



# **License management for node-based BYOL**

## **Cloud Manager**

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# License management for node-based BYOL

Each Cloud Volumes ONTAP system that has a node-based BYOL must have a system license installed with an active subscription. Cloud Manager simplifies the process by managing licenses for you and by displaying a warning before they expire.

[Learn more about Cloud Volumes ONTAP licensing options.](#)

## BYOL system licenses

A node-based license provides up to 368 TB of capacity for a single node or HA pair.

You can purchase multiple licenses for a Cloud Volumes ONTAP BYOL system to allocate more than 368 TB of capacity. For example, you might purchase two licenses to allocate up to 736 TB of capacity to Cloud Volumes ONTAP. Or you could purchase four licenses to get up to 1.4 PB.

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



Some on-premises ONTAP storage systems that you purchased may have included a free Cloud Volumes ONTAP license. You can use the license to create a new Cloud Volumes ONTAP system, or you can apply the license to an existing Cloud Volumes ONTAP system to expand the capacity. [See if you have any available licenses to use.](#)

Be aware that disk limits can prevent you from reaching the capacity limit by using disks alone. You can go beyond the disk limit by [tiering inactive data to object storage](#). For information about disk limits, refer to [storage limits in the Cloud Volumes ONTAP Release Notes](#).

## License management for a new system

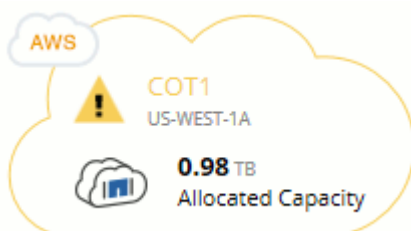
When you create a node-based BYOL system, Cloud Manager prompts you for the serial number of your license and your NetApp Support Site account. Cloud Manager uses the account to download the license file from NetApp and to install it on the Cloud Volumes ONTAP system.

[Learn how to add NetApp Support Site accounts to Cloud Manager.](#)

If Cloud Manager can't access the license file over the secure internet connection, you can [obtain the file yourself and then manually upload the file to Cloud Manager](#).

## License expiration

Cloud Manager displays a warning 30 days before a node-based license is due to expire and again when the license expires. The following image shows a 30-day expiration warning that appears in the user interface:



You can select the working environment to review the message.

Cloud Manager includes a license expiration warning in the Cloud Volumes ONTAP report that's emailed to you, if you are an Account Admin and you enabled the option:

The screenshot shows the 'User Settings' page in the NetApp Cloud Manager interface. The top navigation bar includes 'Workspace Newone', 'Connector N/A', a settings gear icon, a help icon (question mark), and a user profile icon. A yellow arrow labeled '1' points to the user profile icon. Below the navigation bar, the 'User Settings' section displays the user's name 'Ben', a blurred email address, and the company 'NetApp'. A yellow arrow labeled '2' points to the checkbox for 'Email me Cloud Volumes ONTAP report', which is currently checked. The 'NetApp Internal' logo is visible in the top right corner of the settings area.

The emailed report includes the license expiration warning every 2 weeks.

If you don't renew the license in time, the Cloud Volumes ONTAP system shuts itself down. If you restart it, it shuts itself down again.

## License renewal

When you renew a node-based BYOL subscription by contacting a NetApp representative, Cloud Manager automatically obtains the new license from NetApp and installs it on the Cloud Volumes ONTAP system.

If Cloud Manager can't access the license file over the secure internet connection, you can [obtain the file yourself and then manually upload the file to Cloud Manager](#).

# License transfer to a new system

A node-based BYOL license is transferable between Cloud Volumes ONTAP systems when you delete an existing system and then create a new one using the same license.

For example, you might want to delete an existing licensed system and then use the license with a new BYOL system in a different VPC/VNet or cloud provider. Note that only *cloud-agnostic* serial numbers work in any cloud provider. Cloud-agnostic serial numbers start with the *908xxxx* prefix.

It's important to note that your BYOL license is tied to your company and a specific set of NetApp Support Site credentials.

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