

## Nasuni Filer Private Cloud

### Getting Started Guide for Cleversafe/IBM Cloud Object Storage

#### Welcome!

Welcome to the Nasuni family of clients. The Nasuni Filer is your connection to Nasuni's services, giving you a single point of control to manage your storage in your private cloud. Nasuni enables you to absorb data growth, reduce headaches due to backups, and experience the security of offsite replication.

Enjoy powerful data storage and global multi-site access to files — simplified!

Documentation is at: <http://www.nasuni.com/support/documentation>

#### Cleversafe/IBM Cloud Object Storage configuration

**Note:** Nasuni has been qualified with Cleversafe/IBM Cloud Object Storage 3.12.3.

Open port 443 (HTTPS) between Nasuni Filer and Cleversafe/IBM Cloud Object Storage Accesser nodes used.

Before installing Nasuni software, perform steps with Cleversafe/IBM Cloud Object Storage dsNet Manager:

1. **Configure** tab: From the **Storage Pools** list, select the storage pool. In the **Vaults** section, click **Create Vault Template**. Import or enter information, including enabling the Accessers, then click **Save**.
  2. Select this vault template as the default vault template for this storage pool. **Configure** tab: Select **dsNet**; in the “**Default Vault Template Configuration**” area, click **Configure**, then select Nasuni vault template.
- Note:** Nasuni creates its own vaults automatically. You cannot use a pre-existing or manually created vault. Each Nasuni volume has its own dedicated vault.
3. **Maintenance** tab: Verify that the manager is running version 3.2.1.0 or above. If not, click **Upgrade**.
  4. **Administration** tab: Verify **Provisioning API Configuration** is “**create and delete**”, or click **Configure**.
  5. **Security** tab: Verify that you have a user with the **Operator** and **Vault Provisioner** roles. If not, click **Create Account** and enable the **Operator** and **Vault Provisioner** roles.

**Note:** You can use multiple Cleversafe/IBM Cloud Object Storage accounts with Nasuni simultaneously.

**Note:** Vaults are created for each volume on its first snapshot. After a vault is created, Cleversafe/IBM Cloud Object Storage Support must disable the name index on the vault, and enable the recovery listing instead.

**Note:** Since Nasuni encrypts data, do not enable SecureSlice for a Cleversafe/IBM Cloud Object Storage vault, unless the client has a special reason for double encryption.

**Note:** If using dsNet release 3.2.x, ensure that the Advanced Cloud API features are enabled.

#### Downloading software for Nasuni Filer and Nasuni Management Console

To download software for Nasuni Filer and Nasuni Management Console (NMC):

1. Go to the Nasuni Web site for Cleversafe/IBM Cloud Object Storage at <http://www.nasuni.com/partner/ibm>.
2. Click **Start an Evaluation**. Enter contact information and click **Submit**.
3. After you receive email verification from Nasuni, download the installation software by logging in to your Nasuni account Web site (<https://account.nasuni.com/>) and clicking **Downloads**.

#### Installing the Nasuni Filer

**Note:** Confirm with Nasuni Sales or Support that Cleversafe/IBM Cloud Object Storage is enabled for your Nasuni account.

To install the Nasuni Filer virtual appliance:

1. Unzip the Nasuni Filer installation file.
2. Install the Nasuni Filer virtual appliance. See [Installing the Nasuni Filer on Virtual Platforms](#) for details.
3. On the console screen, determine or set the IP address of the Nasuni Filer in one of the following ways:
  - If DHCP is available on the network, make note of the IP address that appears.
  - Otherwise, press `Enter`. Use the username: `service` and the password: `service`. Enter `editnetwork`. Enter `setall static`. Follow prompts to enter network parameters. Enter `save`.
4. Record the IP address on the console screen in order to access the Nasuni Filer user interface.

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**Tip:** If directed by Nasuni Support, to disable Nasuni's compression and deduplication, or adjust chunk size, select volume from **Volumes** list (Filer) or select **Cloud I/O** from the **Volumes** page (NMC), then edit settings.

## Configuring Cleversafe/IBM Cloud Object Storage credentials

**Note:** If you change Cleversafe/IBM Cloud Object Storage credentials, update them on the Nasuni Filer or NMC, to retain access to data.

To configure Cleversafe/IBM Cloud Object Storage credentials:

1. To use the Nasuni Filer, open a Web browser and enter the IP address you recorded using this command:

```
https://<IP address>:8443
```

The Nasuni Filer user interface appears.

Alternatively, open the Nasuni Management Console (NMC).

2. Click **Configuration** (on NMC, **Account**), then select **Cloud Credentials** from the menu. Enter the credentials for Cleversafe/IBM Cloud Object Storage, including the following:
  - **Name:** A name for this set of credentials, which is used for display purposes.
  - **User:** The Username for this set of credentials. "Vault Provisioner" access must be enabled.
  - **Password** (on NMC, **Secret**): The Cleversafe/IBM Cloud Object Storage Password for these credentials.
  - **Hostname:** dsNet Accesser IP address.
  - **Verify SSL Certificates:** For self-signed or default certificate: **Off**. For fully valid SSL certificate: **On**.
  - **Targets** (on NMC): The target Nasuni Filers.

At this point, you can begin adding volumes to the Nasuni Filer.

**Note:** To connect to a remote volume when the Cleversafe/IBM Cloud Object Storage credentials for each Nasuni Filer are different, copy the credentials from the first Nasuni Filer to the second (**Cloud Credentials** page). Then edit the credentials on the second Nasuni Filer.

## Troubleshooting Tips

If the Nasuni Filer virtual appliance does not display the IP address of the Web-based interface within 10 minutes after being powered on, then shut down the Nasuni Filer virtual appliance. After powering the Nasuni Filer virtual appliance back on, watch the boot sequence. If the boot sequence does not end on a screen displaying the IP address of the Web-based user interface, then record any errors that appear on the console and contact Nasuni Technical Support at 888.662.7864.

## Additional Guidelines for Nasuni Filer and Nasuni Management Console

- Volume creation, volume connection, and credentials verification can each take up to 2 minutes.
- Be careful changing existing credentials on Nasuni. The connection between the Nasuni Filer and the vault could become invalid, causing loss of data access. For example, do not change URLs or point at a different Cleversafe/IBM Cloud Object Storage system. Edit credentials to update access to same system or vault.

## We're Here for You

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