



Licensing

Cloud Manager

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Licensing

Each Cloud Volumes ONTAP BYOL system must have a system license installed with an active subscription. Cloud Manager simplifies the process by managing licenses for you and by notifying you before they expire. BYOL licenses are also available for Cloud Backup.

BYOL system licenses

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.

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

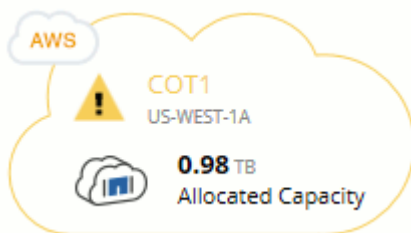
When you create a BYOL system, Cloud Manager prompts you for the serial number of your license and your NetApp Support Site account. Cloud Manager uses the account to download the license file from NetApp and to install it on the Cloud Volumes ONTAP system.

[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. For instructions, see [Managing BYOL licenses for Cloud Volumes ONTAP](#).

License expiration warning

Cloud Manager warns you 30 days before a license is due to expire and again when the license expires. The following image shows a 30-day expiration warning:



You can select the working environment to review the message.

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.



Cloud Volumes ONTAP can also notify you through email, an SNMP traphost, or syslog server using EMS (Event Management System) event notifications. For instructions, see the [ONTAP 9 EMS Configuration Express Guide](#).

License renewal

When you renew a 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. For instructions, see [Managing BYOL licenses for Cloud Volumes ONTAP](#).

BYOL backup licenses

A BYOL backup license allows you to purchase a license from NetApp to use Cloud Backup for a certain period of time and for a maximum amount backup space. When either limit is reached you will need to renew the license.

[Learn more about the Cloud Backup BYOL license.](#)

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