

Veritas NetBackup™ Enterprise Server and Server 9.0 - 9.x.x OS Software Compatibility List

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Introduction

This Software Compatibility List (SCL) document contains information for Veritas NetBackup 9.0 through 9.x.x. It covers NetBackup Server (which includes Enterprise Server and Server), Client, Bare Metal Restore (BMR), Clustered Primary 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 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.

Browser Requirements for the NetBackup Web User Interface (NetBackup Web UI)

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
Mozilla Firefox	83 or later.	The latest browser edition is recommended. Download from https://www.mozilla.org/en-US/firefox/
Google Chrome	87 or later.	The latest browser edition is recommended. Download from https://www.google.com/chrome/

9.0 - 9.x.x OS Software Compatibility List Updates

Update Information

Description of Change	Date	NetBackup Version Start of Support
NetBackup GA 9.1.0.1	2021-09-07	NetBackup 9.1.0.1
NetBackup GA 9.1	2021-06-07	NetBackup 9.1
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NetBackup GA 9.0	2021-01-01	NetBackup 9.0

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Operating Systems

Most operating system vendors provide patches and updates to their products. It is a best practice of NetBackup Quality Engineering to test with the latest service pack or patch level of the operating system when testing a platform. If a known problem exists on a specific service pack or patched OS level, this information is identified in the tables below. Any required operating system patches for specific releases of NetBackup are documented in the NetBackup Release Notes. The current patch versions of releases will work with NetBackup for the operating systems listed below unless otherwise noted. Veritas supports the standard un-altered kernel/operating system levels as indicated in the table, provided the OS Vendor still provides support for that level. 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.

NetBackup Vault:

This option runs on the same operating systems and versions and in the same clustering environments as NetBackup unless otherwise noted in the NetBackup Release Notes. NetBackup restrictions and limitations related to systems, clusters, and peripherals also apply to Vault.

Exception: Vault does not support standalone drives.

Data at Rest Key Management Service (KMS):

This feature is a primary server-based symmetric key management service that manages symmetric cryptography keys for tape drives that conform to the T10 standard (i.e. LTO4). KMS is supported on all OS versions where the primary server and media server are supported unless otherwise noted.

Support Definitions:

Veritas Maintenance/Support only applies to Veritas Licensed Software, assuming you have a current Veritas Maintenance/Support subscription for such software and such Veritas Licensed Software is operating in configurations which Veritas designates as supported. Veritas Maintenance/Support does not cover (and we have no responsibility for) providing technical support, installation services or other services for any other software or hardware products. Also, Veritas is not obligated to provide Maintenance/Support when your Veritas Licensed Software is operating in configurations Veritas does not designate as supportable/supported. Please see the current Veritas Technical Support Policy and your Veritas license agreement for more information, terms and limitations.

Supported Configurations:

For more information about technical notes in regards to Veritas supported configurations (such as operating system/levels, firmware levels, databases, devices, device drivers, applications, etc.), please refer to the Veritas Support website <https://www.veritas.com/support/en_US.html> Please note that while Veritas makes reasonable efforts to keep this information updated, we cannot assure that this information will be in all cases complete or the most current.

Third Party Products:

Where your problem may be related to product(s) from a third party vendor with whom we have a cooperative or collaborative relationship on such product(s), then Veritas may work with that vendor towards resolving your reported problem. Where Veritas does not have such a support relationship in place with the third party vendor, or where 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.

NetBackup plug-ins and agents

Verita supports modern, next-generation workloads and hyper-converged infrastructure environments in NetBackup 9.0

For further information, please refer to <https://www.veritas.com/support/en_US/article.000127427>

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Beijing Linx Software Corp Linx

Beijing Linx Software Corp Linx - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Linx 6.0	x86-64	64	Y	64			9.0

Canonical Ubuntu

Canonical Ubuntu - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Ubuntu 24.04	x86-64	64	Y	64			9.0
Ubuntu 23.04	x86-64	64	Y	64			9.0
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Ubuntu 20.04	x86-64	64	Y	64			9.0
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Ubuntu 19.04	x86-64	64	Y	64			9.0
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Ubuntu 18.04	x86-64	64	Y	64			9.0
Ubuntu 16.04	x86-64	64	Y	64			9.0

CentOS

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.

CentOS - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
CentOS 8 [1]	x86-64	64	Y	64	Y		9.0
CentOS 7	x86-64	64	Y	64	Y	Y	9.0

1. For installation prerequisites refer: <<https://www.veritas.com/docs/100045645>>

CentOS - 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
CentOS 8 [1]	x86-64	64	Y [2]	Y	64	Y			Y	9.0
CentOS 7	x86-64	64	Y [3]	Y	64	Y			Y	9.0

1. For installation prerequisites refer: <<https://www.veritas.com/docs/100045645>>

2. NetBackup Primary Server support requires CentOS 8.1 or later.

3. NetBackup Primary Server support requires CentOS 7.7 or later.

Debian GNU/Linux

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.

Debian GNU/Linux - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
GNU/Linux 11	x86-64	64	Y	64			9.0
GNU/Linux 10	x86-64	64	Y	64			9.0
GNU/Linux 9	x86-64	64	Y	64			9.0

Hewlett Packard Enterprise HP-UX

Hewlett Packard Enterprise HP-UX - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
HP-UX 11.31	IA64	64	Y	64	Y	Y	9.0

IBM AIX

Veritas does not test all IBM POWER-based server models and relies on the IBM AIX compatibility statement.

NetBackup supports IBM AIX on POWER 8/9 hardware platforms.

SAN Client supports Logical Partition(LPAR) with shared port VIO configuration. Please refer for additional details: <https://www.veritas.com/support/en_US/article.100024969>

Supported Fibre Transport Media Server HBAs, Refer: Hardware Compatibility List <https://www.veritas.com/content/support/en_US/article.100040093>

IBM AIX - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
AIX 7.3	POWER	64	Y	64	Y	Y	9.0
AIX 7.2	POWER [1]	64	Y	64	Y	Y	9.0
AIX 7.1 [2]	POWER	64	Y	64	Y	Y	9.0

1. Netbackup 9.0 supports IBM P9 on AIX 7.2(TL2) and later versions

2. NetBackup 9.0 and later support AIX 7.1 TL3 and later versions.

KylinSoft Corporation Kylin Linux Advanced Server

KylinSoft Corporation Kylin Linux Advanced Server - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Kylin Linux Advanced Server 10.0	x86-64	64	Y	64			9.0
NeoKylin Linux Advanced Server 7.0	x86-64	64	Y	64			9.0
NeoKylin Linux Advanced Server 6.0	x86-64	64	Y	64			9.0

Microsoft Windows 8

NetBackup Client is supported on all Windows 8 Editions for x86-64 architecture (Intel 64 and AMD64).

Microsoft Windows 8 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows 8.1	x86-64	64	Y	64			9.0

Microsoft Windows 10

NetBackup Client is supported on Windows 10 Enterprise, Professional and Education Edition for x86-64 architecture (Intel 64 and AMD64).
BMR Boot Server is not supported on Windows 10.

Microsoft Windows 10 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows 10	x86-64	64	Y	64	Y		9.0

Microsoft Windows 11

Microsoft Windows 11 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows 11	x86-64	64	Y	64			9.0

Microsoft Windows Server 2012

NetBackup Client is supported on Microsoft Windows Server 2012 Editions: Foundation, Essentials, Standard, and Datacenter, and with "core" option enabled or disabled. NetBackup supported functionality is listed in the tables below. 64-bit OS on Intel 64 and AMD64 architectures is supported.

NetBackup Primary and Media Server are supported on Microsoft Windows Server 2012 Editions: Foundation, Essentials, Standard, and Datacenter, and with "core" option enabled or disabled. NetBackup supported functionality is listed in the tables below. 64-bit OS on Intel 64 and AMD64 architectures is supported.

Reference the MSFT web site for information on Editions.

NetBackup Client and Media Server are supported on Microsoft Storage Server 2012 and 2012 R2.

Windows Service Packs (SP) are supported by default, unless noted otherwise below.

Microsoft Windows Server 2012 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Server 2012 [1]	x86-64	64	Y	64	Y	Y	9.0
Windows Server 2012 R2 [1]	x86-64	64	Y	64	Y	Y	9.0

1. Refer to File System Compatibility table for support details regarding the Windows 2012 NTFS data deduplication feature, and the ReFS file system.

Microsoft Windows Server 2012 - 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
Windows Server 2012 [1]	x86-64	64	Y	Y	64	Y	Y	Y	Y	9.0
Windows Server 2012 R2 [1]	x86-64	64	Y	Y	64	Y	Y	Y	Y	9.0

1. Refer to File System Compatibility table for support details regarding the Windows 2012 NTFS data deduplication feature, and the ReFS file system.

Microsoft Windows Server 2016

NetBackup Client is supported on Microsoft Windows Server 2016 Editions: Foundation, Essentials, Storage Server, Standard and Datacenter and with "core" option enabled or disabled.

NetBackup Primary and Media Server is supported on Microsoft Windows Server 2016 Editions: Standard and Datacenter. Not supported on "core" option.

NetBackup supported functionality is listed in the tables below. 64-bit OS on Intel 64 and AMD64 architectures is supported. Reference the MSFT web site for information on Editions. Windows Service Packs (SP) are supported by default, unless noted otherwise below.

Microsoft Windows Server 2016 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Server 2016 [1]	x86-64 [2]	64	Y	64	Y	Y	9.0

1. Refer to File System Compatibility table for support details regarding the Windows 2016 NTFS data deduplication feature, and the ReFS file system.

2. Netbackup 9.1 supports FTMS with Emulex HBA LPe31002 in SAN Mode Configuration.

Microsoft Windows Server 2016 - 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
Windows Server 2016 [1]	x86-64 [2]	64	Y	Y	64	Y	Y	Y	Y	9.0

1. Refer to File System Compatibility table for support details regarding the Windows 2016 NTFS data deduplication feature, and the ReFS file system.
2. Netbackup 9.1 supports FTMS with Emulex HBA LPe31002 in SAN Mode Configuration.

Microsoft Windows Server 2019

NetBackup Client is supported on Microsoft Windows Server 2019 Editions: Essentials, Standard and Datacenter and with "core" option enabled or disabled.

NetBackup supported functionality is listed in the tables below. 64-bit OS on Intel 64 and AMD64 architectures is supported.

Refer the Microsoft web site for information on Editions. Windows Service Packs (SP) are supported by default, unless noted otherwise below.

Microsoft Windows Server 2019 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Server 2019 [1]	x86-64 [2]	64	Y	64	Y	Y	9.0

1. Refer to File System Compatibility table for support details regarding the Windows 2016 NTFS data deduplication feature, and the ReFS file system.

2. Netbackup 9.1 supports FTMS with Emulex HBA LPe31002 in SAN Mode Configuration.

Microsoft Windows Server 2019 - 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
Windows Server 2019 [1]	x86-64 [2]	64	Y	Y	64	Y	Y	Y	Y	9.0

1. Refer to File System Compatibility table for support details regarding the Windows 2016 NTFS data deduplication feature, and the ReFS file system.
2. Netbackup 9.1 supports FTMS with Emulex HBA LPe31002 in SAN Mode Configuration.

Microsoft Windows Server 2022

NetBackup Client is supported on Microsoft Windows Server 2022 Editions: Essentials, Standard and Datacenter and with "core" option enabled or disabled.

NetBackup supported functionality is listed in the tables below. 64-bit OS on Intel 64 and AMD64 architectures is supported.

Refer the Microsoft web site for information on Editions. Windows Service Packs (SP) are supported by default, unless noted otherwise below.

Microsoft Windows Server 2022 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Server 2022	x86-64	64	Y	64	Y	Y	9.0

Microsoft Windows Server Semi-Annual Channel

NetBackup Client is supported on Microsoft Windows Semi-Annual Channel.

- Only file system backup is supported.
- BMR is not supported on this platform.

This platform is supported as per Microsoft Lifecycle Policy.

Refer <<https://docs.microsoft.com/en-us/windows-server/get-started/windows-server-release-info>>

Microsoft Windows Server Semi-Annual Channel - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Server 1909	x86-64	64	Y	64	Y	Y	9.0
Windows Server 1903	x86-64	64	Y	64	Y	Y	9.0
Windows Server 1809	x86-64	64	Y	64	Y	Y	9.0
Windows Server 1803	x86-64	64	Y	64	Y	Y	9.0
Windows Server 1709	x86-64	64	Y	64	Y	Y	9.0

Oracle Linux

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.

NetBackup Client is supported on both the Oracle Unbreakable Linux Kernel and the Oracle Red Hat Compatible Kernel.

Oracle Linux - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Linux 8	x86-64	64	Y	64	Y		9.0
Linux 7	x86-64	64	Y	64	Y		9.0

Oracle Linux - 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
Linux 8	x86-64	64		Y	64	Y		Y	Y	9.0
Linux 7	x86-64	64		Y	64	Y	Y	Y	Y	9.0

Oracle Solaris

SAN Client feature is supported only on physical machine.

Oracle Solaris - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Solaris 11	SPARC	64	Y	64	Y	Y	9.0
Solaris 11	x86-64	64	Y	64	Y	Y	9.0
Solaris 10 [1]	SPARC	64	Y	64	Y	Y	9.0
Solaris 10 [1]	x86-64	64	Y	64	Y	Y	9.0

1. Oracle Solaris 10 Update 11 or later is required.

Oracle Solaris - 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
Solaris 11	SPARC	64	Y	Y	64	Y		Y	Y	9.0
Solaris 11	x86-64	64	Y	Y	64	Y		Y	Y	9.0
Solaris 10 [1]	SPARC	64	Y	Y	64	Y		Y	Y	9.0
Solaris 10 [1]	x86-64	64	Y	Y	64	Y		Y	Y	9.0

1. Oracle Solaris 10 Update 11 or later is required.

Red Hat Enterprise Linux

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.

For Red Hat Security Enhanced Linux considerations refer to https://www.veritas.com/support/en_US/article.TECH76714 .

Red Hat Enterprise Linux - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Enterprise Linux 9	x86-64	64	Y [1]	64		Y	9.1.0.1
Enterprise Linux 8 [2]	POWER	64	Y	64			9.0
Enterprise Linux 8 [2]	x86-64	64	Y	64	Y	Y	9.0
Enterprise Linux 8 [2]	z/Architecture	64	Y	64	Y		9.0
Enterprise Linux 7 [3]	POWER	64	Y	64			9.0
Enterprise Linux 7 [3]	x86-64 [4]	64	Y	64	Y	Y	9.0
Enterprise Linux 7 [3]	z/Architecture	64	Y	64	Y		9.0

1. The EEB required for NetBackup 9.1.0.1 can be obtained from Veritas Technical Support.
2. For installation prerequisites refer: <https://www.veritas.com/docs/100045645>
3. Minimum version required is Redhat Enterprise Linux Server 7.4
4. Netbackup 9.1 supports FTMS with Emulex HBA LPe31002 in SAN Mode Configuration.

Red Hat Enterprise Linux - 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
Enterprise Linux 8 [1]	x86-64	64	Y	Y	64	Y	Y	Y	Y	9.0
Enterprise Linux 7 [2]	x86-64 [3]	64	Y	Y	64	Y	Y	Y	Y	9.0

1. For installation prerequisites refer: <<https://www.veritas.com/docs/100045645>>
2. Minimum version required is Redhat Enterprise Linux Server 7.4
3. Netbackup 9.1 supports FTMS with Emulex HBA LPe31002 in SAN Mode Configuration.

Rocky Software Foundation Rocky Linux

Rocky Software Foundation Rocky Linux - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Rocky Linux 8	x86-64	64	Y	64			9.0

SUSE SUSE Linux Enterprise Server

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 15	POWER	64	Y [1]	64		Y	9.0
SUSE Linux Enterprise Server 15	x86-64	64	Y	64	Y	Y	9.0
SUSE Linux Enterprise Server 15	z/Architecture	64	Y	64	Y		9.0
SUSE Linux Enterprise Server 12	POWER [2] [3]	64	Y	64	Y	Y	9.0
SUSE Linux Enterprise Server 12	x86-64 [4]	64	Y [5]	64	Y	Y	9.0
SUSE Linux Enterprise Server 12	z/Architecture [4]	64	Y	64	Y		9.0

1. Netbackup 9.0 supports IBM P9 on SUSE Linux Enterprise Server 15 and later versions
2. Netbackup 9.0 supports IBM P9 on SUSE Linux Enterprise Server 12 SP3 and later versions
3. Supported from SUSE Enterprise Linux Server version 12 SP3 and later.
4. NetBackup 9.0 requires SuSE Linux Enterprise Server 12 SP3 or later versions
5. Supports BTRFS filesystem with sub-volumes and snapshots, Supported with known Issue: <<http://www.veritas.com/docs/000106399>>

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 15	x86-64	64	Y	Y	64	Y	Y	Y	Y	9.0
SUSE Linux Enterprise Server 12	x86-64 [1]	64	Y	Y	64	Y	Y	Y	Y	9.0

1. NetBackup 9.0 requires SuSE Linux Enterprise Server 12 SP3 or later versions

Active Directory Support

Active Directory is supported via the standard Windows file system agent when specifying System State:\ or Shadow Copy Components:\. Since it is a part of the standard system components, backup and recovery of Active Directory is supported on all Windows server platforms which NetBackup supports as a client.

Active Directory Granular Restore is a special restore option enabled by a policy selection. This option is also supported on all platforms in which Active Directory is supported by NetBackup.

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.

Agent	OS	CPU Architecture	OS Bit
Active Directory Granular Restore	Windows Server 2022	x86-64	64
Active Directory Granular Restore	Windows Server 2019	x86-64	64
Active Directory Granular Restore	Windows Server 2016	x86-64	64
Active Directory Granular Restore	Windows Server 2012 R2	x86-64	64
Active Directory Granular Restore	Windows Server 2012	x86-64	64

Bare Metal Restore (BMR)

General Information

Bare Metal Restore Server (BMR server) is a feature of the Primary 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:

- BMR restores uses NBCA certificates hence primary 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>

Bare Metal Restore File System/Volume Manager Support

Listed in the table below are the available File Systems and Logical Volume Managers compatible with Bare Metal Restore 9.0 through 9.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
AIX 7.1 POWER (TL0SP1 and above)	JFS, JFS2 VxFS 5.0 - 6.0 RP1	Native LVM, VxVM 5.0 - 6.0 RP1	All	<ol style="list-style-type: none"> 1. Qualification is done with VxVM 6.0 and 6.0 RP1. 2. If a Veritas Volume Manager managed disk has the Cross Platform Data Sharing (CDS) enabled and you map that disk to an IDE disk the CDS capability will be lost. For more information reference the VxVM Administrators Guide.
AIX 7.2 POWER (TL0 and above)	JFS, JFS2	Native LVM	All	
CentOS 8 (x64)	EXT2, EXT3, EXT4	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. 2. 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.
CentOS 7 (x64)	EXT2, EXT3, EXT4	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. 2. 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.
HP-UX 11.31 IA64	HFS, JFS, VxFS	Native LVM, VxVM 5.0	All	<p>Support is limited for LVM and VxVM</p> <ol style="list-style-type: none"> 1. For DDR operation, only volume size changing is supported. Re-mapping to different disks is not supported. 2. In case of VxVM, support is only the self restore of non-root/boot volumes. 3. Disk layout change, volume resizing and re-mapping to different disks is supported for LVM and VxVM. 4. VxVM 5.0.1 compatibility is a future effort. Use VxVM 5.0 based BMR SRT to restore clients with VxVM 5.0.1 based non system volumes.
Red Hat 7 (x64)	EXT2, EXT3, EXT4, XFS, VFAT	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 supported 2. 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. Supports recovery of EFI machines along with GPT disks
Red Hat 8 (x64)	EXT2, EXT3, EXT4, XFS, VFAT	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 supported 2. 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. Supports recovery of EFI machines along with GPT disks

OS	File Systems	Volume Managers	Striping, Mirroring, RAID	Notes
Solaris 11 SPARC (GA and above)	ZFS	ZFS	All	
Solaris 11 x64 (GA and above)	ZFS	ZFS	All	
SUSE Linux Enterprise Server 12 (x64) [1]	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 supported 2. 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.
Oracle Linux 7 (x64)	EXT2, EXT3, EXT4, XFS	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 supported 2. 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). 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.
Oracle Linux 8 (x64)	EXT2, EXT3, EXT4, XFS	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 supported 2. 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). 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.
Windows Server 2012 x64 (64-bit)	FAT32, NTFS, ReFS	Windows LDM	All	
Windows Server 2012 R2 x64 (64-bit)	FAT32, NTFS, ReFS	Windows LDM	All	
Windows Server 2016 x64 (64-bit)	FAT32, NTFS, ReFS	Windows LDM	All	For Bare Metal Restore (BMR) restore of Windows Server 2016, the ReFS volumes which are restored are downgraded to ReFS version 1.2. For more information, refer : < https://www.veritas.com/support/en_US/article.100041695 >
Windows Server 2019 x64 (64-bit)	FAT32, NTFS, ReFS	Windows LDM	All	For Bare Metal Restore (BMR) restore of Windows Server 2019, the ReFS volumes which are restored are downgraded to ReFS version 1.2 For more information, refer: < https://www.veritas.com/support/en_US/article.100041695 >
Windows 8 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	
Windows 8.1 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	
Windows 10 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	

1. NetBackup 9.0 requires SuSE Linux Enterprise Server 12 SP3 or later versions

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

Clustered Primary Server Compatibility

See NetBackup High Availability Administrator's Guide <<http://www.veritas.com/docs/000003214>> for details. Cluster compatibility is only listed for NetBackup Components that are cluster aware. NetBackup clients and agents are supported in cluster environments but are not cluster aware.

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 footnoted in this document or in the NetBackup OS Compatibility List. <<http://www.veritas.com/docs/000040842>>

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>>

Cluster Type	Version	OS	CPU Architecture	Supported NetBackup Version
VCS (InfoScale) [1] [2]	8.0	Windows Server 2019	x86-64	9.1.0.1
VCS (InfoScale)	8.0	Redhat Enterprise Linux 8.6	x86-64	9.1.0.1
VCS (InfoScale)	7.4.1	Windows Server 2016	x86-64	9.1
VCS (InfoScale)	7.4.1	Windows Server 2012 R2	x86-64	9.1
VCS (InfoScale)	7.4.1	Windows Server 2012 R2	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.8	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.9	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.4	x86-64	9.1.0.1
VCS (InfoScale) [2]	8.0	Redhat Enterprise Linux 8.4	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.5	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.6	x86-64	9.1.0.1
VCS (InfoScale)	8.0	Solaris 11.4	SPARC	9.1.0.1
VCS (InfoScale) [1]	7.4.1	Windows Server 2016	x86-64	9.1.0.1
VCS (InfoScale) [1] [3]	7.4.1	Windows 2019	x86-64	9.1
VCS (InfoScale) [1]	7.4.1	Windows 2019	x86-64	9.1.0.1
VCS (InfoScale) [1] [3]	7.4.2	Windows 2019	x86-64	9.1
VCS (InfoScale) [1]	7.4.2	Windows 2019	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	SuSE Enterprise Linux Server 15 SP3	x86-64	9.1
VCS (InfoScale)	7.4.1	Redhat Enterprise Linux 7.7	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	Solaris 11.4	SPARC	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.9	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 7.9	x86-64	9.1.0.1
VCS (InfoScale) [3]	7.4.1	Redhat Enterprise Linux 7.7	x86-64	9.1
VCS (InfoScale) [1] [3]	7.4.2	Windows Server 2016	x86-64	9.1.0.1

Cluster Type	Version	OS	CPU Architecture	Supported NetBackup Version
VCS (InfoScale) [1] [3]	7.4.2	Windows Server 2016	x86-64	9.1
VCS (InfoScale) [1] [3]	7.4.2	Windows Server 2019	x86-64	9.0
VCS (InfoScale)	7.4.2	Solaris 11.4	SPARC	9.1
VCS (InfoScale)	7.4.1	Solaris 11.3	SPARC	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 7.9	x86-64	9.1
VCS (InfoScale)	7.4.1	Redhat Enterprise Linux 7.9	x86-64	9.1
VCS (InfoScale)	7.4.1	Redhat Enterprise Linux 7.9	x86-64	9.0.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.2	x86-64	9.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.2	x86-64	9.1
VCS (InfoScale)	7.3.1	SuSE Enterprise Linux 12 SP5	x86-64	9.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.4	x86-64	9.0.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.4	x86-64	9.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 7.8	x86-64	9.1
VCS (InfoScale)	7.4.1	Solaris 11.4	SPARC	9.0
VCS (InfoScale)	7.4.1	Redhat Enterprise Linux 7.8	x86-64	9.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.3	x86-64	9.1.0.1
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.3	x86-64	9.0
VCS (InfoScale)	7.4.1.x	Redhat Enterprise Linux 7.9	x86-64	9.0
VCS (InfoScale)	7.4.2	Redhat Enterprise Linux 8.2	x86-64	9.0
PowerHA Cluster Manager	7.1	AIX 7.1	POWER	9.0
Solaris Cluster	4.0	Solaris 11	SPARC	9.0
Solaris Cluster	4.0	Solaris 11	x86-64	9.0
WSFC [4]	2019	Windows Server 2019	x86-64	9.0
WSFC [4]	2016	Windows Server 2016	x86-64	9.0
WSFC [4]	2012 R2	Windows Server 2012 R2	x86-64	9.0
WSFC [4]	2012	Windows Server 2012	x86-64	9.0
HP Service Guard MC SG	11.20	HP-UX 11.31	IA64	9.0
HP Service Guard MC SG	11.19	HP-UX 11.31	IA64	9.0
HP Service Guard MC SG	11.18	HP-UX 11.31	IA64	9.0

1. For NTFS corruption issue with Infoscale 6.1 and later versions, Refer: <https://www.veritas.com/support/en_US/article.100051999>

2. If Vxfs Checkpoint Snapshot method is enabled with IR option, point-in-time rollback restore operations fail. The following message is logged: "Status 2800: Standard policy restore error." To resolve the issue, upgrade to NetBackup 10.0 or later.

3. NetBackup 9.1.0.1 is required for point in-time rollback restore operation with flashsnap snapshot method enabled.

4. Windows Server Failover Cluster (WSFC), formerly MSCS.

Clustered Primary Server Storage Stacks

The table below captures the NetBackup clustering solution supported volume manager on shared disk. For example, when configuring NetBackup on a Linux OS VCS cluster, the only supported volume manager for the shared disk used by NetBackup is VxVM.

Note that the table below does not include OS versions. Please see the preceding table for specific OS version support.

NetBackup support of the FlashBackup policy with Storage Foundation 6 volume manager is scheduled for a future NetBackup release.

NetBackup support of Storage Foundation 6 features of Deduplication and Compression is scheduled for a future NetBackup release.

Cluster Technology	OS	Storage Stack
HACMP	AIX [1]	VxVM, LVM
HPSG	HP-UX [1]	VxVM, Veritas Cluster Volume Manger, LVM
MSCS/WSFC	Windows [1]	VxVM, LDM
Sun Cluster	Solaris [1]	VxVM, SVM, HAStoragePlus
Solaris Cluster	Solaris [1]	VxVM, SVM, HAStoragePlus, ZFS
VCS	AIX [1]	VxVM, LVM
VCS	HP-UX [1]	VxVM, LVM
VCS	Linux [1]	VxVM
VCS	Solaris [1]	VxVM
VCS	Windows [1] [2]	VxVM

1. Supported on all OS versions as noted in the preceding table.

2. With VCS 6.0 (VCSW/SFWHA 6.0) VSS based snapshot at a volume-level is supported, but snapshots at a LUN level will not work due to a Microsoft issue.

Client Selections for Backup Policies

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 9.0 Client Selection
AIX 7.1, 7.2	POWER	RS6000,AIX6
Canonical Ubuntu 20.04	x86-64	Linux,Debian2.6.32
Canonical Ubuntu 19.10	x86-64	Linux,Debian2.6.32
Canonical Ubuntu 19.04	x86-64	Linux,Debian2.6.32
Canonical Ubuntu 18.10	x86-64	Linux,Debian2.6.32
Canonical Ubuntu 18.04	x86-64	Linux,Debian2.6.32
Canonical Ubuntu 16.04	x86-64	Linux,Debian2.6.32
CentOS 8	x86-64	Linux,RedHat2.6.32
CentOS 7	x86-64	Linux,RedHat2.6.32
Debian GNU/Linux 10	x86-64	Linux,Debian2.6.32
Debian GNU/Linux 9	x86-64	Linux,Debian2.6.32
HP-UX 11.31	IA64	HP-UX-IA64,HP-UX11.31
NeoKylin Linux Advanced Server 7.0 Update 2	x86-64	Linux, Debian 2.6.18
NeoKylin Linux Advanced Server 6.0 Update7	x86-64	Linux, Debian 2.6.18
Mac OS X 10.10	x86-64	MACINTOSH,MacOSX 10.8
Mac OS X 10.9	x86-64	MACINTOSH,MacOSX 10.8
Mac OS X 10.8	x86-64	MACINTOSH,MacOSX 10.8
Novell Open Enterprise Server 11	x86-64	Linux,SuSE2.6.16
Novell Open Enterprise Server 2	x86-64	Linux,SuSE2.6.16
Oracle Linux 8	x86-64	Linux,RedHat2.6.32
Oracle Linux 7	x86-64	Linux,RedHat2.6.32
Red Hat Enterprise Linux 8	x86-64	Linux,RedHat2.6.32
Red Hat Enterprise Linux 7	x86-64	Linux,RedHat2.6.32
Red Hat Enterprise Linux 7	z/Architecture	Linux-s390x,IBMzSeriesRedHat2.6.18
Solaris 11	SPARC	Solaris,Solaris10

OS	CPU Architecture	NetBackup 9.0 Client Selection
Solaris 11	x86-64	Solaris,Solaris_x86_10_64
SUSE Linux Enterprise Server 12 [1]	x86-64	Linux,SuSE2.6.16
SUSE Linux Enterprise Server 12 [1]	z/Architecture	Linux-s390x,IBMzSeriesSuSE2.6.16
Windows Server 2019	x86-64	Windows-x64,Windows
Windows Server 2016	x86-64	Windows-x64,Windows
Windows Storage Server 2016	x86-64	Windows-x64,Windows
Windows Server 2012 and R2	x86-64	Windows-x64,Windows
Windows Storage Server 2012 and R2	x86-64	Windows-x64,Windows
Windows 10	x86-64	Windows-x64,Windows
Windows 8	x86-64	Windows-x64,Windows
Windows 8.1	x86-64	Windows-x64,Windows

1. NetBackup 9.0 requires SuSE Linux Enterprise Server 12 SP3 or later versions

Compatibility between NetBackup versions

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 Primary server.

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

NetBackup Primary Server	NetBackup Media Server	NetBackup Client
9.0	8.0	7.7.3, 8.0
9.0	8.1	7.7.3, 8.0, 8.1
9.0	8.1.1	7.7.3, 8.0, 8.1, 8.1.1
9.0	8.1.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2
9.0	8.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2
9.0	8.3	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1, 8.3.0.2
9.0	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
9.0	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
9.0	9.0	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, 9.0, 9.0.0.1
9.0	9.0.0.1	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, 9.0, 9.0.0.1
9.0.0.1	8.0	7.7.3, 8.0
9.0.0.1	8.1	7.7.3, 8.0, 8.1
9.0.0.1	8.1.1	7.7.3, 8.0, 8.1, 8.1.1
9.0.0.1	8.1.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2
9.0.0.1	8.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2
9.0.0.1	8.3	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1, 8.3.0.2
9.0.0.1	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, 8.3.0.2
9.0.0.1	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
9.0.0.1	9.0	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, 9.0, 9.0.0.1
9.0.0.1	9.0.0.1	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, 9.0, 9.0.0.1
9.1	8.0	7.7.3, 8.0
9.1	8.1	7.7.3, 8.0, 8.1
9.1	8.1.1	7.7.3, 8.0, 8.1, 8.1.1
9.1	8.1.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2
9.1	8.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2
9.1	8.3	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1, 8.3.0.2

NetBackup Primary Server	NetBackup Media Server	NetBackup Client
9.1	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, 8.3.0.2
9.1	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
9.1	9.0	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 9.0, 9.0.0.1
9.1	9.0.0.1	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, 9.0, 9.0.0.1
9.1	9.1	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, 9.0, 9.0.0.1, 9.1
9.1	9.1.0.1	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, 9.0, 9.0.0.1, 9.1, 9.1.0.1
9.1.0.1	8.0	7.7.3, 8.0
9.1.0.1	8.1	7.7.3, 8.0, 8.1
9.1.0.1	8.1.1	7.7.3, 8.0, 8.1, 8.1.1
9.1.0.1	8.1.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2
9.1.0.1	8.2	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2
9.1.0.1	8.3	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 8.3.0.1, 8.3.0.2
9.1.0.1	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, 8.3.0.2
9.1.0.1	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
9.1.0.1	9.0	7.7.3, 8.0, 8.1, 8.1.1, 8.1.2, 8.2, 8.3, 9.0, 9.0.0.1
9.1.0.1	9.0.0.1	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, 9.0, 9.0.0.1
9.1.0.1	9.1	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, 9.0, 9.0.0.1, 9.1, 9.1.0.1
9.1.0.1	9.1.0.1	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, 9.0, 9.0.0.1, 9.1, 9.1.0.1

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 primary servers in the environment.
- All components (primary, 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 primary, 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

Deduplication Supported Operating Systems

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

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

Where support is shown for "Windows Server 2019" it is implied that 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	Client Deduplication	Minimum NetBackup Level
Red Hat Enterprise Linux 8	x86-64	Yes	Yes	9.0
SUSE Enterprise Linux Server 15	x86-64	Yes	Yes	9.0
Windows Server 2019 [1]	x86-64	Yes	Yes	9.0
Ubuntu Linux 20	x86-64	No	Yes	9.0
Ubuntu Linux 19	x86-64	No	Yes	9.0
Ubuntu Linux 18	x86-64	No	Yes	9.0
Ubuntu Linux 16	x86-64	No	Yes	9.0
Red Hat Enterprise Linux 7	POWER	No	No	9.0
SUSE Enterprise Linux Server 12 [2]	POWER	No	No	9.0
Oracle Linux 8	x86-64	No	Yes	9.0
CentOS 8	x86-64	Yes	Yes	9.0
CentOS 7	x86-64	Yes	Yes	9.0
Oracle Linux 7	x86-64	Yes	Yes	9.0
Red Hat Enterprise Linux 8	x86-64	Yes	Yes	9.0
Red Hat Enterprise Linux 7	x86-64	Yes	Yes	9.0
SUSE Enterprise Linux Server 15	x86-64	Yes	Yes	9.0
SUSE Enterprise Linux Server 12 [2]	x86-64	Yes	Yes	9.0
Windows Server 2016 [3]	x86-64	Yes	Yes	9.0
Windows Server 2016 Storage Server	x86-64 (64-bit only)	Yes	Yes	9.0
Windows Server 2012 R2 Storage Server	x86-64 (64-bit only)	Yes	Yes	9.0
Windows Server 2012 R2 [4]	x86-64	Yes	Yes	9.0
Windows Server 2012 [4]	x86-64	Yes	Yes	9.0
Windows 10	x86-64	No	Yes	9.0

OS	CPU Architecture	Media Server Dedupe	Client Deduplication	Minimum NetBackup Level
Windows 8.1	x86-64	No	Yes	9.0
Solaris 11 [5]	x86-64	Yes	Yes	9.0
Solaris 11 [5]	SPARC	Yes	Yes	9.0
AIX 7.2	POWER	No	Yes	9.0
AIX 7.1	POWER	No	Yes	9.0
HP-UX 11.31	IA64	No	Yes	9.0

1. See the File System Compatibility table for support details regarding the Windows 2019 NTFS data deduplication feature, and the ReFS file system.
2. NetBackup 9.0 requires SuSE Linux Enterprise Server 12 SP3 or later versions
3. See the File System Compatibility table for support details regarding the Windows 2016 NTFS data deduplication feature, and the ReFS file system.
4. See the File System Compatibility table for support details regarding the Windows 2012 NTFS data deduplication feature, and the ReFS file system.
5. ZFS file system is not supported as a backend storage location for a MSDP disk pool.

File System Compatibility

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.

OS	Versions	CPU Architecture	File System	ACL	Other Extended Attributes or Named Data Streams	Notes / Exceptions
AIX	7.1, 7.2	POWER	VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
AIX	7.1	POWER	GPFS 3.5, GPFS 4.1, GPFS 4.1.1, GPFS 4.2, GPFS 4.2.2	Yes	Yes	GPFS metadata is supported in NetBackup (ACLs, EAs, StoragePools, and Replication). During backup of migrated file data housed on GPFS, retrieval of that data will be triggered from storage. NetBackup version 9.0 enables support to skip premigrated and migrated filesystem data. Refer: https://www.veritas.com/support/en_US/article.100046593 GPFS support for AIX OS, visit < https://www.ibm.com/docs/en/STXKQY/pdf/archived_support.pdf?cp >
AIX	7.2	POWER	GPFS 3.5, GPFS 4.1, GPFS 4.1.1, GPFS 4.2, GPFS 4.2.2, GPFS 5.1.3, GPFS 5.1.4, GPFS 5.1.6	Yes	Yes	GPFS metadata is supported in NetBackup (ACLs, EAs, StoragePools, and Replication). During backup of migrated file data housed on GPFS, retrieval of that data will be triggered from storage. NetBackup version 9.0 enables support to skip premigrated and migrated filesystem data. Refer: https://www.veritas.com/support/en_US/article.100046593 GPFS support for AIX OS, visit < https://www.ibm.com/docs/en/STXKQY/pdf/archived_support.pdf?cp >
AIX	7.3	POWER	GPFS 5.1.3, GPFS 5.1.4	Yes	Yes	GPFS metadata is supported in NetBackup (ACLs, EAs, StoragePools, and Replication). During backup of migrated file data housed on GPFS, retrieval of that data will be triggered from storage. NetBackup version 9.0 enables support to skip premigrated and migrated filesystem data. Refer: https://www.veritas.com/support/en_US/article.100046593 GPFS support for AIX OS, visit < https://www.ibm.com/docs/en/STXKQY/pdf/archived_support.pdf?cp >
AIX	7.1, 7.2, 7.3	POWER	JFS/JFS2	Yes	No	
CentOS	7, 8	x86-64	Ext2, Ext3, Ext4, XFS, VxFS, Lustre 2.12.5	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - Lustre Filesystem is not supported on CentOS 5 and 6
Debian GNU/Linux	9, 10, 11	x86-64	Ext2, Ext3, Ext4, XFS, JFS	Yes	Yes	XFS and JFS support starts from Debian 9
HP-UX	11.31	IA64	Base JFS or UFS	Yes	Yes	

OS	Versions	CPU Architecture	File System	ACL	Other Extended Attributes or Named Data Streams	Notes / Exceptions
HP-UX	11.31	IA64	VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
NeoKylin Linux Advanced Server	7.0	x86-64	Ext2, Ext3, Ext4	Yes	Yes	- Update 2 and later
NeoKylin Linux Advanced Server	6.0	x86-64	Ext2, Ext3, Ext4	Yes	Yes	- Update 7 and later
Mac OS X	10.8, 10.9, 10.10	x86-64	HFS/HFS+	Yes	Yes	- Resource forks supported. - HFS compression is not supported when restoring files; data is restored in uncompressed format.
Oracle Linux	7, 8	x86-64	Ext2, Ext3, Ext4, XFS, VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. For Oracle Enterprise Linux 8.0, XFS Copy-On-Write feature and VxFS is not supported.
Red Hat	7, 8	POWER	Ext2, Ext3, Ext4, XFS	Yes	Yes	Supported from Red Hat Enterprise Linux version 7.2 and above. XFS Copy-On-Write feature is not supported.
Red Hat	7, 8	x86-64	Ext2, Ext3, Ext4, XFS, VxFS, Lustre 2.12.5	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1 - For Red Hat Enterprise Linux 8.0, XFS Copy-On-Write feature and VxFS is not supported. - Lustre Filesystem is not supported on RedHat Enterprise Linux 5 and 6
Red Hat	7, 8	x86-64	GPFS 4.1, GPFS 4.1.1, GPFS 4.2, GPFS 5.0.4, GPFS 5.1.0, GPFS 5.1.5	Yes	Yes	GPFS metadata is supported in NetBackup (ACLs, EAs, StoragePools, and Replication). GPFS is not supported from Red Hat Enterprise Linux 7.3 as the default kernel version of Red Hat Enterprise Linux 7.3 is 3.10.0-514.el7.x86_64 and these file system versions supports until kernel 3.10.0-229.el7.x86_64 During backup of migrated file data housed on GPFS, retrieval of that data will be triggered from storage. NetBackup version 9.0 enables support to skip premigrated and migrated filesystem data. Refer: https://www.veritas.com/support/en_US/article.100046593
Red Hat	6	x86-64	GPFS 3.5, GPFS 4.1, GPFS 4.1.1, GPFS 4.2	Yes	Yes	GPFS metadata is supported in NetBackup (ACLs, EAs, StoragePools, and Replication). During backup of migrated file data housed on GPFS, retrieval of that data will be triggered from storage. NetBackup version 9.0 enables support to skip premigrated and migrated filesystem data. Refer: https://www.veritas.com/support/en_US/article.100046593
Red Hat	7, 8	x86-64	GFS2	Yes	No	
Red Hat	6, 7	z/Architecture	Ext2, Ext3	No	Yes	
Solaris	11	SPARC	UFS, ZFS, VxFS	Yes	Yes	- ZFS file system is not supported as a backend storage location for an MSDP disk pool.
Solaris	11	x86-64	UFS, ZFS	Yes	Yes	- ZFS file system is not supported as a backend storage location for an MSDP disk pool.
SUSE SLES	12 [1]	POWER	Ext2, Ext3, Ext4, ReiserFS, XFS, BTRFS	Yes	Yes	Supported from SUSE Linux Enterprise Server version 12 SP4 and above.

OS	Versions	CPU Architecture	File System	ACL	Other Extended Attributes or Named Data Streams	Notes / Exceptions
SUSE SLES	15	POWER	Ext2, Ext3, Ext4, XFS, BTRFS	Yes	Yes	Supported from SUSE Linux Enterprise Server version 12 SP4 and above. ReiserFS is not supported with SUSE Linux Enterprise Server 15. < https://documentation.suse.com/sles/15-SP4/single-html/SLES-storage/index.html#sec-filestems-major-reiser >
SUSE SLES	12 [1]	x86-64	Ext2, Ext3, Ext4, ReiserFS, XFS, BTRFS, Lustre 2.12.5	Yes	Yes	BTRFS filesystem with sub-volumes and snapshots are supported NetBackup Primary Server installation on a BTRFS filesystem is not supported. Lustre Filesystem is not supported on SuSE Linux Enterprise Server Version 15 and above
SUSE SLES	15	x86-64	Ext2, Ext3, Ext4, XFS, BTRFS	Yes	Yes	BTRFS filesystem with sub-volumes and snapshots are supported NetBackup Primary Server installation on a BTRFS filesystem is not supported. Lustre Filesystem and ReiserFS is not supported with SUSE Linux Enterprise Server 15. < https://documentation.suse.com/sles/15-SP4/single-html/SLES-storage/index.html#sec-filestems-major-reiser >
SUSE SLES	12 [1]	z/Architecture	Ext2, Ext3, Ext4, ReiserFS, XFS, BTRFS	No	Yes	BTRFS filesystem with sub-volumes and snapshots are supported EA is not supported on SUSE 12 SP2
SUSE SLES	15	z/Architecture	Ext2, Ext3, Ext4, XFS, BTRFS	No	Yes	BTRFS filesystem with sub-volumes and snapshots are supported NetBackup Primary Server installation on a BTRFS filesystem is not supported. Lustre Filesystem and ReiserFS is not supported with SUSE Linux Enterprise Server 15. < https://documentation.suse.com/sles/15-SP4/single-html/SLES-storage/index.html#sec-filestems-major-reiser >
Ubuntu	18.04, 18.10, 19.04, 19.10, 22.04, 23.04	x86-64	Ext2, Ext3, Ext4, XFS, GFS2	Yes	Yes	
Ubuntu	16.04	x86-64	Ext2, Ext3, Ext4	Yes	Yes	
Ubuntu	22	x86-64	GPFS 5.1	Yes	Yes	
Windows	2012, 2012 R2, 2016, 2019, 8.1, 10	x86-64	NTFS	Yes	Yes	Regarding the Microsoft Windows Server data deduplication feature: - Optimized Backup occurs for NTFS deduplication volumes when possible. Per Microsoft design, any restore from Optimized Backup is non-optimized. This means, after restore, files are in non-optimized form until the next optimization is run by the OS schedule. Be sure adequate space is available for restore. - By design, TIR is not supported on NTFS deduplication volumes. - FlashBackup is not supported with NTFS deduplication volumes.
Windows	2012, 2012 R2, 2016, 2019	x86-64	ReFS	Yes	Yes	The ReFS file system is supported with the following caveats: - Installing the NetBackup primary, media server or client components on an ReFS volume is not supported. - Restoring files backed up from an NTFS file system to an ReFS file system is not supported. As a workaround, restore the files the NTFS file system, remove attributed not supported by ReFS and then copy the files to the ReFS volume. - MSDP cannot be installed on an ReFS volume. - FlashBackup is not supported with the ReFS file system

1. NetBackup 9.0 requires SuSE Linux Enterprise Server 12 SP3 or later versions

NetBackup Administration Consoles

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 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.

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
AIX 7.1, 7.2	POWER	Y	Y
HP-UX 11.31	IA64	Y [1]	Y
Redhat 7, 8	x64	Y	Y
Red Hat 7, 8	z/Architecture	Y	Y
Solaris 10, 11	SPARC	Y	Y
Solaris 10, 11	x64	Y	Y
SUSE Linux Enterprise Server 12 [2]	x64	Y	Y
SUSE Linux Enterprise Server 15	x64	Y	Y
SUSE Linux Enterprise Server 12 [2]	z/Architecture	Y	Y
SUSE Linux Enterprise Server 15	z/Architecture	Y	Y
Windows Server 2012, 2012 R2, 2016, 2019	x64	Y	Y
Windows 8.1	x64	Y	Y
Windows 10	x64	Y	Y
CentOS 7, 8	x64	Y	Y
Oracle Linux 7, 8	x64	Y	Y

1. The NetBackup Java user interface may not start in environments that run the HP-UX 11.31 operating system. To start properly, the Java user interface requires up-to-date patches to the HP-UX 11.31 operating system. Workaround: Before you launch the NetBackup Java user interface, you must install the HP-UX 11.31 patches that are required for Java™ 8.0 for the Quality Pack that you have installed on your system. For more information, see the following HP site: <ftp://ftp.hp.com/pub/softlib/hpux-java-patchinfo/index.html>

2. NetBackup 9.0 requires SuSE Linux Enterprise Server 12 SP3 or later versions

NetBackup in the Cloud

NetBackup now supports cloud-based Primary Servers and Media Servers as part of extending data protection into workloads in the cloud. For more information, see the "360 Data Management" <https://www.veritas.com/360.html?inid=us_veritas_home_trend_cloud> 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" <https://www.veritas.com/content/support/en_US/doc/NB_80_OSSCL> . For details on NetBackup minimum resource requirements, please refer to the "NetBackup Installation Guide" <https://www.veritas.com/content/support/en_US/doc/27801100-130536338-0/> . 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 <https://www.veritas.com/content/support/en_US/doc/CC_AWS_guide> and NetBackup in the Cloud - Guidelines for AWS Deployments <https://www.veritas.com/content/dam/Veritas/docs/briefs/NBU-Guidelines-for-AWS-Deployments.pdf> .

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	Veritas-AWS Cloud Management <https://www.veritas.com/solution/amazon-web-services>
Google	Veritas-GCP Cloud Management <https://www.veritas.com/solution/google-cloud-platform>
IBM	Veritas-IBM Cloud Management <https://www.veritas.com/solution/ibm-cloud>
Microsoft	Veritas-Microsoft Cloud Management <https://www.veritas.com/solution/microsoft-cloud>
Oracle	Veritas-Microsoft Cloud Management <https://www.veritas.com/solution/oracle-cloud>

NetBackup in the Cloud - Deployment Templates

Contents

[Amazon](#)

[Microsoft](#)

Amazon

This solution deploys a NetBackup Primary 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 Primary Server support	NetBackup Media Server support	Supported Locales / Regions
Red Hat Enterprise Linux	Veritas NetBackup for AWS (BYOL) < https://aws.amazon.com/marketplace/pp/B07N2F4PV7 >	Yes	Yes	All Locales

Microsoft

This solution deploys a NetBackup Primary 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 Primary Server support	NetBackup Media Server support	Supported Locales / Regions
Microsoft Windows Server	Veritas NetBackup on Azure Marketplace < https://azuremarketplace.microsoft.com/en-us/marketplace/apps/veritas.veritas-netbackup-8-s?tab=Overview >	Yes	Yes	All Locales

NetBackup IT Analytics Data Collector Compatibility

The below section contains Veritas NetBackup IT Analytics Data Collector supported OS versions.

ITA Version	Supported OS Version
11.4	<ul style="list-style-type: none">- Red Hat Enterprise Linux (RHEL) 7, 8, and 9- SUSE Linux Enterprise (SLES) 12 SP3, 12 SP4, 15 SP4- Windows Server 2012 R2, 2016, 2019, 2022- OEL 7, 8- CentOS 7
11.3	<ul style="list-style-type: none">- Red Hat Enterprise Linux (RHEL) 7, 8- SUSE Linux Enterprise (SLES) 12 SP3, 12 SP4, 15 SP4- Windows Server 2012 R2, 2016, 2019, 2022- OEL 7, 8- CentOS 7

NetBackup OpsCenter Backup Product Support

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

NetBackup OpsCenter Operating System Requirements

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 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
Oracle Linux 8	x86-64	Yes	No	No
Oracle Linux 7	x86-64	Yes	No	No
Red Hat Enterprise Linux 8	x86-64	Yes	No	No
Red Hat Enterprise Linux 7	x86-64	Yes	No	No
SUSE Linux Enterprise Server 12 [1]	x86-64	Yes	No	No
SUSE Linux Enterprise Server 15	x86-64	Yes	No	No
Windows 2019	x86-64	Yes	Yes	Yes
Windows 2016	x86-64	Yes	Yes	Yes
Windows 2012 R2	x86-64	Yes	Yes	Yes
Windows 2012	x86-64	Yes	Yes	Yes

1. NetBackup 9.0 requires SuSE Linux Enterprise Server 12 SP3 or later versions

NetBackup OpsCenter Web Browser Requirements

Web Browser	Versions	Notes
Microsoft Internet Explorer	<ul style="list-style-type: none"> - 7.x, 8.x, 9.0, 10.0, 11.0 - 32-bit and 64-bit 	<ul style="list-style-type: none"> - 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 when exporting reports, jobs, or auditing data from OpsCenter. - 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
Mozilla Firefox	<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.

SAN Media Server/SAN Client/FT Media Server

- 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 Primary 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 adapters.

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 Self Service Support

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
NetBackup Self Service 9.0 ,9.1	Windows Server 2012 R2 Windows Server 2016 Windows Server 2019	Microsoft SQL Server 2014 Microsoft SQL Server 2016 Microsoft SQL Server 2017 Microsoft SQL Server 2019 Azure SQL database Microsoft SQL Server on Amazon RDS

NetBackup Primary 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 primary 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 9.0, 9.1	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 9.0 NetBackup 9.0.0.1 NetBackup 9.1 [1] NetBackup 9.1.0.1 [2]	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 Appliance 4.0 NetBackup Appliance 4.1 NetBackup Virtual Appliance 3.0 FlexScale 1.3.1 FlexScale 2.1 [2]

1. NetBackup Self Service 9.0 with NetBackup 9.1 does not support protection of cloud asset
2. All NetBackup Triple dot releases are supported unless specified otherwise

VMware vCloud Director Compatibility

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

Self Service Versions	vCloud Director Versions
NetBackup Self Service 9.0, 9.1	5.5, 5.6, 8.0, 8.10, 8.20, 9.0, 9.1, 9.5 [1], 9.7 [1], 10.0 [1], 10.1 [1], 10.2 [1], 10.3 [1]

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]

Virtual Systems Compatibility

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) and VMware Cloud Foundation on Dell EMC VxRail is supported on NetBackup 9.0 and later versions.
- VMware HyperScale Partner- Azure VMware solution is supported on NetBackup 9.0 and later versions.
- Google Cloud VMWare Engine(GCVE) is supported on NetBackup 9.1 and later versions.
- Single File Recovery (agent-based and agentless) is supported with ext2, ext3, ext4, XFS, FAT, FAT32 and NTFS filesystem.
- RedHat Linux, SuSE Linux and Windows are supported as VMware Guest OS from NetBackup 9.0

NetBackup Versions	VDDK Versions	vSphere Versions	vCloud Director Versions	Backup/Restore Host Versions
9.0	7.0	vSphere 7.0, 7.0 U1, 7.0 U2, 7.0 U3 vSphere 6.7, 6.7 U1, 6.7 U2, 6.7 U3 vSphere 6.5, 6.5 U1, 6.5 U2, 6.5 U3 VMware vSAN 6.5, 6.6, 6.6.1, 6.7, 6.7 U1, 6.7 U2, 6.7 U3 VMware vSAN 7.0 , 7.0 U1, 7.0 U2, 7.0 U3 Refer VMware VDDK release notes URL below for additional information on supported vCenter and ESXi versions.	Service Provider Versions: 9.0, 9.1, 9.5, 9.7, 10, 10.1	All 64 bit only: Windows Server 2019, 2016, 2012 R2, 2012 Red Hat Enterprise Linux (RHEL) 7.7, 8.0 SUSE Linux Enterprise Server (SLES) 12SP5, 15SP1 CentOS 7.7
9.0.0.1	7.0	vSphere 7.0, 7.0 U1, 7.0 U2, 7.0 U3 vSphere 6.7, 6.7 U1, 6.7 U2, 6.7 U3 vSphere 6.5, 6.5 U1, 6.5 U2, 6.5 U3 VMware vSAN 6.5, 6.6, 6.6.1, 6.7, 6.7 U1, 6.7 U2, 6.7 U3 VMware vSAN 7.0 , 7.0 U1, 7.0 U2, 7.0 U3 Refer VMware VDDK release notes URL below for additional information on supported vCenter and ESXi versions.	Service Provider Versions: 9.0, 9.1, 9.5, 9.7, 10, 10.1	All 64 bit only: Windows Server 2019, 2016, 2012 R2, 2012 Red Hat Enterprise Linux (RHEL) 7.7, 8.0 SUSE Linux Enterprise Server (SLES) 12SP5, 15SP1 CentOS 7.7

NetBackup Versions	VDDK Versions	vSphere Versions	vCloud Director Versions	Backup/Restore Host Versions
9.1	7.0.2	vSphere 7.0, 7.0 U1, 7.0 U2, 7.0 U3 vSphere 6.7, 6.7 U1, 6.7 U2, 6.7 U3 vSphere 6.5, 6.5 U1, 6.5 U2, 6.5 U3 VMware vSAN 6.5, 6.6, 6.6.1, 6.7, 6.7 U1, 6.7 U2, 6.7 U3 VMware vSAN 7.0 , 7.0 U1, 7.0 U2, 7.0 U3 Refer VMware VDDK release notes URL below for additional information on supported vCenter and ESXi versions.	Service Provider Versions: 9.0, 9.1, 9.5, 9.7, 10, 10.1, 10.2, 10.3, 10.4	All 64 bit only: Windows Server 2019, 2016, 2012 R2, 2012 Red Hat Enterprise Linux (RHEL) 7.7, 8.0 SUSE Linux Enterprise Server (SLES) 12SP5, 15SP1 CentOS 7.7
9.1.0.1	7.0.2	vSphere 7.0, 7.0 U1, 7.0 U2, 7.0 U3 vSphere 6.7, 6.7 U1, 6.7 U2, 6.7 U3 vSphere 6.5, 6.5 U1, 6.5 U2, 6.5 U3 VMware vSAN 6.5, 6.6, 6.6.1, 6.7, 6.7 U1, 6.7 U2, 6.7 U3 VMware vSAN 7.0 , 7.0 U1, 7.0 U2, 7.0 U3 Refer VMware VDDK release notes URL below for additional information on supported vCenter and ESXi versions.	Service Provider Versions: 9.0, 9.1, 9.5, 9.7, 10, 10.1, 10.2, 10.3, 10.4	All 64 bit only: Windows Server 2019, 2016, 2012 R2, 2012 Red Hat Enterprise Linux (RHEL) 7.7, 8.0 SUSE Linux Enterprise Server (SLES) 12SP5, 15SP1 CentOS 7.7

- 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 Instant Access is not supported with VMware vSphere 7.0 U1, 7.0 U2 and 7.0 U3 on NetBackup 9.0, 9.0.0.1, 9.1.
- The EEB required for Instant Access with VMware vSphere 7.0 U1, 7.0 U2, and 7.0 U3 on 9.1.0.1 can be obtained from Veritas Technical Support.
- 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 9.0 and later versions support VMware Virtual Volumes (VVols)
- 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 7.0 Release Notes: <https://code.vmware.com/docs/11697/virtual-disk-development-kit-7-0-release-notes.>
- | | | | |
|------|-------|---------|--------|
| VDDK | 7.0.2 | Release | Notes: |
|------|-------|---------|--------|

<https://vdc-download.vmware.com/vmwb-repository/dcr-public/357c1280-36b1-4713-8587-8e3b0858b2a6/6e6dd894-bd49-48bb-86ea-f8bfcece8542/VDDK-702-ReleaseNotes.html>

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
- Primary and Media Server platform support as supported by the appropriate NBU release
- RedHat Linux, SuSE Linux , Oracle Linux and Windows are supported as Hyper-V Guest Operating System. Single File Recovery is supported with ext2, ext3, ext4, XFS, FAT, FAT32 and NTFS filesystem

NetBackup Versions	Hyper-V Server Versions	System Center Virtual Machine Manager Versions	Comments
9.0, 9.0.0.1	Hyper-V Server 2019 Hyper-V Server 2016 Hyper-V Server 2012 R2	NetBackup Add-In and Hyper-V Intelligent Policy for <ul style="list-style-type: none"> • SCVMM 2012 R2 • SCVMM 2016 • SCVMM 2019 	<ul style="list-style-type: none"> • Hyper-V Intelligent Policy supported only for Hyper-V Server 2012 R2 (and associated updates), Hyper-V Server 2016, Hyper-V Server 2019. • VHD and VHDX support
9.1, 9.1.0.1	Hyper-V Server 2019 Hyper-V Server 2016 Hyper-V Server 2012 R2	NetBackup Add-In and Hyper-V Intelligent Policy for <ul style="list-style-type: none"> • SCVMM 2012 R2 • SCVMM 2016 • SCVMM 2019 	<ul style="list-style-type: none"> • Hyper-V Intelligent Policy supported only for Hyper-V Server 2012 R2 (and associated updates), Hyper-V Server 2016, Hyper-V Server 2019. • VHD and VHDX support

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 on windows Server Semi-Annual Channel builds are supported with partial functionality.

Refer technote for additional details <<https://www.veritas.com/docs/100041472>>

Nutanix AOS versions and backup host

Supported Nutanix AOS versions and backup host operating systems

NetBackup for Nutanix AHV protects Nutanix AHV virtual machines by integrating with Nutanix APIs for Data Protection. All minor versions of Nutanix AOS are supported unless specifically noted in the table below.

NetBackup Versions	Nutanix AOS Versions	Backup/Restore Host Versions	Notes
9.0 9.0.0.1	5.10 5.11 5.15 5.17 5.18 5.19 5.20 6.0 6.1 6.5 6.7 6.8 6.10	NetBackup 9.0 and later versions supported x86-64 platforms of Red Hat Enterprise Linux and SUSE Linux Enterprise Server will work as backup hosts.	"Hypervisor" policy type to be used for protecting Nutanix AHV on supported AOS versions
9.1 9.1.0.1	5.10 5.11 5.15 5.17 5.18 5.19 5.20 6.0 6.1 6.5 6.7 6.8 6.10	NetBackup 9.1 and later versions supported x86-64 platforms of Red Hat Enterprise Linux, SUSE Linux Enterprise Server and Windows Server will work as backup hosts.	"Hypervisor" policy type to be used for protecting Nutanix AHV on supported AOS versions

Note the following:

- Starting NetBackup 9.0, BigData policy cannot be used to protect Nutanix AHV VMs. Refer: https://www.veritas.com/content/support/en_US/doc/127664414-145604802-0/index
- > • To backup other hypervisors like VMware ESX or a Hyper-V on a Nutanix Acropolis cluster, please see VMware ESX or a Hyper-V SCL for support matrix. To backup VMware ESX or a Hyper-V on a Nutanix Acropolis cluster, use a VMware policy or a Hyper-V, respectively.
- NetBackup supports installation of the backup host in a virtual machine.
- English only AHV is supported.
- Backups are Crash And Application Consistent.
- AHV Community Edition is not supported.
- Veritas recommends having NetBackup Media server as Backup-Host. For Nutanix Backup Hosts earlier than NetBackup version 9.0, please refer: https://download.veritas.com/resources/content/live/OSVC/100046000/100046611/en_US/nbu_80_scl.html?__gda__=1609411610_3ee50aa4e31e9ef3fb902c7b37a12612
- > • Backup of VMs having volume groups is not supported.
- Backup and recovery of the entire virtual machine for all guest operating systems is supported.
- NetBackup 9.1 and later versions support file and folder recovery.

Red Hat Virtualization Compatibility

Supported RedHat Virtualization (RHV) Versions

- NetBackup currently supports only x86-64 editions of RHV servers.

NetBackup Versions	RHV Versions
9.0	4.2, 4.3, 4.4

Note:

- Support of Red Hat Virtualization Manager and Hypervisor starts from version 4.2.7
- NetBackup 9.0 supported x86-64 platforms of Microsoft Windows Server, Red Hat Enterprise Linux and SUSE Linux Enterprise Server will work as backup hosts.
- Application consistent backup needs RHV Guest Agent.
- Pass through disk cannot be backed up by RHV agent. Please install NetBackup client inside the VM to protect data on such disks.
- RHV 4.3.3 has issue in restoring thick provision disk. Till fix is available from RedHat, please restore disk as thin provision.
- VMs in suspended state cannot be protected.
- Cinder storage is currently not supported.
- Backup of VMs based on a template (thin clone) may fail to delete snapshots created by the backup job. If such a condition is encountered, then subsequent backups would fail. This issue is related to a race condition in RHV Manager versions 4.2.x, 4.3.0 to 4.3.3. Red Hat recommends upgrading RHV Manager to 4.3.4 before protecting such VMs.

Refer: <https://access.redhat.com/support/policy/updates/rhev>

>

OpenStack Compatibility

Supported OpenStack Versions

Distributions which include the following OpenStack versions are supported.

Supported Hypervisor: KVM

NetBackup Versions	OpenStack Revisions	Backup/Restore Host Versions
9.0	Mitaka, Newton, Ocata, Pike, Queens, Rocky, Stein, Train, Victoria, Ussuri	NetBackup 9.0 supported x86-64 platforms of Red Hat Enterprise Linux and SUSE Linux Enterprise Server will work as backup hosts.

Kubernetes Compatibility

NetBackup supports all vendor GA updates, Major or Minor service packs and Patch Releases unless stated otherwise in the tables below.

Supported Storage Providers

For supported storage providers details. Refer:

NetBackup Versions	Kubernetes Distributions	Velero
9.1	<ul style="list-style-type: none"> • Google Kubernetes Engine (GKE) (1.18.*-1.20.*) • RedHat OpenShift (4.4.* - 4.7.*) • VMware vSphere with Tanzu - TKG Management Cluster + K8s Guest cluster - 1.19 • Vanilla Kubernetes 1.21 	<ul style="list-style-type: none"> • 1.5.3 through 1.6.0

Continous Data Protection for VMware

NetBackup Versions	ESXi Version	Veritas IO-filter version	Notes
9.1	• 6.7 or later	<ul style="list-style-type: none"> • 4.0 • Download link for ESXi 6.x : https://sort.veritas.com/public/vrp/400/vtstap-offline-bundle.zip > • Download link for ESXi 7.x : https://sort.veritas.com/public/vrp/400/vsphere7/VMW-esx-7.0.0-VTS-vtstap-4.0.0-00.zip > 	<ul style="list-style-type: none"> • Datastores supported: VMFS, NFS, vVol, vSAN • File-system supported for CDP gateway: XFS,EXT3,EXT4,NFS, VxFS • RedHat Linux supported version: 7.7 or later versions • Media Server as CDP gateway: NetBackup 9.1 supported x86-64 platforms of Red Hat Enterprise Linux(Appliance is not supported)

VMware vRealize Compatibility

Veritas NetBackup plug-in for VMWare vRealize Version	VMWare vRealize Orchestrator Versions	NetBackup Versions
1.1	7.5 7.6	NetBackup 9.0
2.0	8.3 8.4	NetBackup 9.0 NetBackup 9.0.0.1

Note:

- NetBackup 9.0 and later versions support Backup Now for VMWare VM, AWS VM and AWS Volumes
- NetBackup 9.0 and later versions support API Key Authentication in addition to standard Authentication.This is recommended

Azure Stack HUB

Supported Azure Stack versions and backup host operating systems

NetBackup protects Azure Stack virtual machines by integrating with Azure Stack APIs for Data Protection. All minor versions of Azure Stack are supported unless specifically noted in the table below.

NetBackup Versions	Azure Stack HUB Versions
9.0	2002
9.1	2002 2008 2102

Note the following:

- NetBackup 9.0 and later versions supports Managed disk
- NetBackup 9.0 and later versions supports restore unmanaged disk VMs in Managed Disk VM format
- NetBackup 9.0 and later versions supports restore unmanaged disk in Managed Disk format
- Backups are Crash Consistent.

Azure Stack HCI

Azure Stack HCI is protected by WMI method from NetBackup Policy Type Hyper-V.

Cluster Configuration	NetBackup Versions	Notes
Microsoft Azure Stack HCI - 23H2, 21H2, 22H2	9.1	

XBSA Extensible Client

NetBackup XBSA is an Open Group Technical Standard that defines a Backup Services API (XBSA). The XBSA specification consists of source procedure calls, type definitions, data structures, and return codes. Client applications use these to be able to use a backup service, Veritas NetBackup, and to store and manage data.

The NetBackup XBSA is an API to NetBackup developed to the XBSA specifications. The NetBackup XBSA interface has extended the XBSA specifications to make it easier to use and enhance performance when used with NetBackup.

DataStore policy The DataStore policy is an existing NetBackup policy that you can also use with applications communicating with the NetBackup Backup Services API interface (XBSA). The policy lets an application create, query, retrieve, and delete data objects using NetBackup for data storage.

Partner / 3rd Party produced XBSA Agents Note: Creation, maintenance, and support for a specific agent is provided by the producing company. All companies producing XBSA agents are members of the Veritas Technology Ecosystem (VTE) program, and any XBSA Agent listed on the NetBackup Master Compatibility List must meet certain technical requirements prior to achieving certification. Each producing company is solely responsible and liable for the operation, testing, distribution, and maintenance of the certified XBSA agent.

NetBackup Support is available to customers who have a valid support and maintenance entitlement and may include collaborative handoff to VTE technology partners when dealing with support issues that pertain to XBSA agents. Also, review the NetBackup Primary Compatibility List for currently supported versions of NetBackup and its components.

Database Software	Vendor	Version	Note
XBSA Extensible Client	TmaxTibero	Tibero 6,7	N/A
XBSA Extensible Client	IBM	N/A	Agent included with IBM Integrated Analytics
XBSA Extensible Client	Transwarp Technology	Argo DB	N/A

End of Life (EOL) announcement and platforms no longer supported by NetBackup

The following Operating System and Application Versions/Architectures in the 9.x.x versions of NetBackup will be End of Life.

Platform and Application Versions	CPU Architecture	OS Bits	NetBackup	Last NetBackup Release Supported
CentOS 8	ALL	64	Primary, Media and Client	9.1
Solaris 10, 11	ALL	64	Primary and Media	9.1
Red Hat Enterprise Linux 7.0, 7.1, 7.2, 7.3	ALL	64	Client, Primary and Media Server	9.1