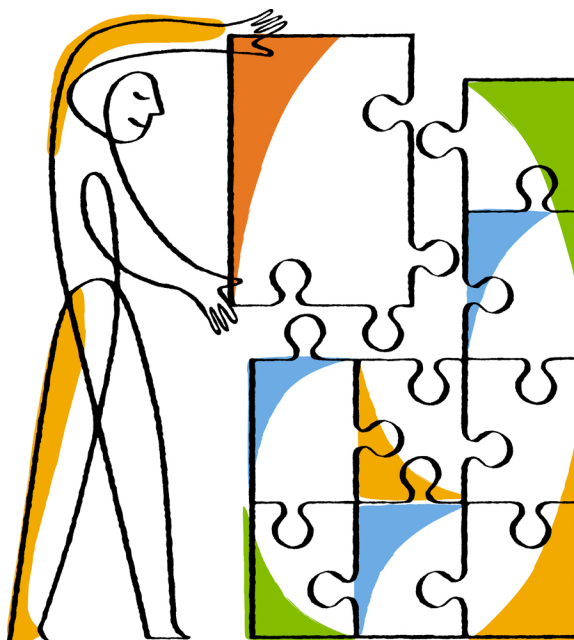




Virtual Storage Console 2.0.1 for Citrix® XenServer®

Release Notes



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Contents

- Updates to these release notes 4**
- Product overview 5**
- New in this release 6**
 - Upgrade notes 6
 - Verifying support for your configuration in the IMT 7
- Known limitations 8**
- Known issues 9**
- Documentation errors and omissions 10**
- How to get help and find more information 11**
- Copyright information 12**
- Trademark information 13**
- How to send your comments 14**

Updates to these release notes

NetApp occasionally issues updates to release notes between product releases as new information becomes available. Review the updates for VSC 2.0.1 for Citrix XenServer carefully.

March 2014 update

The following new features were added to the 2.0.1 release:

- Support for Data ONTAP 8.2 and Data ONTAP 8.2.1.
- Support for XenServer 6.2.
- Storage repositories created with VSC 2.0.1 for Citrix XenServer can still be managed with VSC if they have been detached and reattached to XenServer.
- Several new privileges have been added to support Role Based Access Control (RBAC) operations.

Product overview

Virtual Storage Console (VSC) for Citrix XenServer software is a single XenCenter Client plug-in that provides storage controller configuration, storage repository provisioning, and virtual machine (VM) cloning for Citrix XenServer environments with storage repositories backed by NetApp storage systems.

VSC for Citrix XenServer provides the ability to orchestrate common storage and VM deployment tasks to:

- Achieve operational agility and significantly reduce deployment, management, and troubleshooting time
- Ensure compliance with Citrix XenServer that utilize NetApp storage systems provisioning and management best practices
- Achieve multiple levels of storage efficiency to ensure storage cost savings
- Support rapid, efficient, mass VM provisioning to meet changing business needs

VSC for Citrix XenServer offers fully orchestrated, XenServer administration-driven provisioning and cloning capabilities:

- Storage controller discovery and configuration
- Network File System (NFS) and block Fiber Channel (FC) and iSCSI (Internet Small Computer System Interface)-based storage repository provisioning, deduplication, resizing, and destruction

Note: Resizing is available for NFS-based storage repositories only.

- Rapid VM cloning (in existing and new NFS-based storage repositories only) for virtual desktops and virtual servers powered by NetApp FlexClone
- Instant availability of cloned VMs in the Citrix XenDesktop for placement into catalogs
- Exporting NFS storage repositories to an entire subnet

Additional features include:

- Role-based access control (RBAC) support, visible through the user interface
- Host management
 - Apply NetApp-recommended values when working with block-based storage repositories
 - Display host information and storage usage

New in this release

The VSC 2.0.1 for Citrix XenServer release includes added platform and device support.

- Support for Data ONTAP 8.2 and Data ONTAP 8.2.1.
- Support for XenServer 6.2.
- Storage repositories created with VSC 2.0.1 Citrix XenServer can still be managed with VSC if they have been detached and reattached to XenServer.
- New privileges have been added to support Role Based Access Control (RBAC) operations, for Data ONTAP operating in 7-Mode **Create clones** (minimum role):
 - For all supported versions of Data ONTAP:
 - api-volume-list-info-iter-start
 - api-volume-list-info-iter-next
 - api-volume-list-info-iter-end
 - For Data ONTAP 8.2 and Data ONTAP 8.2.1 only:
 - api-license-v2-list-info
 - api-feature-status-list-info

Upgrade notes

Upgrade notes describe important changes in support between the last release of VSC for Citrix XenServer and this one, including any deprecated features. Review this information carefully before upgrading VSC for Citrix XenServer. Make sure to check the NetApp Interoperability Matrix (IMT) for the most up-to-date information about supported configurations.

Supported upgrade path

You can upgrade to VSC 2.0.1 for Citrix XenServer from version 1.0 and later.

Reapply Multipath settings after upgrade

After upgrading to VSC 2.0.1, you must reapply the Multipath settings to your XenServer hosts. After you reapply the settings, the XenServer hosts must be rebooted (for rebooting information, refer to XenServer documentation).

Verifying support for your configuration in the IMT

You can use the NetApp Interoperability Matrix (IMT) to verify VSC for Citrix XenServer support for your configuration: Data ONTAP software, host operating system, and so on. Verify your configuration before you install VSC 2.0.1 for Citrix XenServer.

Steps

1. Go to support.netapp.com/matrix.
2. If Virtual Storage Console (Citrix) is not the selected Storage Solution, click **Change** and select it under the **Software > Management Software > Server Suite** category.



3. In the **Component Explorer** pane, select each component you want to verify.
You are prompted to add the components to the worksheet. Click **Add**.
Tip: Select the parent of a set of components to select all its children.
4. When you are satisfied with your choices, click **Show Results**.
5. The IMT lists each supported configuration.
 - Scroll across a configuration to view the supported components and any notes or alerts for the configuration.
 - Click the configuration name to display complete information for supported components, including support history and NetApp policies and guidelines for the selected Storage Solution category.

Tip: If no results are returned for your configuration, click **Feedback** in the upper right corner of the IMT.

Known limitations

Known limitations identify platforms, devices, or functions that are not supported by VSC 2.0.1 for Citrix XenServer, or that do not interoperate correctly with VSC. Review these limitations carefully.

The following are known limitations:

- Because Data ONTAP 8.2 and later only support volumes with the Fractional Reserve set to either 0% or 100%, VSC sets its **Fractional Reserve** User Preference setting to 0% for values from 0% to 99%, and sets it to 100% when the value is 100% for provisioned storage repositories on Data ONTAP 8.2 and later.
- Before upgrading XenServer to a newer version, you must manually back up the `lunmap.json` file (`/var/lib/vsc/lunmap.json`). For more information about backing up the file, refer to the XenServer documentation.

Known issues

There are no known issues in this release.

Documentation errors and omissions

Review these errors and omissions in the published VSC 2.0.1 for Citrix XenServer documentation carefully.

VSC for Citrix XenServer Installation and Administration Guide is missing content regarding methods for creating Data ONTAP RBAC roles

The VSC for Citrix XenServer *Installation and Administration Guide* RBAC content is missing information about methods for creating Data ONTAP RBAC roles. In addition, the guide refers to ZAPIs as being required to set RBAC roles. It should refer to privileges, not ZAPIs.

The following should be added after the first paragraph in the *Role Based Access Control for VSC for Citrix XenServer* section:

There are multiple methods for creating the roles, including the following:

- The RBAC User Creator for Data ONTAP, which is posted on the NetApp Communities Forum (<https://communities.netapp.com/docs/DOC-19074>)

Note: NetApp recommends that you use the RBAC User Creator for Data ONTAP.

- OnCommand System Manager, which can be downloaded for Windows platforms
- The command-line interface (CLI), using the `security login` set of commands

Each role has a user name and password pair associated with it. These are the role's credentials. If you do not log in using these credentials, you cannot access the storage operations associated with the role.

How to get help and find more information

The NetApp Support Site provides access to troubleshooting tools, product documentation, and technical assistance. You can use NetApp Community forums to connect with peers, and the NetApp Library to access technical reports and white papers.

Resource	Description
<i>NetApp Support Site</i>	Access troubleshooting tools, product documentation, and technical support assistance.
<i>NetApp Community public forum - Virtualization</i>	Connect with peers, ask questions, exchange ideas, find resources, and share best practices.
<i>NetApp Library</i>	Access technical reports, white papers, and other documents.

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