SCSI commands, and manages data buffers for the server side of the FT pipe. It also manages the target mode driver for the host bus adaptors.

Reference the HCL document Fibre Transport Media Server HBAs section for supported Operating Systems and HBAs. https://www.veritas.com/content/support/en_US/article.100040093

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Infrastructure Used for Testing for Media Server

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The NetBackup Shared Storage Option (SSO) hardware support model for Storage Area Network (SAN) components is an open model. In other words, all Fibre Channel over Ethernet (FCoE) converged network adapters (CNA), Fibre Channel (FC) host bus adapters (HBA), switches, bridges, and routers are supported in a SAN environment. This means that if a FCoE or FC component

is causing a problem, Veritas will work with the component vendor in an attempt to resolve the problem, but resolution is not guaranteed. Veritas and most hardware vendors listed are members of TSANet.

Infrastructure - Considerations

Subject	Notes
Vendor support considerations	1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components.

CNAs

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

CNAs - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" . 1. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server. 2. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. 3. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported.

	<p>4. Where support is shown for "Red Hat Enterprise Linux 5 on x86-64" it also means that CentOS 5 and Oracle Linux 5 are supported.</p> <p>5. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported.</p> <p>6. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported.</p>
Vendor support considerations	<p>1. Consult the hardware vendor's web site for current firmware and driver updates (where applicable).</p>
Configuration considerations	<p>1. All like CNAs within a SAN should use the same firmware, BIOS and driver revision as recommended by CNA vendors.</p>
Operating system support dropped	<p>1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.</p> <p>2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.</p> <p>3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.</p> <p>4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating HP-UX master and media servers to other platforms, see the "NetBackup Master Server Migration Guide" and the "NetBackup Media Server Migration Guide".</p> <p>5. IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating AIX master and media servers to other platforms, see the "NetBackup Master Server Migration Guide" and the "NetBackup Media Server Migration Guide".</p> <p>6. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.</p> <p>7. Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.</p>

- 8. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.**
- 9. Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.**
- 10. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.**
- 11. SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.**
- 12. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.**

HBAs

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

HBAs - Considerations

Subject	Notes
Support assumptions	<p>For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" .</p> <ol style="list-style-type: none">1. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server.2. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported.3. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported.

	<p>4. Where support is shown for "Red Hat Enterprise Linux 5 on x86-64" it also means that CentOS 5 and Oracle Linux 5 are supported.</p> <p>5. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported.</p> <p>6. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported.</p>
Vendor support considerations	<ol style="list-style-type: none">1. All like HBAs within a SAN should use the same firmware, BIOS and driver revision as recommended by HBA vendors.2. Consult the hardware vendor's web site for current firmware and driver updates (where applicable).
Operating system support dropped	<ol style="list-style-type: none">1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating HP-UX master and media servers to other platforms, see the "NetBackup Master Server Migration Guide" and the "NetBackup Media Server Migration Guide".5. IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later. For information on migrating AIX master and media servers to other platforms, see the "NetBackup Master Server Migration Guide" and the "NetBackup Media Server Migration Guide".6. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.7. Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.

- 8. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.
- 9. Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.
- 10. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.
- 11. SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.
- 12. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.

Infrastructure - HBAs Used In Testing

Contents (for details click on the checkbox)

ATTO

Broadcom Emulex

Brocade

Hewlett Packard Enterprise

Marvell QLogic

Bridges/Routers

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

Infrastructure - Considerations

Subject	Notes
Vendor support considerations	1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components. 2. Consult the hardware vendor's web site for current firmware.

Infrastructure - Routers/Bridges Used In Testing

Contents (for details click on the checkbox)

Bridges/Routers

Switches

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

Infrastructure - Considerations

Subject	Notes
Vendor support considerations	<ol style="list-style-type: none">1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components.2. Consult the hardware vendor's web site for current firmware.

Infrastructure - Switches Used In Testing

Contents (for details click on the checkbox)

Switches

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Devices Retiring Soon for Media Server

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The devices in this section will not be listed in the Hardware Compatibility List for the next major NetBackup release after NetBackup 8.0 - 8.x.x. Many of these devices are end-of-life products that are no longer supported by the manufacturer.

Virtual Tape Libraries

Manufacturer	Device
Dell EMC	CDL300 Series
Fujitsu	ETERNUS CS800 S2, ETERNUS CS800 S3
Hewlett Packard Enterprise	D2D4000 Series Backup System, D2D4100 G2 Series Backup System, D2D4100 Series Backup System, D2D4112fc Backup

	System, D2D4300 G2 Series Backup System, D2D4312 G2 Backup System, VLS 12000 EVA Gateway, VLS 12200 EVA Gateway, VLS 9200 Series
SEPATON	S2100

Tape Libraries

Manufacturer	Device
Dell EMC	PowerVault 160T, PowerVault ML6000 Series, PowerVault TL2000, PowerVault TL4000
Fujitsu	ETERNUS LT120, ETERNUS LT130, ETERNUS LT160, ETERNUS LT20, ETERNUS LT210 (T16A), ETERNUS LT210 (T16A2), ETERNUS LT220 (T16A), ETERNUS LT220 (T16A2), ETERNUS LT230 (T40A), ETERNUS LT230 (T40A2), ETERNUS LT250, ETERNUS LT270, ETERNUS LT40, ETERNUS LT60, FibreCAT TX08, FibreCAT TX24, FibreCAT TX48, FibreCAT TX48 S2
Hewlett Packard Enterprise	1/8 G2 Tape Autoloader, EML E-Series, EML E-Series 103e, EML E-Series 245e, EML E-Series 348e, EML E-Series 375e, EML E-Series 442e, EML E-Series 469e, EML E-Series 505e, EML E-Series 71e, ESL E-Series, ESL E-Series 322e, ESL E-Series 712e, MSL2024, MSL4048, MSL8048, MSL8096
Hitachi Vantara	L18/500
IBM	33614LX, 33622LX, 3607 1x16, StorageSmart SL7, StorageSmart SL72, StorageSmart SL7500, System Storage TS3200 (Machine Type 3573), System Storage TS3310 (Machine Type 3576)
NEC	iStorage T180, iStorage T40, iStorage T700, iStorage T80, LL0101H, SL0101H, T100A, T100A2, T16A, T16A2, T40A, T40A2, T700A, T700A2
Oracle	StorageTek SL24, StorageTek SL48, StorageTek SL500, Sun STK SL3000

Veritas Services and Operations Readiness Tools (SORT)

Overland Storage	ARCvault series, NEO 100s 2nd Generation, NEO 2000e, NEO 200s, NEO 200s 2nd Generation, NEO 4000e, NEO 400s, NEO 400s 2nd Generation, NEO 8000, NEO series
Qualstar	RLS-6000 (S)DLT series, RLS-8000 LTO series, RLS-8000D LTO series, RLS-85120, TLS-6000 DLT series, TLS-6220, TLS-8000 LTO series, XLS-8000
Quantum	PX720, Scalar 50 (SCALAR50), Scalar i2000, Scalar i500, SuperLoader 3
Spectra Logic	Spectra T120
Tandberg	StorageLibrary T24, StorageLibrary T40, StorageLibrary T48, StorageLoader 2U LTO, SuperLoader DLT 1280L, SuperLoader SDLT 3520L, SuperLoader SDLT 5120L

Tape Drives

Manufacturer	Device
Dell EMC	PowerVault 110T LTO2 (Gen2 IBM), PowerVault 110T SDLT320, PowerVault 110T VS160, PowerVault 160T LTO2
Hewlett Packard Enterprise	Ultrium 1760 LTO4, Ultrium 1840 LTO4, Ultrium 920 LTO3, Ultrium 960 LTO3
IBM	System Storage TS1030 (3588 Model F3B) Ultrium 3, System Storage TS2230 Ultrium 3 Half Height, System Storage TS2340 Ultrium 4, TotalStorage 3580 Ultrium 3, Ultrium 3, Ultrium 3 Half Height, Ultrium 4 (U160)
Quantum	DLT-S4, LTO-3, LTO-3 HH, SDLT 320, SDLT 600
Tandberg	HH LTO 3, SDLT 320

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Software Compatibility List (SCL) for Client

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NetBackup is supported on all editions (Advanced, Base, DC, etc.) and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless stated otherwise in the tables below.

IBM POWER 8/9 platform is supported only with Little Endian hardware architecture.

SUSE SUSE Linux Enterprise Server - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
SUSE Linux Enterprise Server 12	x86-64	64	Y ^[1]	64	Y	Y	8.0

Footnotes

1. Support for BTRFS filesystem with sub-volumes and snapshots starts from NetBackup 8.1.2, Supported with known Issue: <http://www.veritas.com/docs/000106399>

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

[Operating Systems Compatibility List General Information](#)

System Requirements for Client

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NetBackup Binary Size

Approximate binary size of the NetBackup client software for an initial install.

OS - All Versions	CPU Architecture	32-bit client	64-bit client	Notes
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SUSE Linux Enterprise Server	x86-64		1117MB	
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Temporary Disk Space Requirement for Install or Upgrade

After downloading the software, temporary disk space is required for the installation process on almost all platforms. For local installs or remote (push) installs using the rsh or ssh method, you may designate where this temporary space is located via use of environment variables, NB_TMPDIR or TMPDIR on the client. NB_TMPDIR is used if set, TMPDIR next if set, otherwise /tmp. For ftp or sftp remote installs, the client software is moved to /tmp on the client and during the install environment variables NB_TMPDIR or TMPDIR are used as mentioned previously. For details, consult the Installation Guide.

For local installs, you will need approximately 505 MBs of temporary disk space during the install.

For remote installs, you will need approximately 1286 MBs for placement of the client software and, then, for the install.

If using Live Update, you will need 4.5 GBs of temporary disk space. The location of the temporary disk space is designated in the 'workdir' setting in the /usr/opensv/netbackup/nblu.conf file with /tmp being the default.

Valid Characters in Host Names Requirement

NetBackup requires host names to comply with [RFC-1123](#), meaning only ASCII characters "a" thru "z", case insensitive, and digits "0" thru "9" and the hyphen character.

NetBackup Documentation References:

[NetBackup Release Notes](#)

[NetBackup Self Service Release Notes](#)

Bare Metal Restore File System/Volume Manager Support for Client

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Listed in the table below are the available File Systems and Logical Volume Managers compatible with Bare Metal Restore 8.0 through 8.0.x. Support is conditional according to the published notes corresponding to the individual OS platforms.

The table below contains scenarios that have been thoroughly tested with NetBackup. Due to the number of combinations, it is not possible to test all combinations for compatibility. If a particular scenario is not listed, it may work fine, but has not been explicitly tested by Veritas.

OS	File Systems	Volume Managers	Striping, Mirroring, RAID	Notes
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Veritas Services and Operations Readiness Tools (SORT)

SUSE Linux Enterprise Server 12 (x64)	EXT2, EXT3, Reiserfs, XFS, BTRFS	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	<ol style="list-style-type: none">1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly. Recovery of Persistent Devices are not supported2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover.3. Supports recovery of non-root filesystems via Linux Native Multi-pathing.4. BTRFS file system is not supported with sub-volumes and snapshots.
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Acronyms

LDM - Logical Disk Manager

LVM - Logical Volume Manager

SFW - Storage Foundation for Windows

SRT - Shared Resource Tool
SVM - Solaris Volume Manager
VxFS - Veritas File System
VxVM - Veritas Volume Manager

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Client Selections for Backup Policies for Client

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The information in the Client Selection column of the table below is the client type that should be selected when installing NetBackup as a client on the Operating System/Version and Architecture listed in this table.

Where support is shown for "Windows Server 2008" or "Windows Server 2008 R2" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012" or "Windows Server 2012 R2" it is implied that Standard Edition, Datacenter Edition, Essentials Edition, and Foundation Edition are supported.

NetBackup 8.1.2 and later will require Linux Kernel version 2.6.32 or higher

OS	CPU Architecture	NetBackup 8.0 Client Selection
SUSE Linux Enterprise Server 12	x86-64	Linux,SuSE2.6.16

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Deduplication Supported Operating Systems for Client

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If you are looking for information regarding PureDisk support, and not media server deduplication, reference article <http://www.veritas.com/docs/000008731>

For further details on recommended hardware reference NetBackup Deduplication: Additional Usage Information: <http://www.veritas.com/docs/000041111>

Where support is shown for "Windows Server 2008" or "Windows Server 2008 R2" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012", or "Windows Server 2012 R2" it is implied that Foundation Edition, Essentials Edition, Standard Edition, and Datacenter Edition are supported.

Media Server Deduplication (MSDP) is supported in an Infrastructure as a Service (IaaS) environment on any cloud platform that meets minimum requirements. For additional details on minimum and recommended configurations see NetBackup Media Server Deduplication (MSDP) in the Cloud https://www.veritas.com/support/en_US/article.000004584.

OS	CPU Architecture	Client Deduplication	Minimum NetBackup Level
SUSE Enterprise Linux Server 12	x86-64	Yes	8.0

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Database and Application Agent Compatibility for Client

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This Software Compatibility List (SCL) document describes the supported database and application agents for Veritas NetBackup 8.0 through 8.x

For all other NetBackup compatibility lists, refer to <http://www.veritas.com/docs/000033647>

IPV6 and Dual Stack environments are supported from NetBackup 8.1.1 onwards with few limitations, refer technote for additional information <http://www.veritas.com/docs/100041420>

Database and application patch support: Major versions of database software have been qualified in Veritas Labs and are listed in the tables below. NetBackup supports minor versions, service packs, and patches of database software unless otherwise noted, with the exception of Microsoft Exchange, Microsoft SharePoint and Microsoft SQL Server.

Linux support: For Linux distributions shown in the tables below, NetBackup is supported on all "editions" and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless otherwise noted in this document or in the NetBackup OS Compatibility List, <http://www.veritas.com/docs/100032808>

Database Appliances: 3rd party database hardware appliances are supported if the appliance OS/architecture and database software are listed in the Veritas NetBackup OS compatibility list <http://www.veritas.com/docs/100032808> and in the Database and Application Agent compatibility list (this document). For example, some Oracle Exadata and Exalogic models are supported based upon this support statement. Please consult the vendor documentation to identify the embedded software versions.

End of life information: More information is available about certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and OS platforms that Veritas intends to replace with newer and improved functionality, or in some cases, discontinue without replacement. Please see the SORT widget titled "NetBackup Future Platform and Feature Plans" at <https://sort.veritas.com/netbackup>.

Database Agents

The sections below contain information that is related to specific database agents and OS platforms.

SAP

The NetBackup SAP Agent protects SAP Oracle environments by integrating with SAP BR*Tools. SAP BR*Tools may have a separate version from the SAP Kernel. Reference Technical Solution 51094 for details <http://www.veritas.com/docs/000033132>. SAP environments based on Microsoft SQL or DB2 databases are supported via the NetBackup Microsoft SQL and DB2 agents respectively.

SAP supports Oracle and MAX-DB base environments.

Windows Server 2008

When using a 32-bit OS on a x64 CPU the DB Agent is supported if the x86 CPU is listed in this compatibility list.

Contents (for details click on the checkbox)

Apache Hadoop	Apache HBase	HCL Domino
IBM DB2	IBM Informix	MariaDB
MongoDB	MySQL	Oracle Database
PostgreSQL	SAP ASE	SAP HANA
SAP MaxDB	SAP Oracle	SQLite

NetBackup Database and Application Agent Documentation:

[NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List \(last updated on September 14, 2023\)](#)

[8.0 - 8.x.x Database and Application Agent Software Compatibility List Updates](#)

Snapshot Client - General Information for Client

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This section contains Snapshot Client compatibility information for Veritas NetBackup 8.x.x. It covers NetBackup Server (which includes Enterprise Server and Server), Client, and Snapshot Client.

Veritas supports standard unaltered kernel/Operating System levels. Should an issue arise on a revised kernel, Operating System, or virtual system environment, Veritas support may request the recreation of the problem with the standard operating environment distribution.

Veritas InfoScale / Storage Foundation Compatibility

Veritas InfoScale/Storage Foundation file system and volume manager are supported as the Snapshot Client stack based on Operating System requirements of the InfoScale/Storage Foundation product. For specific OS compatibility information regarding InfoScale/Storage Foundation, please see "[Veritas Services and Operations Readiness Tools \(SORT\)](#)".

FlashBackup policy limitation: The NetBackup FlashBackup policy is not supported on Veritas File System (VxFS) layout versions 8 and beyond, versions 7 and earlier are supported.

Third-Party Products

When a problem may be related to product(s) from a third-party vendor with whom Veritas has a cooperative or collaborative relationship on such product(s), then Veritas will work with that vendor in an attempt to resolve the problem, but resolution is not guaranteed. When Veritas does not have such a support relationship in place with the third-party vendor, or when the vendor ceases to support such product(s), then our ability to support Veritas Licensed Software operating with such vendor's product(s) may be limited, affected, or prevented (and such third party product(s) may cease to be part of Veritas-supported configuration(s)). Veritas support may be limited by the hardware or software vendor due to their support lifecycle. Should a vendor announce End of Support for a product, Veritas support may be limited.

Oracle Agent Support

Oracle ASM Environment is not supported.

Snapshot Client - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" . 1. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server. 2. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. 3. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported.
Operating system support dropped	1. CentOS 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.

- 3. CentOS 6 is not supported as a media server with NetBackup 9.0 and later.**
- 4. Hewlett Packard Enterprise HP-UX (all versions) is not supported as a media server with NetBackup 8.1.2 and later.** For information on migrating HP-UX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#) .
- 5. IBM AIX (all versions) is not supported as a media server with NetBackup 8.1.2 and later.** For information on migrating AIX master and media servers to other platforms, see the ["NetBackup Master Server Migration Guide"](#) and the ["NetBackup Media Server Migration Guide"](#) .
- 6. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later.**
- 7. Red Hat Enterprise Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.**
- 8. Red Hat Enterprise Linux 6 is not supported as a media server with NetBackup 9.0 and later.**
- 9. Oracle Linux 6 GA through Update 7 are not supported as a media server with NetBackup 8.1.2 and later.**
- 10. SUSE Linux Enterprise Server 11 is not supported as a media server with NetBackup 8.3 and later.**
- 11. SUSE Linux Enterprise Server 12 GA through SP2 is not supported as a media server with NetBackup 8.3 and later.**
- 12. Windows 2008 and 2008 R2 are not supported by Microsoft as of January 14, 2020.**

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Snapshot Client - Array-based Snapshot Methods for Client

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This feature is not supported on this platform.

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Snapshot Client - Software-based Snapshot Methods for Client

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SUSE Linux Enterprise Server 12

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
FlashSnap	Veritas Storage Foundation	File System	Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
vxvm	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM VxFS / VxVM

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

Encryption and Security Solutions for Client

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NetBackup Client Encryption is compatible with all disk storage units (DSU), tape drives, tape libraries, and virtual tape libraries supported by NetBackup.

Note: Any DSU type supported by NetBackup can be used with client encryption, although encryption prevents deduplication by Media Server Dedupe, OpenStorage devices, or VTLs.

NetBackup Client Encryption is supported on all NetBackup client platforms except OpenVMS, and is not supported with BMR or SAN client.

Symantec Security Information Manager

NetBackup Client is supported with Symantec Security Information Manager (SSIM) v4.8 and later.

For more information on SSIM, see https://support.symantec.com/en_US/dpl.52517.html

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

File System Compatibility for Client

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NetBackup supports backing up file data on all POSIX compliant file systems. The table below represents the platform configurations that have been tested for compatibility with ACLs and other extended attributes. Unless otherwise noted in the table below, ACLs and other extended attributes are not supported.

NetBackup has improved its integration with the Veritas File System (VxFS) product to ensure interoperability on all compatible VxFS versions. If you run a VxFS version that is older than VxFS 4.0 then you need to install new VxFS libraries on the client to back up the systems that run VxFS. You can search and download the appropriate VxFS libraries to your system from Patch Central on the Veritas Support Web site. See, <https://sort.veritas.com/patch/finder>

Note :

- For Linux Operating Systems, the backup and restore of extended attributes set by the chattr command on XFS, ZFS, BTRFS etc. is not supported
- Cross platform restore of extended attributes is not supported.

File System	ACL	Other Extended Attributes or Named Data Streams	Notes / Exceptions
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Ext2, Ext3, Ext4, ReiserFS, XFS, BTRFS, Lustre 2.12.5	Yes	Yes	Support for BTRFS filesystem with sub-volumes and snapshots starts from NetBackup 8.1.2 NetBackup Master Server installation on a BTRFS filesystem is not supported. Lustre Filesystem is not supported on SuSE Linux Enterprise Server Version 15 and above
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NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

NetBackup OpsCenter Web Browser Requirements

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Web Browser	Versions	Notes
Microsoft Internet Explorer	- 7.x, 8.x, 9.0, 10.0, 11.0 - 32-bit and 64-bit	- IE 7.0 and later versions may display a security certificate warning page when you access OpsCenter. Reference "Disabling security certificate warnings permanently from browsers" instructions in the NetBackup OpsCenter Administrator's Guide. - It may not be possible to view reports, jobs, or audit data when exporting from IE 9.0. Alternatively, IE 9.0 may show a "Internet Explorer Cannot Download" error

		<p>when exporting reports, jobs, or auditing data from OpsCenter.</p> <ul style="list-style-type: none"> - Reference "Exporting OpsCenter reports or data with IE 9.0" instructions in the NetBackup OpsCenter Administrator's Guide. - Extra steps are required to access the OpsCenter console using Internet Explorer version 7 or 8 on a 32-bit Windows computer. For more information, see "About web browser considerations" in the NetBackup OpsCenter Administrator's Guide. - NetBackup 7.7.2 and later support OpsCenter with IE 11 - The NetBackup OpsCenter Administrator's Guide and other Guides are available by selecting the appropriate NetBackup version link at http://www.veritas.com/docs/000003214
<p>Mozilla Firefox</p>	<ul style="list-style-type: none"> - 3.0, 3.5.x, 3.6.x, 9.0.1 and above for OpsCenter 7.0 to 7.5. - 15.0 and later versions for OpsCenter 7.6 and later. - 32-bit and 64-bit - 27.0 and later versions for OpsCenter 8.0 and later 	<ul style="list-style-type: none"> - Mozilla Firefox may display an Untrusted Connection page when you access OpsCenter. Reference "Disabling the Untrusted Connection page in Mozilla Firefox" instructions in the Veritas OpsCenter Administrator's Guide.

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

NetBackup OpsCenter Backup Product Support

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There are two OpsCenter products: Veritas NetBackup OpsCenter and Veritas NetBackup OpsCenter Analytics. OpsCenter does not require any license and is included with the NetBackup Enterprise Server and Server products. OpsCenter provides single deployment configuration and user interface for monitoring, alerting, and reporting functionality. It provides monitoring, management and administration capabilities for NetBackup as well as operational reporting for other products as designated in the following table.

OpsCenter Analytics is the licensed version of OpsCenter. In addition to the features available in the unlicensed OpsCenter version, Analytics offers report customization, chargeback reporting and support for third-party data protection products as designated in the following table. The primary objectives of this product are to help organizations assess their compliance with business standards, e.g., service level agreements, and assist in effective business planning, e.g., future backup requirements via backup trend analysis.

Listed in the table below are the backup and archiving products and versions supported by OpsCenter and OpsCenter Analytics.

Backup Product	Version	Support Level	Analytics License Required
Veritas NetBackup	7.7 and higher versions	All supported NetBackup platforms by Remote Agent. Native OpsCenter agent for Windows 2008 (SP2 and R2) and Solaris 10 and 11. BCS customer are entitled to receive support for the legacy products until 2019. Refer to https://www.veritas.com/support/en_US/business-critical-services/support-extensions-program.html	No
Veritas NetBackup Appliance	See NetBackup Hardware Compatibility List for Appliance support information. http://www.veritas.com/docs/000025228	Data collection happens automatically by NBSL	No

Veritas NetBackup PureDisk	6.2, 6.2.2, 6.5, 6.5.1, 6.5.1.2, 6.6, 6.6.0.1, 6.6.0.2, 6.6.0.3, 6.6.1, 6.6.1.2, 6.6.3a, 6.6.5	PureDisk supported platform (PDOS) by the OpsCenter integrated Agent. You do not need a separate Agent to collect data from PureDisk. You can use the inbuilt Agent of the OpsCenter Server for data collection. To create or configure the data collector, select the Agent that is installed as Integrated Agent.	No
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NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

NetBackup OpsCenter Operating System Requirements

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OpsCenter Analytics has the same Operating System requirements as OpsCenter.

Check the Operating Systems server table for the exact version of NetBackup in which OpsCenter server support started.

Veritas Cluster Server (VCS) support for OpsCenter 7.1 Server, OpsCenter 7.5 Server, OpsCenter 7.6 Server and OpsCenter 7.7.1 in cluster mode:

VCS versions 4.3, 5.0 MP3 and 5.1 on Solaris

VCS versions 4.2 RP2, 5.1 and 5.1 SP1 on Windows

Veritas Cluster Server (VCS) support for OpsCenter 7.7.2, OpsCenter server 7.7.3, OpsCenter server 8.0, OpsCenter server 8.1 in cluster mode:

VCS version 6.1 on Windows 2008 R2 SP1 and Windows 2012 R2.

OpsCenter Agent and OpsCenter View Builder installations are not supported in a cluster environment.

32-bit View Builder binaries are used on 64-bit platforms.

OS	CPU Architecture	OpsCenter Server	OpsCenter Agent	OpsCenter View Builder
SUSE Linux Enterprise Server 12	x86-64	Yes	No	No

NetBackup OpsCenter Binary Size

Approximate binary sizes for NetBackup OpsCenter Agent, Server, and ViewBuilder software.

OS - All Versions	CPU Architecture	Agent	Server	ViewBuilder
SUSE Linux Enterprise Server	x86-64		832MB	

NetBackup OpsCenter Physical Memory Requirement

OS/Version	CPU Architecture	Minimum Memory Requirement
SUSE Linux Enterprise Server 12	x86-64	8 GB

Valid Characters in Host Names Requirement

NetBackup OpsCenter requires host names to comply with [RFC-1123](#), meaning only ASCII characters "a" thru "z", case insensitive, and digits "0" thru "9" and the hyphen character.

Software compatibility and release notes documentation is contained in:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

[NetBackup Release Notes](#)

[NetBackup Self Service Release Notes](#)

NetBackup Administration Consoles

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The NetBackup Java Administration Console is an interface to configure and manage NetBackup installed on the same machine. The interface can run on any NetBackup Java-capable system.

The Backup Archive and Restore (BAR) console is an interface to the NetBackup client. The Backup, Archive, and Restore utility performs backups and archives for the system on which it is installed and restores for this system and other clients.

For information on how to install the consoles mentioned above reference the NetBackup Installation Guides. And for information on usage reference the NetBackup Administrator's Guides.

The table below is a list of the platforms that support the NetBackup-Java Administration Console and the Backup Archive and Restore Interface.

Note: If a supported NetBackup client is not listed in the table below the client is supported for backup and restore, but it does not support any of the available graphical interfaces.

Where support is shown for "Windows Server 2008" or "Windows Server 2008 R2", it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012" or "Windows Server 2016" it is implied that Standard Edition, Datacenter Edition, Essentials Edition, and Foundation Edition are supported.

Where support is shown for "Windows Server 2019" it is implied that Standard Edition, Datacenter Edition, Essentials Edition are supported.

Administrative consoles for supported versions of NetBackup are included in the NetBackup installation packages.

Starting at version 8.1, console versions are installed for all versions of NetBackup that are not beyond their End of Support Life (EOSL).

For information on supported versions of NetBackup see <https://sort.veritas.com/eosl>.

OS	CPU Architecture	NetBackup-Java Administration Console	Backup, Archive, and Restore Interface
SUSE Linux Enterprise Server 11, 12, 15	x64	Y	Y

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

NetBackup in the Cloud

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NetBackup now supports cloud-based Master Servers and Media Servers as part of extending data protection into workloads in the cloud. For more information, see the ["360 Data Management"](#) page.

NetBackup in the Cloud - Considerations

Subject	Notes
Support assumptions	<ol style="list-style-type: none">1. NetBackup is supported on any cloud infrastructure environment that meets NetBackup's minimum resource requirements. For details on operating systems supported by NetBackup, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" . For details on NetBackup minimum resource requirements, please refer to the "NetBackup Installation Guide" .2. Veritas does not certify the cloud compute layer or the cloud block storage layer. They are assumed to work as similar physical resources do.3. NetBackup-certified cloud object storage support is listed in the vendor tables in the Cloud Storage Solutions section of this HCL.4. NetBackup deployment templates are available for some operating systems and cloud infrastructure solutions. Supported templates are listed in the vendor tables below. For a quicker and easier NetBackup deployment, Veritas strongly recommends using these templates for deploying NetBackup instead of doing a manual NetBackup installation. For examples, see Setting up NetBackup CloudCatalyst in AWS and NetBackup in the Cloud - Guidelines for AWS Deployments .

NetBackup in the Cloud - Links to Solution Information

NetBackup is supported on any cloud infrastructure environment that meets NetBackup's minimum resource requirements. Solution briefs have been created for the cloud infrastructures listed in the table below.

Vendor	URL
Amazon	https://www.veritas.com/solution/amazon-web-services
Google	https://www.veritas.com/solution/google-cloud-platform
IBM	https://www.veritas.com/solution/ibm-cloud
Microsoft	https://www.veritas.com/solution/microsoft-cloud
Oracle	https://www.veritas.com/solution/oracle-cloud

NetBackup in the Cloud - Deployment Templates

Amazon

This solution deploys a NetBackup Master or Media Server in an Amazon Web Services EC2 instance, using the AWS CloudFormation feature.

Amazon Machine Image (AMI) for NetBackup

Operating System	NetBackup template file	NetBackup Master Server support	NetBackup Media Server support	Supported Locales / Regions
Red Hat Enterprise Linux	Veritas NetBackup for AWS (BYOL)	Yes	Yes	All Locales

Microsoft

This solution deploys a NetBackup Master or Media Server in a Microsoft Azure Virtual Machine, using an Azure Resource Manager (ARM) template.

Azure Resource Manager (ARM) for NetBackup

Operating System	NetBackup template file	NetBackup Master Server support	NetBackup Media Server support	Supported Locales / Regions
Microsoft Windows Server	Veritas NetBackup on Azure Marketplace	Yes	Yes	All Locales

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

NetBackup Snapshot Manager

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This feature is not supported on this platform.

NetBackup Hardware Compatibility Documentation:

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List \(last updated on May 22, 2023\)](#)

[NetBackup Hardware Compatibility Documentation: Introduction](#)

NetBackup Future Platform and Feature Plans

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Veritas is committed to providing the best possible data protection experience for NetBackup customers on the widest variety of platforms, operating systems, databases, applications, and hardware. Veritas is continuously reviewing NetBackup's support of these items to ensure the proper balance of supporting their General Availability release, the very latest versions of new software, hardware and introducing new features and functionality and maintaining support for existing and older versions of these products and NetBackup functionality. While Veritas is continually adding support for new features, platforms, operating systems, and applications, it may be also necessary to improve, replace, or remove support in NetBackup for lesser used, older features, functionality, software, OS, databases, applications, integration with other products, and hardware that are no longer supported or nearing their end of support life from the manufacturer from NetBackup Compatibility Lists.

To better help its customers to plan for these upcoming changes to the support status of these items in NetBackup, Veritas will provide advanced notification as soon as possible as listed below. Veritas intends to list the older product functionality, features, hardware, OS, and 3rd party software products that will no longer be supported in the next release of NetBackup. If possible, these items are listed at least six months before that release.

The information below lists certain features, functionality, 3rd-party and Veritas products, applications, databases, and OS/ Platforms for which Veritas intends to replace with newer and improved functionality, or in some cases, discontinue without replacement. The last release of NetBackup to proliferate support of the item is provided. Technotes in the Notes column contain additional details about available replacement options. Where a major, minor or release update version is specified, the feature or platform is supported through the last Maintenance Update (patch) of that release. Where 'All' is specified, it is supported for all versions or variations of the family of the relevant or supported platforms.

Check this site frequently for updated information for NetBackup. If an item listed below will cause significant business impacts, contact your Veritas Sales Account Team. Please note that the official NetBackup Support Lifecycle for your existing NetBackup product version won't be affected or altered in any way. For the official Veritas Support Lifecycle Policy of all NetBackup versions, see https://www.veritas.com/content/support/en_US/terms/support-fundamentals.html.

Information in the following table contains plans starting with NetBackup 7.5. For information concerning no longer supported platforms, consult the following section of the report.

Information in the following table was last updated on **2023-10-23**.

Date Added/Modified	Feature/Functionality/OS/Platform	NetBackup Area	OS/Platform	OS/Platform Version	CPU Architecture	Last Supported Release	Notes
2022-04-19	All	OpsCenter	All	All	All	10.0.0.1	
2021-06-03	VMware Cloud Director 9.0, 9.1, 9.5	All	All	All	All	9.0.0.1	VMware Cloud Director 9.0, 9.1, 9.5 to be not supported from NetBackup 9.1 onwards.
2020-09-28	SUSE Linux Enterprise Server 12 SP2 or older	All	SUSE Linux Enterprise Server	12 and Older	All	8.2	End of Life

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

The following Operating System and Application Versions/Architectures in the 8.x.x versions of NetBackup will be End of Life.

Platform and Application Versions	CPU Architecture	OS Bits	NetBackup	Last NetBackup Release Supported
Red Hat Enterprise Linux (RHEL) 6.8, 6.9 and 6.10	ALL	64	Master, Media and Client	8.3
SUSE Linux Enterprise Server 11	ALL	64	Master, Media and Client	8.2
SUSE Linux Enterprise Server 12 SP2 or older	ALL	64	Master, Media and Client	8.2
Windows 7	ALL	64	Client	8.2
Windows Vista	ALL	64	Client	8.2
Windows Server 2008 and 2008 R2	ALL	64	Master, Media and Client	8.2
Red Hat Enterprise Linux and SUSE Linux Enterprise Server	z/Architecture	64	Media Server	8.2
VMware vSphere 5.5	x86-64	64	VMware Agent	8.1.2
Hewlett Packard Enterprise HP-UX (All Versions)	IA64	64	Master and Media Server	8.1.1
IBM AIX (All Versions)	POWER	64	Master and Media Server	8.1.1
Red Hat Enterprise Linux (RHEL) 6.7 or older	x86-64	64	Master, Media and Client	8.1.1
CentOS 6.7 or older	x86-64	64	Media and Client	8.1.1
Oracle Linux 6.7 or older	x86-64	64	Media and Client	8.1.1

NetBackup Software Compatibility Documentation:

[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List \(last updated on March 11, 2024\)](#)

[8.0 - 8.x.x OS Software Compatibility List Updates](#)

Documentation

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Product Documentation

- [NetBackup Documentation Landing Page \(Including links for all PDFs individually, and PDFs in a single .zip file\)](#)

[NetBackup 8.1.2 Installation Guide](#)

[NetBackup 8.1 Emergency Engineering Binary Guide](#)

[NetBackup 8.1 Self Service PDFs in one .zip file](#)

[NetBackup 8.1.2 Administrator's Guide, Volume I](#)

[NetBackup 8.1.2 Administrator's Guide, Volume II](#)

[NetBackup Add-in for Microsoft SCVMM Console Guide](#)

[NetBackup AdvancedDisk Storage Solutions Guide](#)

[NetBackup Backup, Archive, and Restore Getting Started Guide](#)

[NetBackup Bare Metal Restore Administrator's Guide](#)

[NetBackup Cloud Administrator's Guide](#)

[NetBackup Clustered Master Server Administrator's Guide](#)

[NetBackup Commands Reference Guide](#)

[NetBackup DataStore SDK Programmer's Guide for XBSA 1.1.0](#)

[NetBackup Deduplication Guide](#)

[NetBackup Device Configuration Guide](#)

[NetBackup for DB2 Administrator's Guide](#)

[NetBackup for Enterprise Vault Agent Administrator's Guide](#)

[NetBackup for Hadoop Administrator's Guide](#)

[NetBackup for HBase Administrator's Guide](#)

[NetBackup for Hyper-V Administrator's Guide](#)

[NetBackup for Informix Administrator's Guide](#)

[NetBackup for Lotus Notes Administrator's Guide](#)

[NetBackup for MariaDB Administrator's Guide](#)

[NetBackup for Microsoft Exchange Server Administrator's Guide](#)

[NetBackup for Microsoft SharePoint Server Administrator's Guide](#)

[NetBackup for Microsoft SQL Server Administrator's Guide](#)

[NetBackup for MySQL Administrator's Guide](#)

[NetBackup for NDMP Administrator's Guide](#)

[NetBackup for Nutanix Acropolis Hypervisor \(AHV\) Administrator's Guide](#)

Veritas Services and Operations Readiness Tools (SORT)

[NetBackup for Oracle Administrator's Guide](#)
[NetBackup for PostgreSQL Administrator's Guide](#)
[NetBackup for SAP Administrator's Guide](#)
[NetBackup for SQLite Administrator's Guide](#)
[NetBackup for Sybase Administrator's Guide](#)
[NetBackup for VMware Administrator's Guide](#)
[NetBackup Getting Started Guide](#)
[NetBackup Logging Reference Guide](#)
[NetBackup Network Ports Reference Guide](#)
[NetBackup OpenStorage Solutions Guide for Disk](#)
[NetBackup OpsCenter 8.1.2 Administrator's Guide](#)
[NetBackup OpsCenter Reporting Guide](#)
[NetBackup Plug-in for VMware vSphere Client Guide \(HTML5\)](#)
[NetBackup Plug-in for VMware vSphere Web Client Guide](#)
[NetBackup Replication Director Solutions Guide](#)
[NetBackup SAN Client and Fibre Transport Guide](#)
[NetBackup Security and Encryption Guide](#)
[NetBackup Self Service Configuration Guide](#)
[NetBackup Self Service Installation Guide](#)
[NetBackup Snapshot Client Administrator's Guide](#)
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[NetBackup WebSocket Service \(NBWSS\) Reference Guide](#)
[Veritas Service and License Agreements](#)
[Veritas Smart Meter Getting Started Guide](#)

Installation/Upgrade Documentation

[Veritas Services and Operations Readiness Tools \(SORT\)](#)

[How to perform a consistency check of the NetBackup EMM and BMR databases](#)

[Links to the latest NBCC / NBCCR downloads](#)

[NetBackup Replication Director Tools for NetApp Storage Systems](#)

[NetBackup Upgrade Guide](#)

[What's new in NetBackup releases](#)

[NetBackup Release Notes](#)

[NetBackup Self Service Release Notes](#)

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Late Breaking News

[Guidelines for the availability of EEB/hotfixes](#)

[Updates, Patches and Late Breaking News for NetBackup 8.1, NetBackup 8.1.1 and NetBackup 8.1.2](#)

Compatibility Lists

[NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List](#)

[NetBackup 8.0 - 8.1.x Hardware and Cloud Storage Compatibility List](#)

[NetBackup Compatibility List for all Versions](#)

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[Support for NetBackup in virtual environments](#)

Performance and Tuning Guidelines

[ERROR CODE: error 26 bpbrm jobs failing with status 26](#)

[Information on resource allocation within NetBackup](#)

[Insufficient system file descriptors can cause performance issues and possible growth in the EMM_DATA.db file](#)

[Minimum O/S ulimit settings on UNIX platforms](#)

[NetBackup OpsCenter Performance and Tuning Guide](#)

[NetBackup pre-install check detects insufficient space to perform upgrade](#)

[Recommended NetBackup UNIX / Linux semaphore tuning values \(Linux/Solaris/HP-UX/AIX\)](#)

Product End of Life Information

[SORT End of Support Life matrix for NetBackup](#)

[Veritas Services and Operations Readiness Tools \(SORT\)](#)

[Veritas End of Life Policy](#)

Other Related Documentation

[NetBackup Vault Operator's Guide](#)

[Veritas Entitlement Management System Guide](#)