



Netapp Interoperability Matrix

Storage Solution : SnapManager for Microsoft SQL Server (SMSQL)

NetApp® FC, FCoE, iSCSI and NAS (NFS) Storage System Interoperability

The NetApp Interoperability Matrix (IMT) defines the components and versions that have been qualified and which can be used to construct FC/FCoE, iSCSI and NFS configurations that are supported end-to-end by NetApp. NetApp partners with operating system, I/O stack and hardware component vendors during their development and release cycles in order to provide support and interoperability at or within certain periods following the vendors general availability release. For support of configurations not included in the NetApp Interoperability Matrix, including pre-general-availability releases, or to obtain support for your particular configuration via the NetApp Product Variance Request (PVR) process, please contact your NetApp account team or partner. If you experience technical issues with NetApp storage systems in configurations not listed in the NetApp Interoperability Matrix, NetApp provides support per the SUPPORT SERVICES TERMS - <http://www.netapp.com/us/how-to-buy/stc.aspx> ; resolution may require changing the configuration to one currently listed in the matrices or working with your account team or partner through the PVR process.

NetApp provides complimentary host utilities for FC/FCoE, iSCSI, and NFS storage systems that ensure proper integration with host operating system, I/O stack and host hardware components, and use of the NetApp host utilities is required for generally supported configurations within the NetApp Interoperability Matrix. The applicable host utilities are specified in the rows and notes of the host operating system interoperability matrices.

Non-disruptive Upgrade of Data ONTAP

Non-disruptive upgrade of Data ONTAP and other system-level components is supported for SAN and NFS environments.

Minor NDU (within a Data ONTAP version family) is supported in Data ONTAP 6.5.3 and later.

Major NDU (between Data ONTAP version families) is supported in Data ONTAP 7.0.6 and later to Data ONTAP 7.2.3 and later for Data ONTAP 7.2.x target releases.

Major NDU is supported from Data ONTAP 7.1.2 and later to Data ONTAP 7.2.3 and later for Data ONTAP 7.2.x target releases.

Major NDU is supported from Data ONTAP 7.2.3 and later to Data ONTAP 7.3 GA and later for Data ONTAP 7.3.x target releases.

NDU Documentation - For complete information about non-disruptive upgrade, see the Data ONTAP Upgrade Guide for either Data ONTAP 7.2.5.1 or 7.3, available on NOW at <http://now.netapp.com/NOW/knowledge/docs/ontap/rel7251/> and <http://now.netapp.com/NOW/knowledge/docs/ontap/rel73/>

NetApp storage systems are built on a common operating system infrastructure - Data ONTAP®. Unless otherwise noted in the matrices, support by the Data ONTAP operating system is the criterion used to determine whether a system configuration is qualified in a particular environment rather than the particular hardware model of the system. All system models that run a qualified Data ONTAP version are equivalent for support purposes. The NetApp storage systems below run the Data ONTAP operating system and support the FC, iSCSI and NFS protocols (list refers to stand-alone and high-availability storage systems). Refer to the Host Operating System matrices above for details about Data ONTAP versions qualified with a particular host.

NetApp Upgrade Advisor - an online tool available on the NOW (NetApp on the Web) site for all systems with a valid support contract that are configured to send AutoSupport messages. When you submit your system identification and target release, the Upgrade Advisor compares AutoSupport data about your system to known requirements and limitations of the target release and generates an upgrade plan (and optionally a back-out plan) with recommended preparation and execution procedures. The Upgrade Advisor not only dramatically simplifies the process of qualifying your environment for a successful upgrade; the automated mechanism significantly reduces the potential for human error. In conjunction with the Upgrade Advisor, NetApp best practice for NDU strongly recommends review of the Data ONTAP Upgrade Guide and Release Notes. For more information, see AutoSupport home on NOW at <http://now.netapp.com/NOW/asuphome/>

End of Support

At its discretion, NetApp will continue to provide support for existing installations of vendor end-of-support configurations even after general support has ended from the applicable vendor. This support will be limited in accordance with the support model provided by the vendor in which an upgrade may be the only solution. Support of NetApp storage systems and software is provided according to NetApp's standard warranty and support lifecycle

Copyright

Â© 2017 NetApp, Inc. All rights reserved. Specifications subject to change without notice. NetApp, Data ONTAP, FlexVol, SnapDrive, SnapManager, SnapMirror, and SnapVault are registered trademarks and Network Appliance, NOW, and Snapshot are trademarks of NetApp, Inc. in the U.S. and other countries. Microsoft, Windows, and Windows NT are registered trademarks of Microsoft Corporation. Linux is a registered trademark of Linus Torvalds. Intel is a registered trademark of Intel Corporation. Solaris and Sun are trademarks of Sun Microsystems, Inc. Oracle is a registered trademark of Oracle Corporation. Symantec is a registered trademark and Veritas is a trademark of Symantec Corporation or its affiliates in the U.S. and other countries. UNIX is a registered trademark of The Open Group. All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such.

Third Party Hypervisors

Third Party Hypervisors are hypervisors that are not specifically listed in the IMT and are not specifically qualified by NetApp. This includes hypervisors running in public cloud hyperscaler environments such as Amazon Web Services, Microsoft Azure, etc.

- NetApp supports the use of third party virtualization solutions (both public cloud and on-premise hypervisors) when connectivity to the NetApp target is established within the GuestOS via iSCSI and where the Guest OS adheres to supported IMT configurations that are found by querying the Guest OS as the Host OS component.

- The third party vendor of the Hypervisor product owns overall connectivity and configuration management for access to the Guest OS's.

Description of NetApp support services are set forth at <http://www.netapp.com/us/services-support/services/operations/services-descriptions.aspx>

Search Criteria

Solution; SnapManager for Microsoft SQL Server (SMSQL)
SnapManager SnapManager for Microsoft SQL Server 7.2.2 (64-bit x64);

SnapManager for Microsoft SQL Server (SMSQL)

Name	Status	Foot notes	SnapManager	SnapDrive	Host OS (OS)	Host Application	Host Clustering
20160726-000835355	Supported	Info: 629,1721,1723,3174,3196,42 74,4414,4415,5101,6972,697 3,7089,7853,7930,8587	SnapManager for Microsoft SQL Server 7.2.2 (64-bit x64)	SnapDrive 7.1.4 for Windows (64-bit, x64); SnapDrive 7.1.3 for Windows (64-bit, x64)	Microsoft Windows Server 2012 R2 SE (64-bit, x64); Microsoft Windows Server 2012 R2 DCE (64-bit, x64)	Microsoft SQL Server 2016 SE SP1 (64-bit, x64); Microsoft SQL Server 2016 SE (64-bit, x64); Microsoft SQL Server 2016 EE SP1 (64-bit, x64); Microsoft SQL Server 2016 EE (64-bit, x64); Microsoft SQL Server 2014 SE SP2 (64-bit, X64); Microsoft SQL Server 2014 SE SP1 (64-bit, X64); Microsoft SQL Server 2014 SE (64-bit, x64); Microsoft SQL Server 2014 EE SP2 (64-bit, X64); Microsoft SQL Server 2014 EE SP1 (64-bit, X64); Microsoft SQL Server 2014 EE (64-bit, x64); Microsoft SQL Server 2012 SE SP3 (64-bit, x64); Microsoft SQL Server 2012 SE SP2 (64-bit, x64); Microsoft SQL Server 2012 SE SP1 (64-bit, x64); Microsoft SQL Server 2012 SE (64-bit, x64); Microsoft SQL Server 2012 EE SP3 (64-bit, x64); Microsoft SQL Server 2012 EE SP2 (64-bit, x64); Microsoft SQL Server 2012 EE SP1 (64-bit, x64); Microsoft SQL Server 2012 EE (64-bit, x64); Microsoft SQL Server 2008 SE SP4 (64-bit, X64); Microsoft SQL Server 2008 SE SP3 (64-bit, x64); Microsoft SQL Server 2008 SE R2 SP3 (64-bit, X64); Microsoft SQL Server 2008 SE R2 SP2 (64-bit, X64); Microsoft SQL Server 2008 EE SP4 (64-bit, X64); Microsoft SQL Server 2008 EE SP3 (64-bit, x64); Microsoft SQL Server 2008 EE R2 SP3 (64-bit, X64); Microsoft SQL Server 2008 EE R2 SP2 (64-bit, X64)	Microsoft Failover Clustering

Name	Status	Foot notes	SnapManager	SnapDrive	Host OS (OS)	Host Application	Host Clustering
20160726-000527088	Supported	Info: 7111	SnapManager for Microsoft SQL Server 7.2.2 (64-bit x64)	SnapDrive 7.1.4 for Windows (64-bit, x64); SnapDrive 7.1.3 for Windows (64-bit, x64)	Microsoft Windows Server 2016 SE 64-bit, x64; Microsoft Windows Server 2016 DCE 64-bit, x64; Microsoft Windows Server 2012 SE (64-bit, x64); Microsoft Windows Server 2012 R2 SE (64-bit, x64); Microsoft Windows Server 2012 R2 DCE (64-bit, x64); Microsoft Windows Server 2012 DCE (64-bit, x64)	Microsoft SQL Server 2016 SE SP1 (64-bit, x64); Microsoft SQL Server 2016 SE (64-bit, x64); Microsoft SQL Server 2016 EE SP1 (64-bit, x64); Microsoft SQL Server 2016 EE (64-bit, x64); Microsoft SQL Server 2014 SE SP2 (64-bit, X64); Microsoft SQL Server 2014 SE SP1 (64-bit, X64); Microsoft SQL Server 2014 SE (64-bit, x64); Microsoft SQL Server 2014 EE SP2 (64-bit, X64); Microsoft SQL Server 2014 EE SP1 (64-bit, X64); Microsoft SQL Server 2014 EE (64-bit, x64); Microsoft SQL Server 2012 SE SP3 (64-bit, x64); Microsoft SQL Server 2012 SE SP2 (64-bit, x64); Microsoft SQL Server 2012 SE SP1 (64-bit, x64); Microsoft SQL Server 2012 SE (64-bit, x64); Microsoft SQL Server 2012 EE SP3 (64-bit, x64); Microsoft SQL Server 2012 EE SP2 (64-bit, x64); Microsoft SQL Server 2012 EE SP1 (64-bit, x64); Microsoft SQL Server 2012 EE (64-bit, x64)	Microsoft Failover Clustering

Name	Status	Foot notes	SnapManager	SnapDrive	Host OS (OS)	Host Application	Host Clustering
20160726-000030285	Supported	Info: 629,1721,1723,3174,3196,42 74,4414,4415,5101,6972,697 3,7089,7853,7930,8587	SnapManager for Microsoft SQL Server 7.2.2 (64-bit x64)	SnapDrive 7.1.4 for Windows (64-bit, x64); SnapDrive 7.1.3 for Windows (64-bit, x64)	Microsoft Windows Server 2016 SE 64-bit, x64; Microsoft Windows Server 2016 DCE 64-bit, x64; Microsoft Windows Server 2012 SE (64-bit, x64); Microsoft Windows Server 2012 DCE (64-bit, x64); Microsoft Windows Server 2008 SE (SP2 64-bit, x64); Microsoft Windows Server 2008 R2 SE (SP1 64-bit, x64); Microsoft Windows Server 2008 R2 EE (SP1 64-bit, x64); Microsoft Windows Server 2008 R2 DCE (SP1 64-bit, x64); Microsoft Windows Server 2008 EE (SP2 64-bit, x64); Microsoft Windows Server 2008 DCE (SP2 64-bit, x64)	Microsoft SQL Server 2016 SE SP1 (64-bit, x64); Microsoft SQL Server 2016 SE (64-bit, x64); Microsoft SQL Server 2016 EE SP1 (64-bit, x64); Microsoft SQL Server 2016 EE (64-bit, x64); Microsoft SQL Server 2014 SE SP2 (64-bit, X64); Microsoft SQL Server 2014 SE SP1 (64-bit, X64); Microsoft SQL Server 2014 SE (64-bit, x64); Microsoft SQL Server 2014 EE SP2 (64-bit, X64); Microsoft SQL Server 2014 EE SP1 (64-bit, X64); Microsoft SQL Server 2014 EE (64-bit, x64); Microsoft SQL Server 2012 SE SP3 (64-bit, x64); Microsoft SQL Server 2012 SE SP2 (64-bit, x64); Microsoft SQL Server 2012 SE SP1 (64-bit, x64); Microsoft SQL Server 2012 SE (64-bit, x64); Microsoft SQL Server 2012 EE SP3 (64-bit, x64); Microsoft SQL Server 2012 EE SP2 (64-bit, x64); Microsoft SQL Server 2012 EE SP1 (64-bit, x64); Microsoft SQL Server 2012 EE (64-bit, x64); Microsoft SQL Server 2008 SE SP4 (64-bit, X64); Microsoft SQL Server 2008 SE SP3 (64-bit, x64); Microsoft SQL Server 2008 SE R2 SP3 (64-bit, X64); Microsoft SQL Server 2008 SE R2 SP2 (64-bit, X64); Microsoft SQL Server 2008 EE SP4 (64-bit,X64); Microsoft SQL Server 2008 EE SP3 (64-bit, x64); Microsoft SQL Server 2008 EE R2 SP3 (64-bit, X64); Microsoft SQL Server 2008 EE R2 SP2 (64-bit, X64); Microsoft SQL Server 2005 SE (SP4 64-bit, x64); Microsoft SQL Server 2005 EE (SP4 64-bit, x64)	Microsoft MSCS; Microsoft Failover Clustering

Info

Note ID	Text
3174	"SnapManager for SQL Server supports the following non-english Windows OS & SQL Servers" - Japanese - German
7111	SnapManager 7.0 for SQL Server supports SQL Server 2012 databases hosted on SMB 3.0 shares starting with cDOT 8.2.

Netapp Interoperability Matrix

8587	SMSQL 7.2.2P1 and onwards will Support VSC 6.2 and onwards version for VMDK Support.
5101	SnapManager for SQL Server supports Pass through LUNs on Microsoft Hyper-V Server 2008 R2 and on Virtual Machines (RDM LUNs).
7853	SMSQL 7.2 supports VSC 4.2.2 version for VMDK Support
7089	SnapManager for SQL Server supports a maximum cluster size of eight nodes with Windows Server 2008, Windows Server 2008 R2 and Windows Server 2012 Operating Systems.
4274	SnapManager for SQL Server supports all the ESX version as SDW supports
629	If the host system is running SQL Server 2005, Microsoft Data Access Components (MDAC) 2.8 SP1 must be installed. Windows Server 2003 SP1 and SP2 include MDAC 2.8 SP2, which is required for SQL Server 2005 on Windows Server 2003.
1721	SnapManager for SQL Server is supported on a Guest OS on the following virtualization products: VMware ESX 3.0.2 Update 1 plus patches (ESX-1004210 and 1004211) and later or ESX 3.5 Update 1 and Microsoft 2008 Hyper-V
7930	SMSQL 7.2 Supports VSC 6.0 version for VMDK Support.
1723	SMSQL supports protocol, NTAP-OS, Host-Multipath, and Host-Cluster that are indicated in SnapDrive release.
3196	Snapmanager for SQL Server supports IPV6 in Windows Server 2008 configurations
6972	SnapManager for SQL Server is supported on Microsoft Windows Server 2012 guest OS created on Microsoft 2008 Hyper-V & Microsoft 2012 Hyper-V.
6973	SnapManager for SQL Server can manage both SQL Server 2008 & SQL Server 2012 instances in the same host.
4414	SnapManager for SQL Server does not support RBAC with Snapdrive for Windows 6.2
4415	SnapManager for SQL Server can manage both SQL Server 2005 & 2008 instances in the same host