

Compatibility and Support Information

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1. Introduction

The purpose of this document is to outline how the Nasuni Filer and the Nasuni Management Console are compatible with, and provide support for, various technologies.

2. Compatibility and Support

The Nasuni Filer and the Nasuni Management Console are compatible with the following technologies, or support the following technologies.

2.1. Virtualization platforms

The Nasuni Filer supports the VMware ESXi, Windows Server Hyper-V, Microsoft Azure, and Amazon EC2 virtualization platforms.

2.1.1. Hyper-V virtualization server platform

The Nasuni Filer supports the Microsoft Windows Server 2008 R2 SP1 Hyper-V and Microsoft Windows Server 2012 and 2012 R2 Hyper-V virtualization server platforms.

2.1.2. VMware ESXi using VMFS-5 virtualization server platforms

The Nasuni Filer supports the VMware ESXi 5.5 and above virtualization server platforms.

The Nasuni Filer also supports VMDKs larger than 2 TB.

2.1.3. Azure cloud storage service

The Nasuni Filer supports the Microsoft Azure virtualization service.

2.1.4. EC2 cloud storage service

The Nasuni Filer supports the Amazon EC2 virtualization service.

3. Filers

3.1. Filer properties

3.1.1. Cache size

The following table lists the maximum cache size (by platform) that is supported by the Nasuni Filer.

Virtualization Platform	Maximum Cache Size
VMware ESXi 5.5 and above NOT using VMFS-5	2 TB
VMware ESXi 5.5 and above	62 TB (using VMFS-5) 64 TB (using physical Raw Disk Mapping (RDM) (aka "pass through disks")) *
Microsoft Hyper-V	2 TB (Server 2008) 1 EB (using "pass through disks") (Server 2008) 64 TB (using VHDX) (Server 2012) 64 TB (Server 2012 R2)
Microsoft Azure	1 TB
Amazon EC2	1 TB



Note: Caches that are created less than 16 TB can be resized, but never larger than 16 TB. Caches that are created greater than or equal to 16 TB cannot be resized.

3.1.2. CPU cores

The following table lists the maximum number of CPU cores (by virtual platform) that are supported by the Nasuni Filer.

Virtualization Platform	Maximum CPU Cores
VMware ESXi 6.0	128
VMware ESXi 5.5	64
Microsoft Hyper-V	4 (Server 2008 R2) 64 (Server 2012 and Server 2012 R2)

3.1.3. Physical (pass through) disks

The Nasuni Filer supports physical (pass through) disks for larger cache sizes, up to the maximum disk size supported by the Hyper-V or VMware hosts.

3.1.4. RAM

The following table lists the maximum RAM (by virtual platform) that is supported by the Nasuni Filer.

Virtualization Platform	Maximum RAM
VMware ESXi 6.0	4 TB (actually 4080 GB)
VMware ESXi 5.5	1 TB
Microsoft Hyper-V	64 GB (Server 2008 R2) 1 TB (Server 2012) 4 TB (Server 2012 R2)



3.2. Clients

3.2.1. CIFS

3.2.1.1. CIFS protocol

The Nasuni Filer supports the CIFS protocol, also called SMBv1.

3.2.1.2. SMBv2

The Nasuni Filer supports SMBv2.

3.2.1.3. SMBv3

The Nasuni Filer supports SMBv3.

3.2.1.4. Samba

The Nasuni Filer supports Samba 3.6 and higher for SMB access.

3.2.2. iSCSI

3.2.2.1. iSCSI protocol

The Nasuni Filer supports the iSCSI protocol.

3.2.2.2. Blocks

The Nasuni Filer supports SAN (iSCSI) connectivity (aka blocks).

3.2.2.3. CHAP authentication

The Nasuni Filer supports CHAP (Challenge-Handshake Authentication Protocol) authentication for SAN (iSCSI) volumes.

3.2.2.4. SAN volumes

The Nasuni Filer supports SAN (iSCSI) volumes.



3.2.3. NFS

3.2.3.1. NFS protocol

The Nasuni Filer supports the NFS protocol. The Nasuni Filer supports NFS v3.

3.2.4. FTP/SFTP

3.2.4.1. FTP/SFTP protocols

The Nasuni Filer supports the FTP and SFTP protocols, including anonymous access.

3.2.5. Mobile

3.2.5.1. Mobile devices

The Nasuni Filer Mobile Access service supports iOS and Android devices.

3.2.5.2. Desktop Client

The Nasuni Filer supports a Mobile Access-based Desktop Client for the following platforms:

- Windows.
- Linux.
- OSX.

3.2.6. Web

3.2.6.1. Web browsers

The Nasuni Filer supports Web browsers including the following:

- Mozilla Firefox: Latest version.
- Internet Explorer: Latest two versions (not compatibility mode).
- Safari: Latest version.
- Google Chrome: Latest version.



3.2.7. Microsoft Windows

The Nasuni Filer is compatible with Microsoft Windows.

The Nasuni Filer supports Windows clients.

3.2.7.1. Windows operating systems

The Nasuni Filer supports the following Windows operating systems:

Windows Server Operating Systems

Operating System	Version	Service Packs
Windows Server 2008 R2	Standard	N/A
Windows Server 2012	Standard	N/A
Windows Server 2012 R2	Standard	N/A

Windows Desktop Operating Systems

Operating System	Version	Service Packs
Windows 7	Professional	1
Windows 8.1	Professional	N/A
Windows 10	Professional	N/A

3.2.7.2. Windows Previous Versions

The Nasuni Filer supports Windows Previous Versions.

3.2.7.3. Active Directory

The Nasuni Filer supports Active Directory.

3.2.7.3.1. Trusted domains of multiple Active Directory servers

The Nasuni Filer supports trusted domains of multiple Active Directory servers.



3.2.7.3.2. Workgroup name

Workgroup names (entered when joining Active Directory domains) should be Windows NT-compatible.

3.2.7.4. Distributed File System (DFS)

The Nasuni Filer supports the Distributed File System Namespaces (DFS-N).

3.2.8. Mac OS X clients

The Nasuni Filer supports the Mac OS X operating system versions 10.9 (Mavericks), 10.10 (Yosemite), and 10.11 (El Capitan).

3.2.9. Linux clients

The Nasuni Filer supports clients with Linux kernel versions 2.6 and higher.

3.2.10. Other clients

Nasuni does not specifically test with clients other than Windows, Mac OS X, and Linux. For example, Nasuni does not specifically test with HPUX, Solaris, or AIX clients. However, other clients that follow the standards for the protocols that Nasuni does support should work properly.

3.3. VSS

The Volume Snapshot Service, or Volume Shadow Copy Service, or VSS, is a technology included in Microsoft Windows that allows taking manual or automatic backup copies or snapshots of data, even if it has a lock, on a specific volume at a specific point in time over regular intervals. It is implemented as a Windows service called the Volume Shadow Copy service.

The Nasuni VSS Hardware Provider supports creating shadow copies of iSCSI volumes for third-party Windows applications.



3.4. Security

3.4.1. Encryption key management

The Nasuni Filer encrypts data using the OpenPGP encryption protocol. The 256-bit Advanced Encryption Standard (AES-256) encryption is the default encryption.

Encryption key files (used by the Nasuni Filer and the Nasuni Management Console) should be OpenPGP-compatible.

3.4.1.1. IDEA cipher

The Nasuni Filer supports the IDEA cipher on uploaded encryption keys.

3.4.2. LDAP (Lightweight Directory Access Protocol) with Kerberos

The Nasuni Filer supports Directory Services using LDAP (Lightweight Directory Access Protocol) with Kerberos for authentication.

3.5. Networks

3.5.1. HTTPS proxy

The Nasuni Filer and the Nasuni Management Console support HTTPS proxies.

3.5.2. MTU settings

The Nasuni Filer supports MTU settings above 1500.

3.5.3. NICs

The Nasuni Filer supports multiple NICs for redundancy.

3.6. Other

3.6.1. SNMP

The Nasuni Filer supports SNMP v3 as well as SNMP v1/v2c.



3.6.2. SSD

Nasuni's Generation 4 hardware platforms include solid-state drives (SSD).

3.6.3. TLS (Transport Level Security) security

The Nasuni Filer supports TLS (Transport Level Security) security for email.

Nasuni Filers running the OS2 version of the Nasuni Filer base operating system support TLSv1.

Nasuni Filers running the OS7 version of the Nasuni Filer base operating system support TLSv1, TLSv1.1, and TLSv1.2. The Nasuni Filer negotiates the appropriate version of TLS, depending on what the connecting client supports.

The version of the Nasuni Filer base operating system, such as OS7, appears on the bottom right of each page of the Nasuni Filer user interface.

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Technical Support is available 24/7/365 for full production clients.

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