License management

Cloud Volumes ONTAP

NetApp
February 27, 2026

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License management

Manage capacity-based licensing for Cloud Volumes ONTAP

Manage your capacity-based licenses from the NetApp Console to ensure that your NetApp account has enough capacity for your Cloud Volumes ONTAP systems.

Capacity-based licenses enable you to pay for Cloud Volumes ONTAP per TiB of capacity.

You can manage capacity-based Cloud Volumes ONTAP licenses from the NetApp Console.

> While the actual usage and metering for the products and services managed in the Console are always calculated in GiB and TiB, the terms GB/GiB and TB/TiB are used interchangeably. This is reflected in the Cloud Marketplace listings, price quotes, listing descriptions, and in other supporting documentation

Learn more about Cloud Volumes ONTAP licenses.

How licenses are added to NetApp Console

After you purchase a license from your NetApp sales representative, NetApp will send you an email with the serial number and additional licensing details.

In the meantime, the Console automatically queries NetApp's licensing service to obtain details about the licenses associated with your NetApp Support Site account. If there are no errors, it adds the licenses.

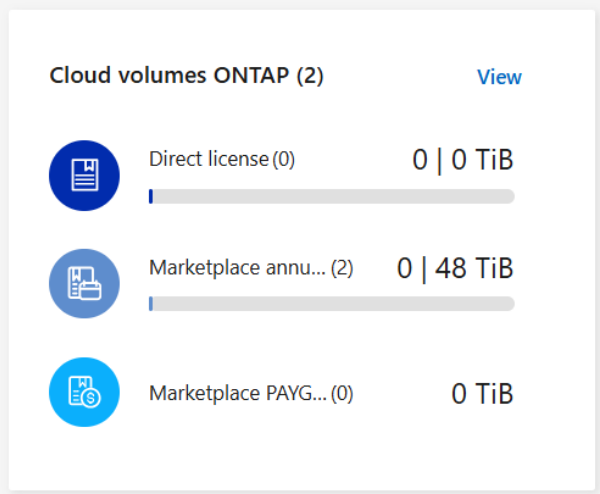
If the Console can't add the license, you'll need to manually add them. For example, if the Console agent is installed at a location that doesn't have internet access, you'll need to add the licenses yourself. Learn how to add purchased licenses to your account.

View the consumed capacity in your account

The Console shows you the total consumed capacity in your account and the consumed capacity by licensing package. This can help you understand how you're being charged and whether you need to purchase additional capacity.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. On the **Overview** tab, the Cloud Volumes ONTAP tile displays the current capacity provisioned for your account.



- *Direct license* is the total provisioned capacity of all Cloud Volumes ONTAP systems in your NetApp account. The charging is based on each volume's provisioned size, regardless of local, used, stored, or effective space within the volume.
- *Annual contract* is the total licensed capacity (bring your own license (BYOL) or Marketplace Contract) that you purchased from NetApp.
- *PAYGO* is the total provisioned capacity using cloud marketplace subscriptions. Charging via PAYGO is used only if the consumed capacity is higher than the licensed capacity or if there is no BYOL license available in the Console.

3. Select **View** to see the consumed capacity for each of your licensing packages.
4. Select the **Licenses** tab to see details for each package license that you have purchased.

   To better understand the capacities that display for the Essentials package, you should be familiar with how charging works. Learn about charging for the Essentials package.

5. Select the **Subscriptions** tab to see the consumed capacity by license consumption model. This tab includes both PAYGO and annual contract licenses.

   You'll only see the subscriptions that are associated with the organization that you are that you're currently viewing.

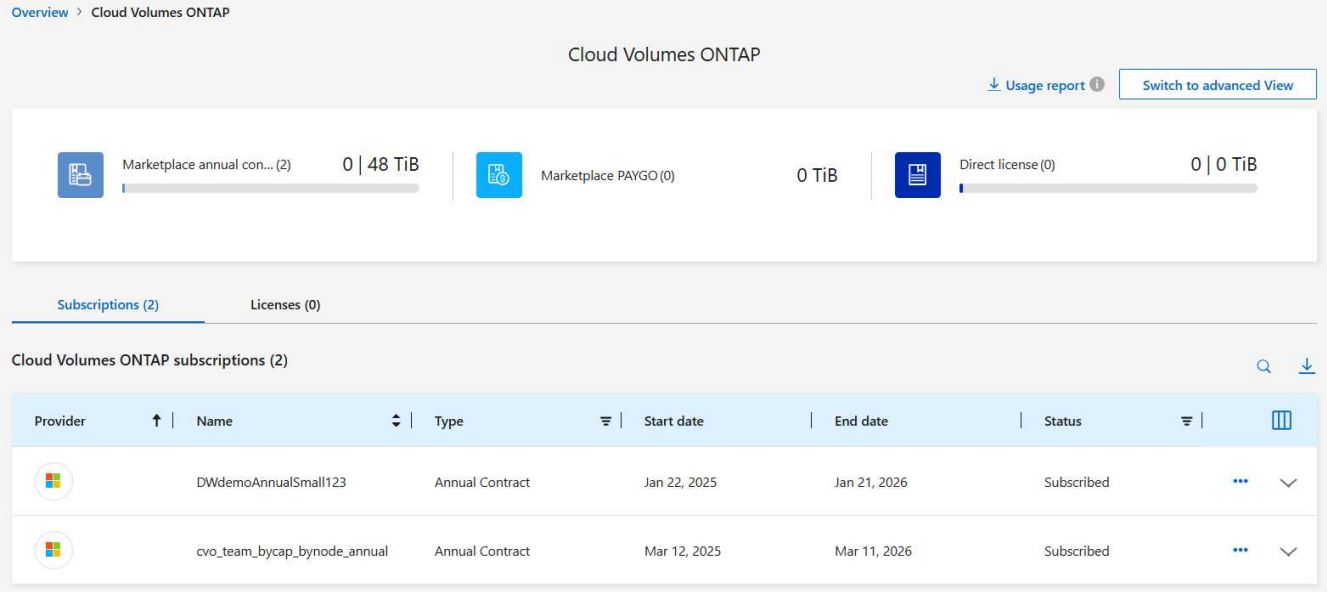
6. As you view the information about your subscriptions, you can interact with the details in the table. Expand a row to view more details.
   - Select to choose which columns appear in the table.
     Note that the Term and Auto Renew columns don't appear by default. The Auto Renew column displays renewal information for Azure contracts only.

Viewing package details

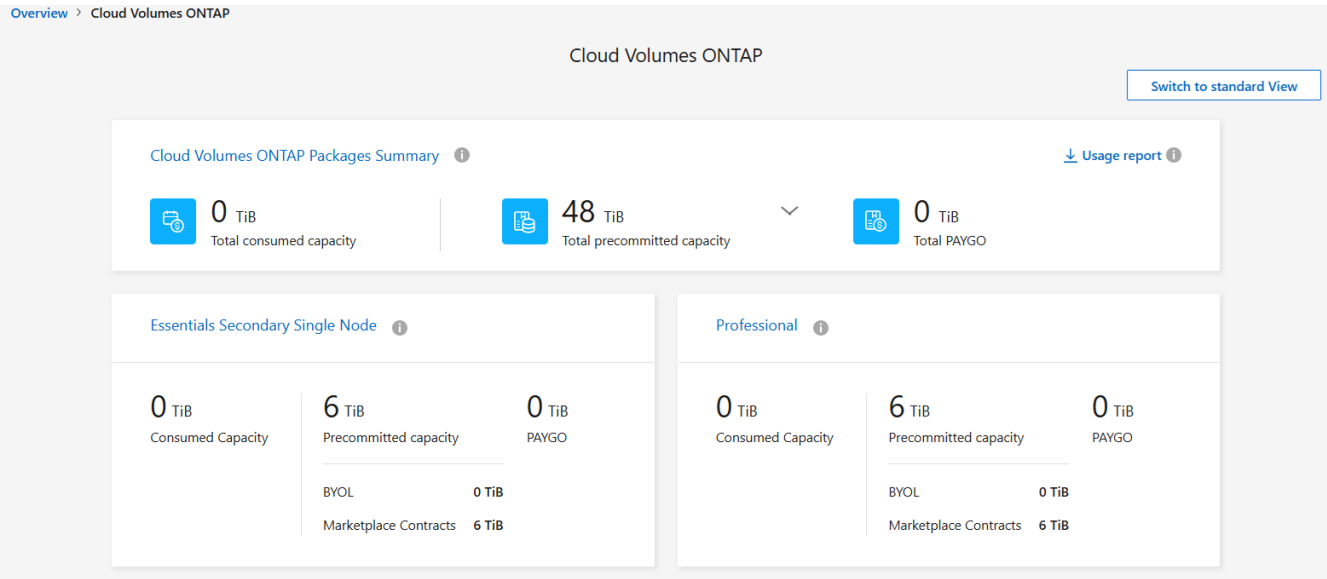
You can view details about the capacity used per package by switching to legacy mode on the Cloud Volumes ONTAP page.

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. On the **Overview** tab, the Cloud Volumes ONTAP tile displays the current capacity provisioned for your account.
3. Select **View** to see the provisioned capacity for each of your licensing packages.

4. Select **Switch to advanced view**.



5. View the details of the package you want to see.



Change charging methods

Capacity-based licensing is available in the form of a *package*. When you create a Cloud Volumes ONTAP system, you can choose from several licensing packages based on your business needs. If your needs change after you create the system, you can change the package at any time. For example, you might change from the Essentials package to the Professional package.

Learn more about capacity-based licensing packages.

About this task

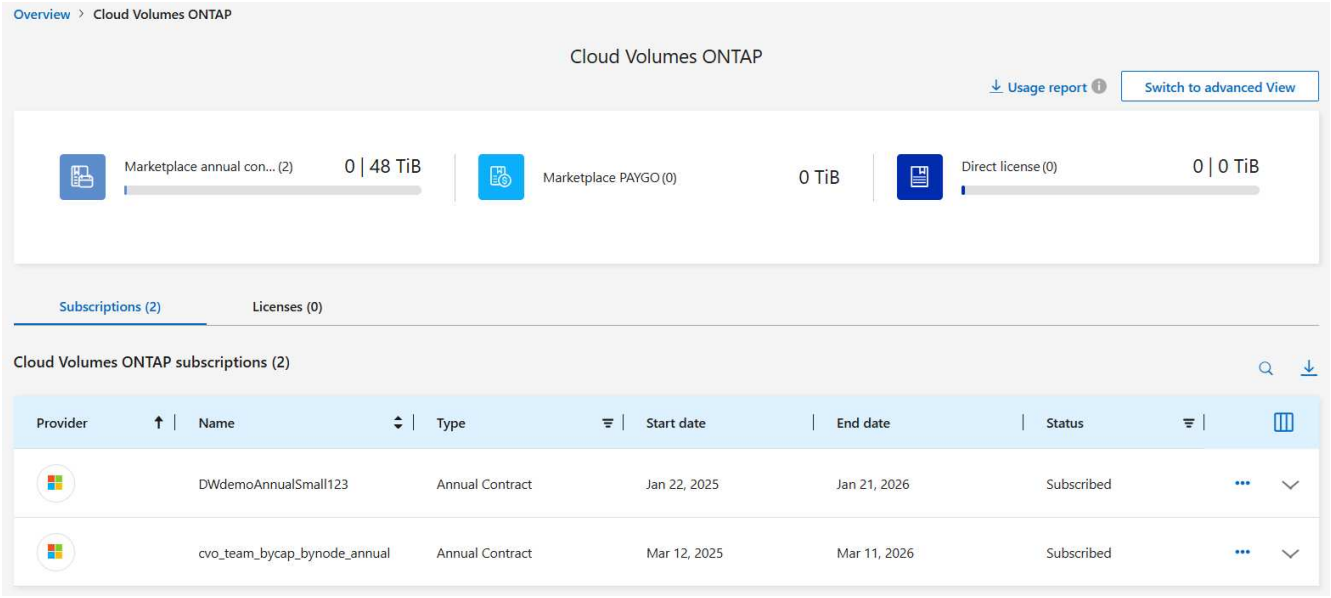
- Changing the charging method doesn't affect whether you're charged through a license purchased from NetApp (BYOL) or from your cloud provider's marketplace pay-as-you-go (PAYGO) subscription.

The Console always attempts to charge against a license first. If a license isn't available, it charges against a marketplace subscription. You don't have to convert a BYOL subscription to marketplace subscription or vice versa.

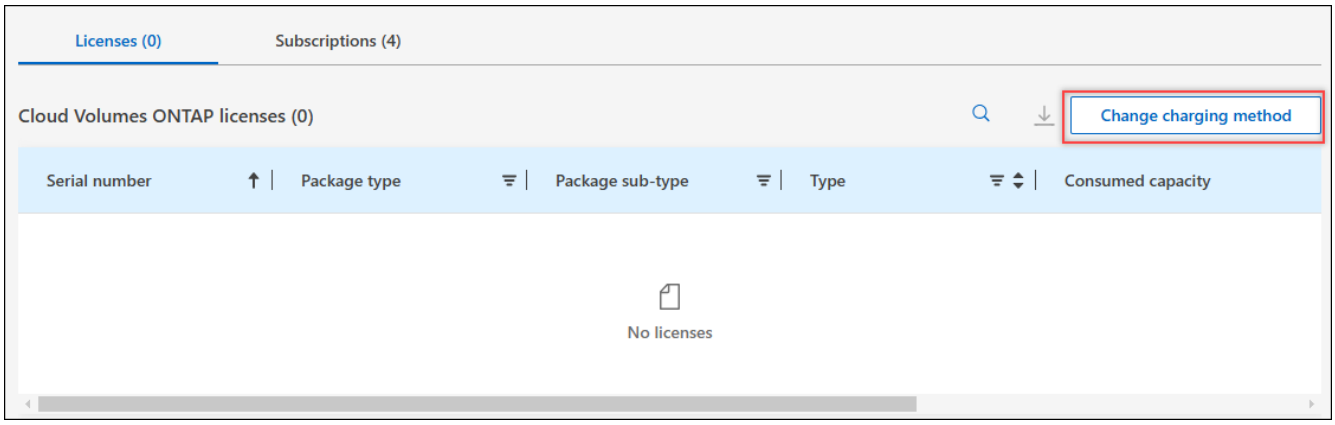
- If you have a private offer or contract from your cloud provider's marketplace, changing to a charging method that's not included in your contract will result in charging against BYOL (if you purchased a license from NetApp) or PAYGO.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. Select the **Overview** tab.
3. On the Cloud Volumes ONTAP tile, select **View**.
4. Select **Switch to advanced view**.



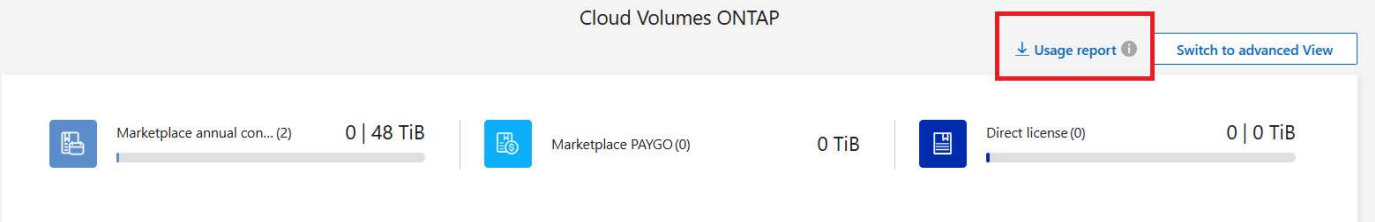
5. Scroll down to the **Capacity-based license** table and select **Change charging method**.



6. On the **Change charging method** pop-up, select a Cloud Volumes ONTAP system, choose the new charging method, and then confirm your understanding that changing the package type will affect service charges.
7. Select **Change charging method**.

Download usage reports

You can download four usage reports from the Console. These usage reports provide capacity details of your subscriptions and tell you how you're being charged for the resources in your Cloud Volumes ONTAP subscriptions. The downloadable reports capture data at a point in time and can be easily shared with others.



The following reports are available for download. Capacity values shown are in TiB.

- **High-level usage**: This report includes the following information:
  - Total consumed capacity
  - Total precommitted capacity
  - Total BYOL capacity
  - Total Marketplace contracts capacity
  - Total PAYGO capacity
- **Cloud Volumes ONTAP package usage**: This report includes the following information for each package:
  - Total consumed capacity
  - Total precommitted capacity
  - Total BYOL capacity
  - Total Marketplace contracts capacity
  - Total PAYGO capacity
- **Storage VMs usage**: This report shows how charged capacity is broken down across Cloud Volumes ONTAP systems and storage virtual machines (SVMs). This information is only available in the report. It contains the following information:
  - System ID and name (appears as the UUID)
  - Cloud
  - NetApp account ID
  - System configuration
  - SVM name
  - Provisioned capacity
  - Charged capacity roundup
  - Marketplace billing term
  - Cloud Volumes ONTAP package or feature
  - Charging SaaS Marketplace subscription name
  - Charging SaaS Marketplace subscription ID
  - Workload type

- **Volumes usage**: This report shows how charged capacity is broken down by volumes in a Cloud Volumes ONTAP system. This information is not available on any screen in the Console. It includes the following information:
  - System ID and name (appears as the UUID)
  - SVN name
  - Volume ID
  - Volume type
  - Volume provisioned capacity

> FlexClone volumes aren't included in this report because these types of volumes don't incur charges.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. On the **Overview** tab, select **View** from the Cloud Volumes ONTAP tile.
3. Select **Usage report**.

   The usage report downloads.

4. Open the downloaded file to access the reports.

Manage Keystone subscriptions for Cloud Volumes ONTAP through NetApp Console

Manage your Keystone subscriptions in the NetApp Console by enabling subscriptions for use with Cloud Volumes ONTAP and by requesting changes to the committed capacity for your subscription's service levels. Requesting additional capacity for a service level provides more storage for Cloud Volumes ONTAP systems.

NetApp Keystone is a flexible pay-as-you-grow subscription-based service that delivers a hybrid cloud experience for customers who prefer OpEx to CapEx or leasing.

Learn more about Keystone

Authorize your account

Before you can use and manage Keystone subscriptions in the Console, you need to contact NetApp to authorize your Console account with your Keystone subscriptions.

Steps

1. From the NetApp Console menu, select **Administration > Licenses and subscriptions**.
2. Select **Keystone Subscriptions**.
3. If you see the **Welcome to NetApp Keystone** page, send an email to the address listed on the page.

   A NetApp representative will process your request by authorizing your account to access the subscriptions.

4. Come back to the **Keystone Subscriptions** tab to view your subscriptions.

Link a subscription

After NetApp authorizes your account, you can link Keystone subscriptions for use with Cloud Volumes ONTAP. This action enables users to select the subscription as the charging method for new Cloud Volumes ONTAP systems.

Steps

1. From the NetApp Console menu, select **Administration > Licenses and subscriptions**.
2. Select **Keystone Subscriptions**.
3. For the subscription that you want to link, click ••• and select **Link**.

Result

The subscription is now linked to your Console organization or account and available to select when creating a Cloud Volumes ONTAP working environment.

Request more or less committed capacity

If you want to change the committed capacity for your subscription's service levels, you can send a request to NetApp directly from the Console. Requesting additional capacity for a service level provides more storage for Cloud Volumes ONTAP systems.

Steps

1. From the NetApp Console menu, select **Administration > Licenses and subscriptions**.
2. Select **Keystone Subscriptions**.
3. For the subscription that you want to adjust the capacity, click ••• and select **View detail and edit**.
4. Enter the requested committed capacity for one or more subscriptions.
5. Scroll down, enter any additional details for the request, and then click **Submit**.

Result

Your request creates a ticket in NetApp's system for processing.

Monitor usage

The Digital Advisor dashboard enables you to monitor Keystone subscription usage and generate reports.

Learn more about monitoring subscription usage

Unlink a subscription

If you no longer want to use a Keystone subscription with the Console, you can unlink the subscription. Note that you can only unlink a subscription that isn't attached to an existing Cloud Volumes ONTAP subscription.

Steps

1. From the NetApp Console menu, select **Administration > Licenses and subscriptions**.
2. Select **Keystone**.
3. For the subscription that you want to unlink, click ••• and select **Unlink**.

Result

The subscription is unlinked from your Console organization or account and no longer available to select when

creating a Cloud Volumes ONTAP working environment.

Manage node-based licensing for Cloud Volumes ONTAP

Manage node-based licenses in the NetApp Console to ensure that each Cloud Volumes ONTAP system has a valid license with the required capacity.

Node-based licenses are the previous generation licensing model (and not available for new customers):

- Bring your own license (BYOL) licenses purchased from NetApp
- Hourly pay-as-you-go (PAYGO) subscriptions from your cloud provider's marketplace

You can manage node-based Cloud Volumes ONTAP licenses licenses from the NetApp Console.

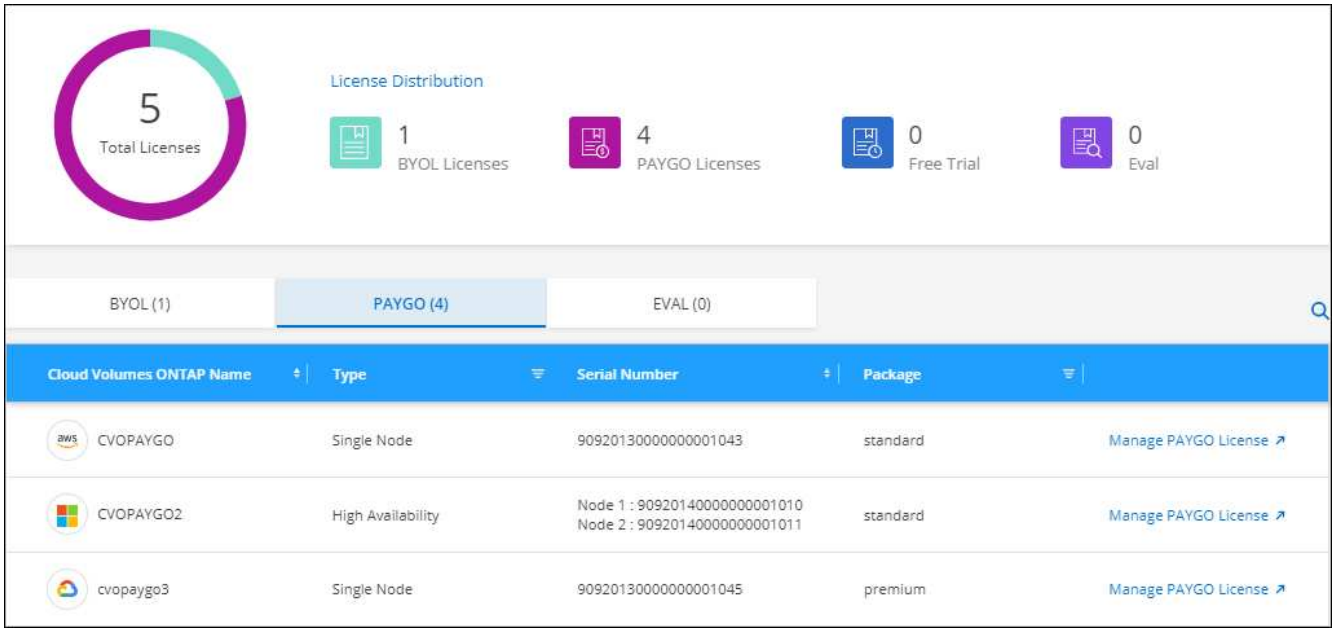
Learn more about Cloud Volumes ONTAP licenses.

Manage PAYGO licenses

The Licenses and subscriptions menu enables you to view details about each of your PAYGO Cloud Volumes ONTAP systems, including the serial number and PAYGO license type.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. Select the **Overview** tab.
3. On the Cloud Volumes ONTAP tile, select **View**.
4. Select **Node Based Licenses** from the drop-down.
5. Click **PAYGO**.
6. View details in the table about each of your PAYGO licenses.



7. If needed, click **Manage PAYGO License** to change the PAYGO license or to change the instance type.

Manage BYOL licenses

Manage licenses that you purchased directly from NetApp by adding and removing system licenses and extra capacity licenses.

NetApp has restricted the purchase, extension, and renewal of BYOL licensing. For more information, refer to Restricted availability of BYOL licensing for Cloud Volumes ONTAP.

Add unassigned licenses

Add a node-based license to the Console so that you can select the license when you create a new Cloud Volumes ONTAP system. The Console identifies these licenses as *unassigned*.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. Select the **Overview** tab.
3. On the Cloud Volumes ONTAP tile, select **View**.
4. Select **Node Based Licenses** from the drop-down.
5. Click **Unassigned**.
6. Click **Add Unassigned Licenses**.
7. Enter the serial number of the license or upload the license file.

   If you don’t have the license file yet, refer to the section below.

8. Click **Add License**.

Result

The Console adds the license. The license will be identified as unassigned until you associate it with a new Cloud Volumes ONTAP system. After that happens, the license moves to the **BYOL** tab in **Licenses and subscriptions**.

Exchange unassigned node-based licenses

If you have an unassigned node-based license for Cloud Volumes ONTAP that you haven’t used, you can exchange the license by converting it to a NetApp Backup and Recovery license, a NetApp Data Classification license, or a NetApp Cloud Tiering license.

Exchanging the license revokes the Cloud Volumes ONTAP license and creates a dollar-equivalent license for the service:

- Licensing for a Cloud Volumes ONTAP HA pair is converted to a 51 TiB direct license
- Licensing for a Cloud Volumes ONTAP single node is converted to a 32 TiB direct license

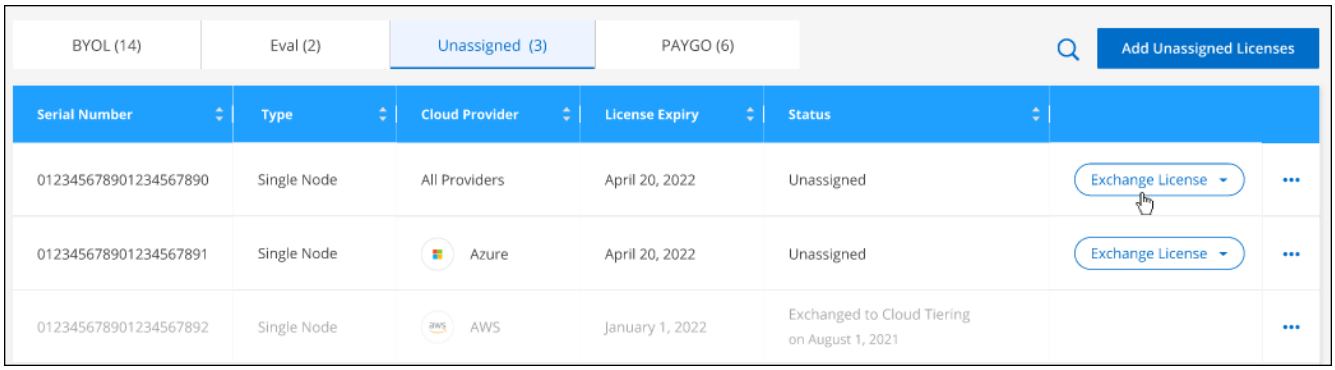
The converted license has the same expiration date as the Cloud Volumes ONTAP license.

View walkthrough of how to exchange node-based licenses.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. Select the **Overview** tab.

3. On the Cloud Volumes ONTAP tile, select **View**.
4. Select **Node Based Licenses** from the drop-down.
5. Click **Unassigned**.
6. Click **Exchange License**.



7. Select the service that you'd like to exchange the license with.
8. If you're prompted, select an additional license for the HA pair.
9. Read the legal consent and click **Agree**.

Result

The Console converts the unassigned license to the service that you selected. You can view the new license in the **Data Services Licenses** tab.

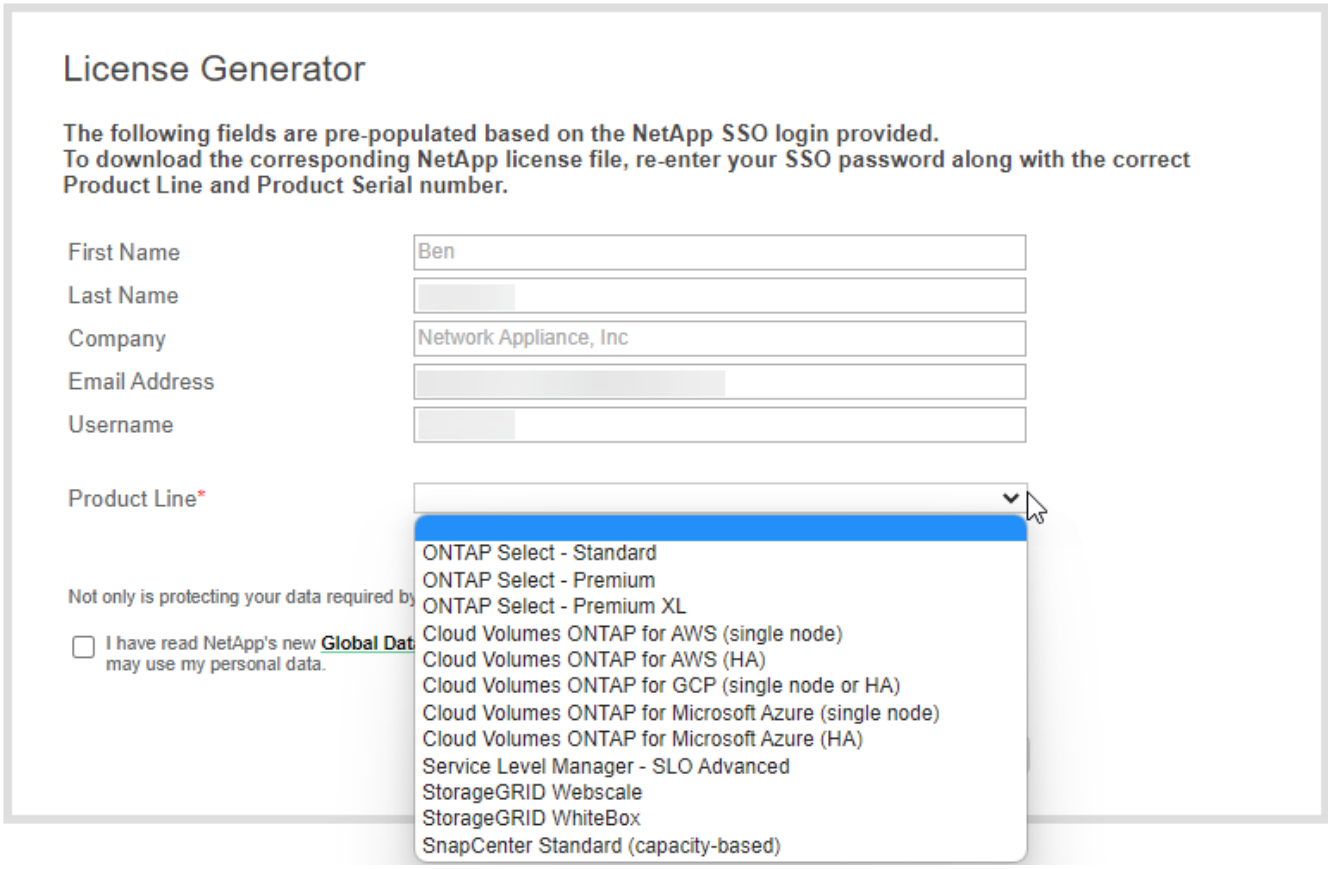
Obtain a system license file

In most cases, the Console can automatically obtain your license file using your NetApp Support Site account. But if it can't, then you'll need to manually upload the license file. If you don't have the license file, you can obtain it from netapp.com.

Steps

1. Go to the NetApp License File Generator and log in using your NetApp Support Site credentials.
2. Enter your password, choose your product, enter the serial number, confirm that you have read and accepted the privacy policy, and then click **Submit**.

   Example



3. Choose whether you want to receive the serialnumber.NLF JSON file through email or direct download.

Update a system license

When you renew a BYOL subscription by contacting a NetApp representative, the Console automatically obtains the new license from NetApp and installs it on the Cloud Volumes ONTAP system. If the Console can't access the license file over the secure internet connection, you can obtain the file yourself and then manually upload the file.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. Select the **Overview** tab.
3. On the Cloud Volumes ONTAP tile, select **View**.
4. Select **Node Based Licenses** from the drop-down.
5. In the **BYOL** tab, expand the details for a Cloud Volumes ONTAP system.
6. Click the action menu next to the system license and select **Update License**.
7. Upload the license file (or files if you have an HA pair).
8. Click **Update License**.

Result

The Console updates the license on the Cloud Volumes ONTAP system.

Manage extra capacity licenses

You can purchase extra capacity licenses for a Cloud Volumes ONTAP BYOL system to allocate more than the 368 TiB of capacity that's provided with a BYOL system license. For example, you might purchase one extra license capacity to allocate up to 736 TiB of capacity to Cloud Volumes ONTAP. Or you could purchase three extra capacity licenses to get up to 1.4 PiB.

The number of licenses that you can purchase for a single-node system or HA pair is unlimited.

Add capacity licenses

Purchase an extra capacity license by contacting us through the chat icon in the lower-right of the Console. After you purchase the license, you can apply it to a Cloud Volumes ONTAP system.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. Select the **Overview** tab.
3. On the Cloud Volumes ONTAP tile, select **View**.
4. Select **Node Based Licenses** from the drop-down.
5. In the **BYOL** tab, expand the details for a Cloud Volumes ONTAP system.
6. Click **Add Capacity License**.
7. Enter the serial number or upload the license file (or files if you have an HA pair).
8. Click **Add Capacity License**.

Update capacity licenses

If you extended the term of an extra capacity license, you'll need to update the license in the Console.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. Select the **Overview** tab.
3. On the Cloud Volumes ONTAP tile, select **View**.
4. Select **Node Based Licenses** from the drop-down.
5. In the **BYOL** tab, expand the details for a Cloud Volumes ONTAP system.
6. Click the action menu next to the capacity license and select **Update License**.
7. Upload the license file (or files if you have an HA pair).
8. Click **Update License**.

Remove capacity licenses

If an extra capacity license expired and is no longer in use, then you can remove it at any time.

Steps

1. From the left navigation pane, select **Administration > Licenses and subscriptions**.
2. Select the **Overview** tab.
3. On the Cloud Volumes ONTAP tile, select **View**.

4. Select **Node Based Licenses** from the drop-down.
5. In the **BYOL** tab, expand the details for a Cloud Volumes ONTAP system.
6. Click the action menu next to the capacity license and select **Remove License**.
7. Click **Remove**.

Change between PAYGO and BYOL

Converting a system from PAYGO by-node licensing to BYOL by-node licensing (and vice versa) isn't supported. If you want to switch between a pay-as-you-go subscription and a BYOL subscription, then you need to deploy a new system and replicate data from the existing system to the new system.

Steps

1. Create a new Cloud Volumes ONTAP system.
2. Set up a one-time data replication between the systems for each volume that you need to replicate.

   Learn how to replicate data between systems

3. Terminate the Cloud Volumes ONTAP system that you no longer need by deleting the original system.

   Learn how to delete a Cloud Volumes ONTAP system.

Related links

<a href="https://docs.netapp.com/us-en/storage-management-cloud-volumes-ontap/End of availability of node-based licenses
xref:./task-convert-node-capacity.html">Convert node-based licenses to capacity based

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