



NexentaStor vCenter Web Client Plugin Installation and Administration Guide 1.0

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This document applies to the following product versions:

Product	Versions supported
NexentaStor vCenter Web Client Plugin™	1.0
VMware vSphere™ Server	5.1. or later
VMware vSphere™ Web Client	5.1. or later

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Preface

This documentation presents information specific to Nexenta products. The information is for reference purposes and is subject to change.

Intended Audience

This documentation is intended for Network Storage Administrators and assumes that you have experience with data storage concepts, such as iSCSI, FC, NFS, SMB, and High Availability.

Documentation History

The following table lists the released revisions of this documentation.

Product Versions Applicable to this Documentation: Documentation Revision History

Revision	Date	Description
3000-vc_plug-1.0-000048-A	October, 2014	GA

Contacting Support

Choose a method for contacting support:

- Visit the Nexenta customer portal <http://nexenta.force.com/customerportal> or partner portal <http://nexenta.force.com/partnerportal>. Log in and browse a knowledge base.

Comments

Your comments and suggestions to improve this documentation are greatly appreciated. Send any feedback to doc.comments@nexenta.com and include the documentation title, number, and revision. Refer to specific pages, sections, and paragraphs whenever possible.

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Introduction to NexentaStor vCenter Web Client Plugin

This section includes the following topics:

- [About NexentaStor vCenter Web Client Plugin](#)
- [Browser Compatibility](#)

About NexentaStor vCenter Web Client Plugin

NexentaStor vCenter Web Client Plugin, aka Web Client Plugin, is an extension to the VMware vSphere that enables management of the NexentaStor NFS folders and iSCSI LUNs as datastores in the VMware vSphere Web Client.

NexentaStor vCenter Web Client Plugin provides the following features available through the VMware vSphere Web Client:

- Provisioning of NexentaStor LUNs as NFS and iSCSI datastores
- Capability to create a single snapshot and a snapshot schedule for a NexentaStor datastore
- Reverting NexentaStor datastores to the snapshots created using the NexentaStor vCenter Web Client Plugin
- Cloning from a snapshot
- Monitoring the NexentaStor datastores I/O statistics

See Also:

- [Browser Compatibility](#)

Browser Compatibility

NexentaStor vCenter Web Client Plugin supports the following web-browsers:

- Microsoft Internet Explorer™ 8, 9 (64-bit), and 10.
- Mozilla Firefox™ 24 or later.
- Google Chrome™ 30 or later.

Note: Adobe Flash Player™ 11.5.0 or later must be installed in your web-browser.

See Also:

- [About NexentaStor vCenter Web Client Plugin](#)

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Installing NexentaStor vCenter Web Client Plugin

This chapter includes the following topics:

- [Prerequisites](#)
- [Installing NexentaStor vCenter Web Client Plugin](#)
- [Uninstalling NexentaStor vCenter Web Client Plugin](#)

Prerequisites

Before installing NexentaStor vCenter Web Client Plugin, verify that your environment includes the following components:

- NexentaStor 4.x.
You must create at least one volume that you will use as datastore to provision NFS folders or iSCSI LUNs.
- Microsoft Windows Server 2003/2008 R2 with VMware vSphere™ 5.1/5.5
Java Runtime Environment (JRE)™ v1.7 must be installed.
- VMware vCenter Server 5.1/5.5 and Web Client™ 5.1/5.5

See Also:

- *NexentaStor Installation Guide*
- [VMware vSphere 5.1 Documentation Center](#)
- [Browser Compatibility](#)

Configuring vSphere Web Client

To make vSphere Web Client work correctly you must modify the `webclient.properties` file.

❖ *To configure vSphere Web Client:*

1. Go to `C:\ProgramData\VMware\vSphere Web Client`.
2. Open the `webclient.properties` file in any source code editor, such as Notepad.
3. Add the following line to the file:

```
HTTP.DOWNLOAD=true  
allowHttp=true
```

4. Save the file.

Note: You can discard the changes after the Web Client Plugin icon appears in the VMware Web Client.

Installing NexentaStor vCenter Web Client Plugin

Install NexentaStor vCenter Web Client Plugin on Microsoft Windows Server, on which the vSphere server is installed, using the Web Client Plugin installation file.

❖ *To install the NexentaStor vCenter Web Client Plugin:*

1. From the Nexenta web-site, download the NexentaStor vCenter Web Client Plugin archive.
2. Log in to the Microsoft Windows Server where the vCenter Server is installed.
3. Upload the NexentaStor vCenter Web Client Plugin archive to Microsoft Windows Server.
4. Run the Web Client Plugin installer file.
The Windows Installation Wizard starts.
5. Click **Next**.
6. Read and verify the environment prerequisites.
7. Accept the terms of License Agreement; then click **Next**.
8. Verify the installation folder; then click **Next**.
9. Type the vCenter credentials and press **Next**.

The plugin is now registered as vCenter Managed Object Browser (MOB).

10. Click **Next**.
11. Click **Install**.
The Web Client Plugin is being installed. It may take some time.
12. Click **Finish**.
13. Extract the `Nexenta.zip` to `C:\Program Files\VMware\Infrastructure\vsphereWebClient\plugin-packages\nexenta`.
The `Nexenta.zip` file is located in the plugin installation folder.
14. Copy the `vgs.properties` file to `C:\Program Files\VMware\Infrastructure\vsphereWebClient\server`.
15. Restart the VMware vSphere web client service:

1. In Windows Server, click **Start > Services**.
2. In the list of Services, right-click on the **VMware vSphere Web Client**.
3. Select **Restart**.

16. Proceed to [Basic System Operations](#).

Uninstalling NexentaStor vCenter Web Client Plugin

You uninstall NexentaStor vCenter Web Client Plugin by running the plugin Microsoft installer file and following the prompts. You cannot uninstall the plugin using Microsoft Windows uninstall tool.

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Basic System Operations

This section includes the following topics:

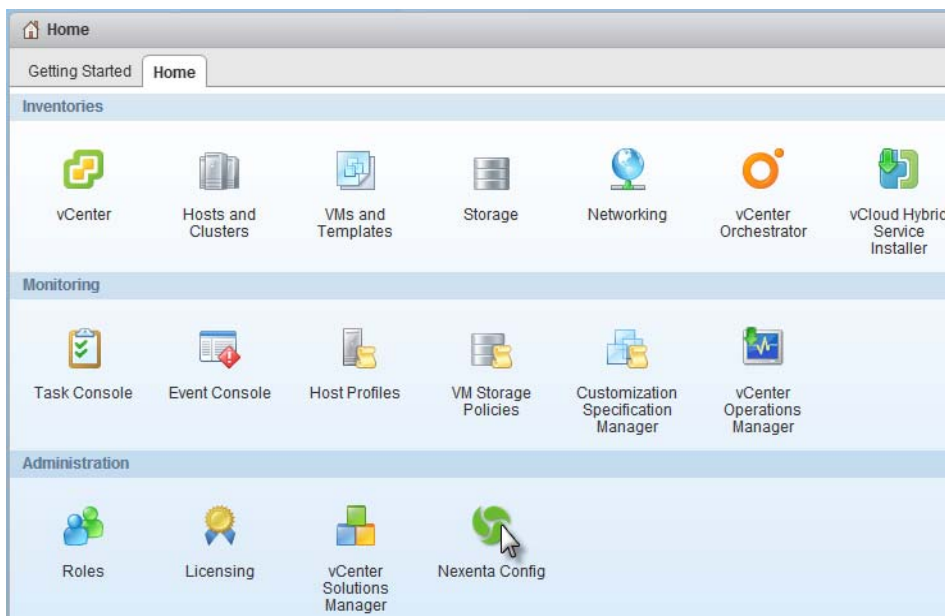
- [About Managing NexentaStor vCenter Web Client Plugin](#)
- [Adding NexentaStor Configuration to VMware vSphere](#)
- [Modifying NexentaStor Configuration](#)
- [Deleting a NexentaStor Configuration](#)
- [Adding a VMware vCenter Configuration](#)
- [Adding a NexentaStor Datastore](#)
- [Viewing the NexentaStor Datastore Summary](#)

About Managing NexentaStor vCenter Web Client Plugin

You manage NexentaStor vCenter Web Client Plugin using VMware vSphere Web Client. After Installation, click the **Home** tab and select the **Nexenta Config** icon.

The following screenshot shows the NexentaStor vCenter Web Client Plugin initial configuration icon in VMware vSphere Web Client:

Figure 3-1: NexentaStor vCenter Web Client Plugin



Adding NexentaStor Configuration to VMware vSphere

Before you can view details about NexentaStor, you must add the NexentaStor configuration file to VMware vSphere.

❖ *To add a NexentaStor configuration to VMware vSphere, using VMware vSphere Web Client:*

1. Click the **Home** tab.
2. Select the **Nexenta Config** icon.
3. In the **Nexenta Config** tab, click **Add Nexenta Config**.
4. Select a protocol from the list:
 - HTTPS
 - HTTP
5. Type the NexentaStor IP address.

Note: Type the IP address used for NFS or iSCSI.

6. Type the NexentaStor Web UI port number.
Default port number for NexentaStor 4.x is 8457.
7. Type NexentaStor user and password.

Note: The NexentaStor user must have privileges to execute REST API requests.

8. Click **Create**.

Modifying NexentaStor Configuration

When you change NexentaStor parameters, such as IP address, port number, protocol, or credentials, you must update the NexentaStor vCenter Web Client Plugin configuration.

❖ *To modify NexentaStor configuration, using VMware vSphere Web Client:*

1. Click the **Home** tab.
2. Select the **Nexenta Config** icon.
3. In the **Action** column, click the **Update Nexenta Config** icon.
4. Modify the required parameters.
5. Click **Update**.

Deleting a NexentaStor Configuration

You can delete unused NexentaStor configurations.

❖ *To delete a NexentaStor configuration, using VMware vSphere Web Client:*

1. Click the **Home** tab.
2. Select the **Nexenta Config** icon.
3. In the **Action** column, click the **Delete Nexenta Config** icon.
4. In the confirmation dialog window, click **Delete**.

Adding a VMware vCenter Configuration

You must add a link to the SDK of the VMware vSphere that you use, so it can communicate with the NexentaStor RESTful API through the NexentaStor vCenter Web Client Plugin.

You cannot delete VMware vSphere configurations.

❖ *To add a VMware vCenter configuration, using VMware vSphere Web Client:*

1. Click the **Home** tab.
2. Select the **Nexenta Config** icon.
3. Select **VMware Config**.

[Nexenta Config](#) | [VMware Config](#) | [About Plug-in](#)

+ Add VMware Config

VMware Configuration List			
S.No.	Root Context	Username	Actions
1	https://192.168.10.10/sdk	root	

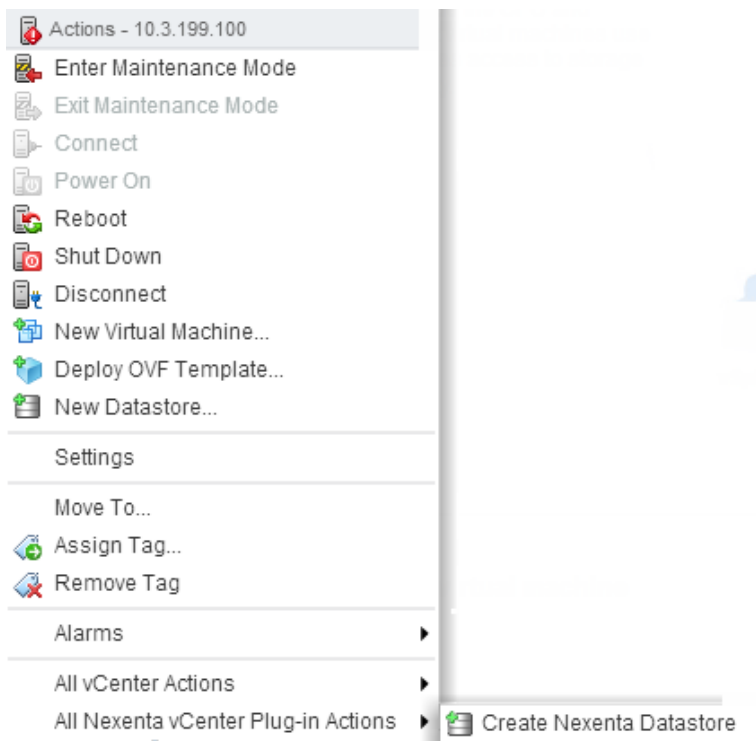
4. In the **VMware Config** tab, click **Add VMare Config**.
5. Select a protocol:
 - HTTPS
 - HTTP
6. Type the VMware vCenter IP address.
7. Type the VMware vSphere credentials .

Adding a NexentaStor Datastore

You can add a NexentaStor NFS or iSCSI datastore. To provision a NexentaStor datastore, create a volume on the NexentaStor appliance for iSCSI datastore or a folder for NFS datastore.

❖ *To add a NexentaStor datastore, using VMware vSphere Web Client:*

1. Click **Home > Hosts and Clusters**.
2. Right-click on an ESXi host on which you want to create the datastore.
3. Select **All NexentaStor vCenter Web Client Plugin Actions > Create Nexenta Datastore**.



4. In the **Create Datastore** window, specify:

Datastore Type	Select NFS Datastore for NFS or SAN Datastore for NexentaStor zvols provisioned through iSCSI. You must create a volume on the NexentaStor appliance before you can provision them as datastores for SAN Volume .
Host	An IP address of the VMware ESXi host on which the plugin creates the NexentaStor datastore.
Nexenta Host	The IP address of the NexentaStor appliance from which you want to provision the datastore.

Datastore Name	Descriptive name of the datastore.
Group Name	(SAN Datastore only) Name of the Target Group on the NexentaStor appliance. You can create a new group using this field.
Volume/Folder	A dataset that you want to provision as datastore. Select a folder for NFS folder and volume for SAN Volume.
Quota	(NAS Datastore only) Amount of space that users can use in the folder. Type 0 for None.
Disk size	Allocate disk size for this datastore.
Block Size	(SAN Datastore only) Size of blocks for files in a dataset.
Record Size	(NAS Datastore only) A data unit that is used in copy-on-write mechanism.
Compression	Type of compression: <ul style="list-style-type: none"> • on • off • gzip 1 — 9
Sync	Setting for synchronous requests: <ul style="list-style-type: none"> • Standard — synchronous requests are written to the intent log and all devices are flushed. No caching. • Always — every file system transaction is flushed to the stable storage. Using this option may have negative impact to the datastore performance. • Disabled — file system transactions are written to the stable storage with the next DMU transaction. Using this option provides the highest performance, however, it may result in data loss.

5. Click **Create**.

Viewing the NexentaStor Datastore Summary

After you add a NexentaStor datastore to VMware vSphere Server, you can view information about this datastore in **Summary Information**.

❖ *To view the NexentaStor Datastore Summary, using VMware vSphere Web Client:*

1. Click **Home > Hosts and Clusters**.
2. Double-click on VMware ESXi on which you created the NexentaStor datastore.
3. Click the **Storage** icon.
4. Select the NexentaStor datastore.

The following information is displayed for the NexentaStor datastore:

Storage Properties	
Storage Name	test
VMFS Diskname	naa.600144f05532b279000
Host IP	10.3.199.100
Volume Size	1G
Space Used by Dataset	108K
Space Used by Children	0
Space Used by Snapshot	0
Total Snapshots	0
Block Size	32K
Compression	on
Sync Type	Standard
Creation Date	Thu Apr 17 22:58 2014

Deploying Linux Version

This section includes the following topics:

- [About Linux Virtual Appliance](#)
- [Deploying the vCenter Server Linux Virtual Appliance](#)
- [Setting the vCenter Server Linux Virtual Appliance](#)
- [Configuring Basic Settings](#)
- [Installing NexentaStor vCenter Web Client Plugin on VMware vCenter Server Linux Virtual Appliance](#)
- [Uninstalling NexentaStor vCenter Web Client Plugin from VCVA](#)

About Linux Virtual Appliance

The VMware vCenter Server Linux Virtual Appliance (VCSA) is a pre-installed virtual machine that provides vCenter Server and associated services.

You must have the following components pre-installed:

- VMware vSphere 5.1 or later
You deploy VCSA on VMware ESXi. Therefore, you must have VMware vSphere 5.1 or later installed in your environment
- Java SE Runtime Environment 7 must be installed and set in the PATH system variable and environment variable on vCenter Virtual Appliance

Deploying the vCenter Server Linux Virtual Appliance

You deploy the vCenter Server Linux Virtual Appliance using the .ovf template.

❖ *To deploy the vCenter Server Linux Virtual Appliance, using vSphere Client:*

1. Click **File > Deploy OVF Template**.
2. Select the VCSA .ovf file.
3. Click **Open**.
4. Skip to **Name and Location**.
5. Type the name of the appliance.
6. Click **Next**.

7. Select a datastore on which to deploy the appliance.
8. Click **Next**.
9. Select **Disk Format**.
10. Click **Next**.
11. Review the settings and click **Finish**.

The deployment starts.

Setting the vCenter Server Linux Virtual Appliance

After you install the VCSA, you must configure some of appliance parameters.

❖ *To set the vCenter Server Linux Virtual Appliance:*

1. In vSphere Client, start the VCSA.
2. Select the VCSA and click the **Console** tab.
3. Configure network and time zone parameters.
4. Remember the IP address of the appliance.
5. Open a browser.
6. Type the address of the VCSA and port number.

Example:

```
https://<ip_of_vcsa:5480>
```

7. Then prompted, accept the certificate security message.
8. Type root credentials.
Default password is vmware.
9. Read and accept the terms of End User License Agreement.
vCenter configuration starts. It may take some time.
Monitor the progress in the vSphere Console.
10. Proceed to [Configuring Basic Settings](#).

Configuring Basic Settings

You must complete tasks in [Deploying the vCenter Server Linux Virtual Appliance](#) and [Setting the vCenter Server Linux Virtual Appliance](#) before you can configure basic settings.

After console displays the default screen, continue configuring the appliance.

❖ *To configure basic settings:*

1. Log in to the VCSA:

1. Open a browser and type the IP address of VCSA with port number.

Example:

```
https://<ip_of_vcsa>:5480
```

2. Type root credentials.

3. Configure Network settings

1. Click the **Network** tab.
2. Click Address.
3. Modify hostname and other parameters as needed.
4. Click **Save Settings**.

4. Configure Authentication settings:

1. Click **vCenter Server > Authentication**.
2. Configure the Active Directory settings as needed.
3. Click Save Settings

5. Configuring Database

You can use an existing database or embedded vCenter database. If you use an existing database, you must know the database information, such as database server IP address and so on.

1. Click the **Database** tab.
2. Select the type of the database:
 - Embedded
 - Oracle
3. If you selected **Embedded** database, do not enter any details. Instead, click **Test Settings**.
4. This operation may take some time.
5. If you selected **Oracle**, fill in the corresponding fields.
6. Click **Save Settings**.

6. Reboot the VCSA:

1. Select the **System** tab.
2. Click **Reboot**.

After the reboot, VCSA initiates the database and the vpxd daemon.

Installing NexentaStor vCenter Web Client Plugin on VMware vCenter Server Linux Virtual Appliance

After you complete the tasks described in [Deploying the vCenter Server Linux Virtual Appliance](#), [Setting the vCenter Server Linux Virtual Appliance](#), and [Configuring Basic Settings](#), install NexentaStor vCenter Web Client Plugin on the VCVA.

❖ *To install NexentaStor vCenter Web Client Plugin on VCVA:*

1. Log in to the VCVA console.
2. Back up the `/var/lib/vmware/vsphere-client/webclient.properties`:

```
# cp /var/lib/vmware/vsphere-client/webclient.properties /var/lib/vmware/vsphere-client/webclient.properties.src
```
3. Open the `webclient.properties` file for editing:

```
# vi /var/lib/vmware/vsphere-client/webclient.properties
```
4. Add the following lines to the file:

```
HTTP.DOWNLOAD=true
allowHttp=true
```
5. Save the file:

```
:wq!
```
6. Copy the `NexentaPlugin.zip` file to the `/opt` directory.
7. Extract the plugin from the `NexentaPlugin.zip` archive to the `/opt` directory:

```
# unzip /opt/NexentaPlugin.zip -d /opt
```
8. From the plugin folder, execute the `install.bash` file:

```
# bash /opt/NexentaPlugin /install.bash
```

The plugin is being installed and registered.
9. Log in to VCVA GUI.
10. Restart the vSphere web-client service.

Starting and Stopping the NexentaStor vCenter Web Client Plugin Service

You may need to start or stop the NexentaStor vCenter Web Client Plugin service.

❖ *To start the plugin service:*

1. Type:

```
# service nexenta-service start
```

❖ *To stop the plugin service:*

1. Type:

```
# service nexenta-service stop
```

Uninstalling NexentaStor vCenter Web Client Plugin from VCVA

You can uninstall NexentaStor vCenter Web Client Plugin from VCVA anytime after installation. You will not be able to add new NexentaStor datastores to VMware vCenter after that.

❖ *To uninstall NexentaStor vCenter Web Client Plugin from VCVA:*

1. Type:

```
# bash /opt/NexentaPlugin/uninstall.bash
```

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Additional System Operations

This section includes the following topics:

- [About Datastore Monitoring](#)
- [Monitoring NexentaStor Datastores using Web Client Plugin](#)
- [About Datastore Snapshot Management](#)
- [Viewing the List of Datastore Snapshots](#)
- [Creating a Datastore Snapshot](#)
- [Cloning a Volume from a Datastore Snapshot](#)
- [Restoring a Datastore Snapshot](#)
- [Deleting a Datastore Snapshot](#)
- [Viewing the list of Snapshot Services](#)
- [Creating a Snapshot Service](#)
- [Enabling a Snapshot Service](#)
- [Disabling a Snapshot Service](#)
- [Deleting a Snapshot Service](#)

About Datastore Monitoring

Monitoring the performance of datastores is an important part of network and storage analysis that assist in determining and eliminating bandwidth issues. Typically, datastore performance is evaluated in number of read and write operations per second, aka Input/Output operations per second (IOPS).

NexentaStor vCenter Web Client Plugin enables you to monitor the NexentaStor datastore performance in the VMware vSphere Web Client.

NexentaStor vCenter Web Client Plugin collects and displays the following NexentaStor performance statistics in the VMware vSphere Web Client:

- Disk I/O
- Average Disk I/O

See Also:

- [Monitoring NexentaStor Datastores using Web Client Plugin](#)

Monitoring NexentaStor Datastores using Web Client Plugin

NexentaStor vCenter Web Client Plugin displays additional information for the NexentaStor datastore. You can monitor datastore statistics after you add a NexentaStor NFS or iSCSI datastore.

Note: Verify that time is synced between NexentaStor and VMware vCenter. Otherwise, the monitoring data is not available.

❖ *To monitor the NexentaStor Datastore, using the VMware vSphere Web Client:*

1. Click **Home > Hosts and Clusters**.
2. Click the **Storage** icon.
3. Select a NexentaStor datastore.
4. Click **Monitor > Storage Monitoring**.

Figure 5-1: Example of a Disk I/O Graph

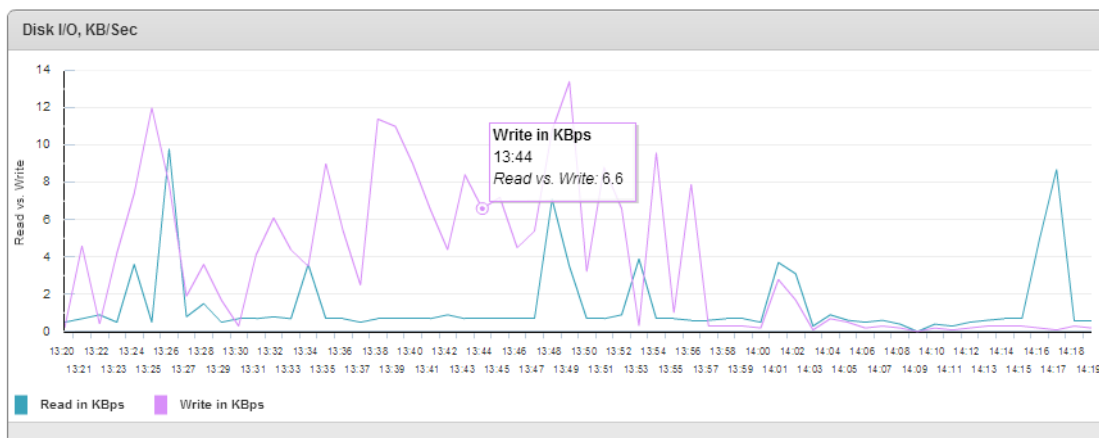
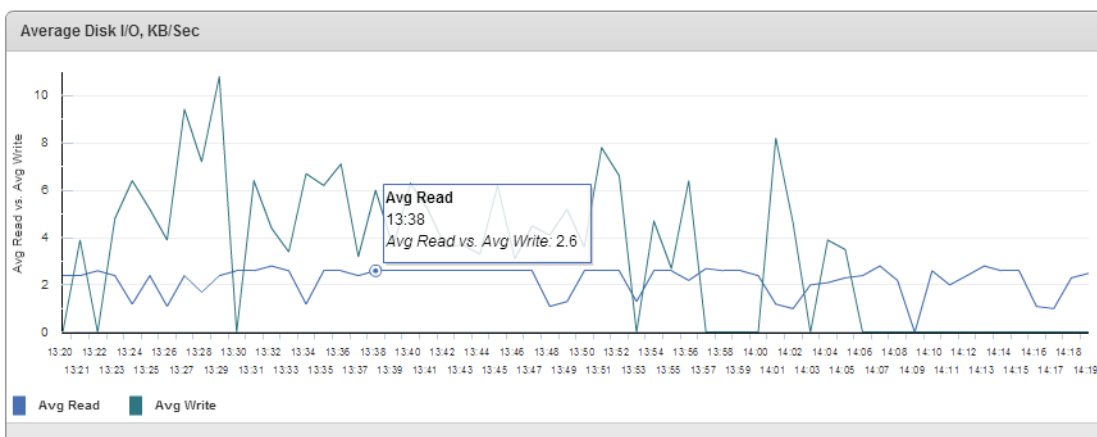


Figure 5-2: Example of a Average I/O Graph

**See Also:**

- [About Datastore Monitoring](#)

About Datastore Snapshot Management

NexentaStor vCenter Web Client Plugin provides the capability to create snapshot and snapshot services for the NexentaStor datastores in VMware vSphere Web Client.

NexentaStor datastore snapshot is a read-only point-in-time representation of a NexentaStor NFS or iSCSI datastore. You can clone a datastore snapshot to create an editable copy. Almost unlimited number of snapshots can be created. Snapshots are stored with the source dataset.

You can perform the following actions with datastore snapshots:

- Clone a volume from a datastore snapshot
- Revert the state of a datastore and all files on that datastore to the selected snapshot
- Delete a snapshot

See Also:

- [Viewing the List of Datastore Snapshots](#)
- [Creating a Datastore Snapshot](#)

Viewing the List of Datastore Snapshots

NexentaStor datastore snapshots are listed under the **DataStore Snapshots** tab.

❖ *To view the list of snapshots, using the VMware vSphere Web Client:*

1. Click **Home > Hosts and Clusters**.

2. Click the **Storage** icon.
3. Select **Manage > Datastore Snapshots**.

See Also:

- [Creating a Datastore Snapshot](#)
- [Creating a Snapshot Service](#)

Creating a Datastore Snapshot

You can create a point-in-time representation of a NexentaStor datastore, aka snapshot to preserve the state of the datastore. You can later roll back the NexentaStor datastore to this state or create a new volume from that snapshot.

❖ *To create a datastore snapshot, using the VMware vSphere Web Client:*

1. Click **Home > Hosts and Clusters**.
2. Click the **Storage** icon.
3. Select **Manage > Datastore Snapshots**.
4. Click **Create Snapshot**.
5. Type the snapshot name.

Optionally, select the checkbox to snapshot only the parent folder not including nested folders into the snapshot.

6. Click **Create**.

See Also:

- [Cloning a Volume from a Datastore Snapshot](#)
- [Creating a Snapshot Service](#)

Cloning a Volume from a Datastore Snapshot

You can clone a datastore volume or a folder from a snapshot and use it as an independent datastore.

Note: After you create a clone of a snapshot, you will be no longer able to delete the snapshot.

❖ *To clone a volume from a datastore snapshot, using the VMware vSphere Web Client:*

1. Click **Home > Hosts and Clusters**.
2. Click the **Storage** icon.
3. Select **Manage > Datastore Snapshots**.
4. In the Action column, click **Clone Volume from Snapshot**.

5. Type the **Clone Name**.
6. Select a volume or a folder.
7. Optionally, select an ESXi server on which you want to share the datastore.
8. Click **Create Clone**.

The clone of the folder/volume appears as a datastore under Storage of the selected ESXi server. You can create snapshots and snapshot services for this datastore.

See Also:

- [Restoring a Datastore Snapshot](#)
- [Deleting a Datastore Snapshot](#)

Restoring a Datastore Snapshot

You can restore the data in a NexentaStor datastore to the state captured at the moment of a snapshot creation.

When you restore a snapshot, you can select from the following destroy options:

- Destroy more recent snapshots and nested snapshots
- Destroy more recent snapshots and clones
- Destroy and unmount cloned folders that you are destroying
- ❖ *To restore a datastore snapshot, using the VMware vSphere Web Client:*
 1. Click **Home > Hosts and Clusters**.
 2. Click the **Storage** icon.
 3. Select **Manage > Datastore Snapshots**.
 4. In the Action column, click **Restore Snapshot**.
 5. Select a destroy option.
 6. Click **Restore**.

See Also:

- [Deleting a Datastore Snapshot](#)
- [Cloning a Volume from a Datastore Snapshot](#)

Deleting a Datastore Snapshot

You can delete unused snapshots. Before you can delete a snapshot, you must unshare the NexentaStor zvol for which.

Use care when you delete snapshots. You cannot restore snapshots after deletion.

When you delete a snapshot, you can choose from the following options:

- Delete the snapshot
- Delete the snapshot and its clones
- Delete the snapshot and unmount its clones

Note: You can only delete snapshots that do not have clones.

❖ *To delete a datastore snapshot, using the VMware vSphere Web Client:*

1. Click **Home > Hosts and Clusters**.
2. Click the **Storage** icon.
3. Select **Manage > Datastore Snapshots**.
4. In the Action column, click **Destroy Snapshot**.
5. Select a destroy option.

See Also:

- [Cloning a Volume from a Datastore Snapshot](#)
- [Restoring a Datastore Snapshot](#)

Viewing the list of Snapshot Services

The list of snapshot services is displayed under the **Scheduled Task** tab in the VMware vSphere Web Client.

❖ *To view the list of snapshot services:*

1. Click **Home > Hosts and Clusters**.
2. Click the **Storage** icon.
3. Select **Manage > Scheduled Snapshots**.

See Also:

- [Creating a Snapshot Service](#)
- [Enabling a Snapshot Service](#)

Creating a Snapshot Service

You can create an automatic periodic snapshot service for a NexentaStor datastore. You can create multiple Auto-Snap services with a unique schedule for each datastore. The service automatically creates a point-in-time representation of a datastore on a regular basis (monthly, weekly, daily, hourly, minute), creates snapshots of the root folder and its descendants, assists in creating a retention policy (Keep days).

❖ *To create a snapshot service:*

1. Click **Home > Hosts and Clusters**.
2. Click the **Storage** icon.
3. Select **Manage > Schedule Snapshots**.
4. Click **Create Schedule**.
5. Fill the following fields:

Name	Snapshot schedule name.
Keep Days	Retention policy. Number of days to keep snapshots.
Periodic Interval	Select from the following options: <ul style="list-style-type: none"> • Minute • Hourly • Daily • Weekly • Monthly
	6. Click Create .

See Also:

- [Enabling a Snapshot Service](#)
- [Deleting a Snapshot Service](#)

Enabling a Snapshot Service

When you create a snapshot service, it is disabled by default. To start the service, you must first enable it.

❖ *To enable a snapshot service:*

1. Click **Home > Hosts and Clusters**.
2. Click the **Storage** icon.
3. Select **Manage > Schedule Snapshots**.
4. In the **Actions** column, slide the runner to **On**.
5. In the confirmation dialog window, click **OK**.

See Also:

- [Disabling a Snapshot Service](#)
- [Deleting a Snapshot Service](#)

Disabling a Snapshot Service

You can temporarily disable snapshot services. When you disable a service, it stops creating snapshots for the selected dataset at the scheduled period.

- ❖ *To disable a snapshot service:*
 1. Click **Home > Hosts and Clusters**.
 2. Click the **Storage** icon.
 3. Select **Manage > Schedule Snapshots**.
 4. In the **Actions** column, slide the runner to **Off**.
 5. In the confirmation dialog window, click **OK**.

See Also:

- [Enabling a Snapshot Service](#)
- [Deleting a Snapshot Service](#)

Deleting a Snapshot Service

You can delete the snapshot services that are no longer in use. When you delete a snapshot service, the information about the service is deleted from VMware vSphere. The snapshots created by this service are not deleted.

- ❖ *To delete a snapshot service:*
 1. Click **Home > Hosts and Clusters**.
 2. Click the **Storage** icon.
 3. Select **Manage > Schedule Snapshots**.
 4. In the **Actions** column, click **Delete Snapshot Schedule**.
 5. In the confirmation dialog window, click **OK**.

See Also:

- [Enabling a Snapshot Service](#)
- [Disabling a Snapshot Service](#)

Troubleshooting NexentaStor vCenter Web Client Plugin

This section includes the following topics:

- [The Nexenta Config icon Is Not Displayed in vSphere Web Client](#)
- [NexentaStor vCenter Web Client Plugin does not register in VMware vCenter Server](#)

The Nexenta Config icon Is Not Displayed in vSphere Web Client

If the Nexenta Config icon is not displayed in vSphere Web Client, you must manually register the NexentaStor vCenter Web Client Plugin as a Windows Server service.

- ❖ *To register NexentaStor vCenter Web Client Plugin in Microsoft Windows Server:*
 1. Verify that you have added the following lines to the `webclient.properties` file:

```
HTTP.DOWNLOAD=true
allowHttp=true
```
 2. Extract the `Nexenta.zip` to `C:\Program Files\VMware\Infrastructure\vsphereWebClient\plugin-packages\nexenta.`
 3. Copy the `vgs.properties` file to `C:\Program Files\VMware\Infrastructure\vsphereWebClient\server.`
 4. Restart the VMware vSphere web client service:
 1. In Windows Server, click **Start > Services**.
 2. In the list of Services, right-click on the **VMware vSphere Web Client**.
 3. Select **Restart**.

NexentaStor vCenter Web Client Plugin does not register in VMware vCenter Server

If NexentaStor vCenter Web Client Plugin registration, fails you must first un-register and then re-install the plugin.

Warning: Do not attempt to re-install the plugin before un-registering it.

❖ *To un-register and re-install the Web Client Plugin:*

1. In a web-browser, log in to vCenter MOB as vCenter Administrator:

`https://<hostname.yourcompany.com>/mob`

2. Click on **content > Extension Manager > Unregister Extension**.

3. In the value box, type the plugin key as:

`"com.acme.vitallabs.Vitallabs"`

4. Click **Invoke Method**.

If the plugin was successfully unregistered, you should receive an empty response.

5. Log in to VCVA command line.

6. Change the directory to the plugin installation directory.

Default is `C:\Program Files\Nexenta vCenter Web Client Plugin`.

7. Run the following command:

```
java -jar Register-vCenterPlugin.jar --unregister
```

While un-registering the plugin, the VMware Virtual vCenter Server and Nexenta Virtualization Storage Management System service must be up and running.

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