Purchase a license

ONTAP Select

NetApp
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Purchase a license

License purchasing workflow for ONTAP Select

The following workflow illustrates the process of purchasing and applying a license for your ONTAP Select deployment. When purchasing a license, you must select the licensing model and storage capacity.

The exact process varies based on whether you are using a Capacity Tier or Capacity Pool license:

Nine-digit license serial number

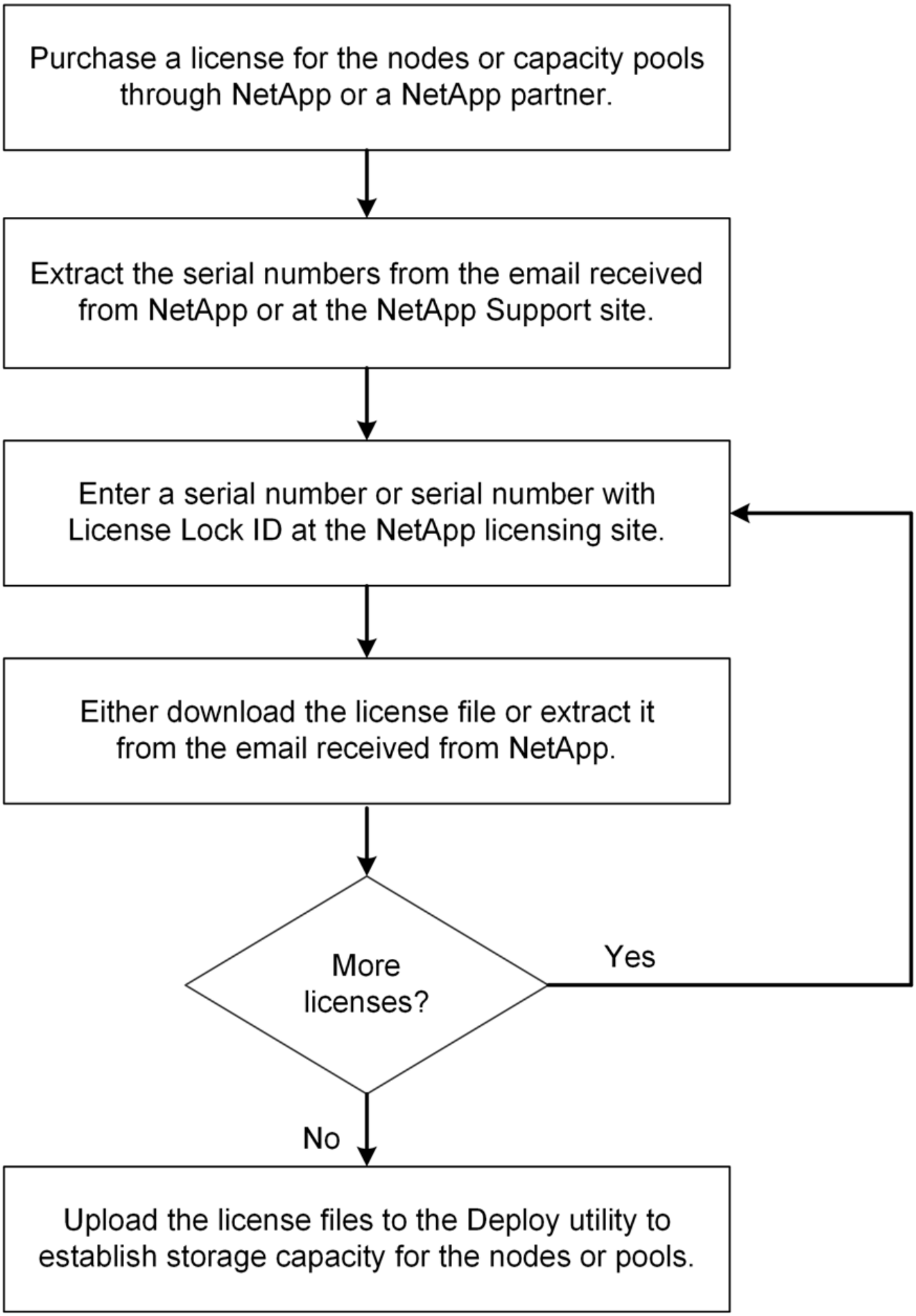
Serial number applies to either a node (Capacity Tiers) or a storage pool (Capacity Pools)

License Lock ID

You must have the License Lock ID for your Deploy instance when using a Capacity Pool license

Licensing web site

You obtain a Capacity Tier and Capacity Pool license at different web sites.


Purchase a license for the nodes or capacity pools through NetApp or a NetApp partner.
Extract the serial numbers from the email received from NetApp or at the NetApp Support site.
Enter a serial number or serial number with License Lock ID at the NetApp licensing site.
Either download the license file or extract it from the email received from NetApp.
More licenses?
Yes
No
Upload the license files to the Deploy utility to establish storage capacity for the nodes or pools.

What's next?

Learn about the considerations for sizing an ONTAP Select license:

- Capacity Tiers license
- Capacity Pools license

Related information

Learn about managing ONTAP Select licenses

Capacity Tiers

Determine Capacity Tiers license size for ONTAP Select

The Capacity Tiers license is based on the underlying disk capacity managed by each ONTAP Select node and not the usable capacity of the node, HA-pair, or cluster. Each Capacity Tiers license is assigned to an individual node serial number for a specified capacity and requires an accompanying support contract.

The licensed capacity for a Capacity Tiers license is in full TB amounts, with a minimum of 1 TB. You calculate the licensed capacity by multiplying the amount of usable space by the overhead factor. The overhead factor estimates the ONTAP Select software overhead capacity to be taken from the usable space and it applies to determining the ONTAP Select capacity for NVMe, SSD, HDD, or virtual drives. The overhead factor differs between a single-node and multi-node (HA-pair based) clusters:

- Overhead factor for single-node clusters is 1.13
- Overhead factor for multi-node clusters is 2.67

You need to calculate the licensed capacity based on the usable space to ensure you have enough for your deployment. For example, you want 10 TB of usable capacity for an HA pair (5 TB per node):

- With an HA pair, the data is duplicated between both nodes for redundancy, so for 10 TB of usable data in an HA pair, you need to have 10 TB per node, in case one of the nodes goes offline.
- The factor of 2.67 doubles the capacity of each node and adds the overhead capacity (0.67) needed for ONTAP Select to function.
- The license capacity per node is 14 TB (5 x 2.67 = 13.35). For the HA pair, you require two 14 TB licenses to have 10 TB of usable capacity.

Description	Single node	HA pair
Usable space	10 TB	5 TB per node 10 TB for HA pair
Licensed space	12 TB (10 x 1.13 = 11.3, round up to next full TB)	Two 14 TB licenses (5 x 2.67 = 13.35, round up to next full TB)

Description	Single node	HA pair
Maximum usable space per node **Note**: The maximum managed space per node or HA pair is 400 TB	353 TB (400 / 1.13)	Per node in an HA pair: • 149 TB (400 / 2.67) Per HA pair in a multi-node cluster: • Two-node: 298 TB (2 x 149) • Four-node: 596 TB (4 x 149) • Six-node: 894 TB (6 x 149) • Eight-node: 1,192 TB (8 x 149) • Ten-node: 1,490 TB (10 x 149) • Twelve-node: 1,788 TB (12 x 149)

What's next

Acquire a Capacity Tier license for ONTAP Select

Acquire an ONTAP Select Capacity Tier license

When using Capacity Tiers licensing, you need to acquire a license file for each ONTAP Select node. The license file defines the storage capacity for the node and is locked to the node through the unique nine-digit serial number assigned by NetApp.

Before you begin

- You must have the nine-digit license serial number assigned to the ONTAP Select node by NetApp.
- You should wait at least 24 hours after the shipped date of your purchase order before acquiring a license file.
- You have reviewed the considerations for sizing a Capacity Tiers license.

About this task

You must perform this task for each ONTAP Select node requiring a Capacity Tiers license.

Steps

1. Access the ONTAP Select license site.
2. Sign in using your NetApp account credentials.
3. On the **License Generator** page, select the desired license offering from the dropdown box.
4. Fill in the remaining fields on the **License Generator** page, including the **Product Serial #**.

   The "product serial #" is the serial number for the ONTAP Select node.

5. Select **Submit**.
6. After the request has been validated, select the delivery method for the license.

   You can select either **Download License** or **Email License**.

7. Confirm that you received the license file based on your selected delivery method.

After you finish

You must upload the license file to the Deploy administration utility before it can be applied to an ONTAP Select node.

Capacity Pools

Determine Capacity Pools license size for ONTAP Select

The licensed capacity for a Capacity Pool license is in full TB amounts, with a minimum of 2 TB. You calculate the licensed capacity by multiplying the amount of usable space by the overhead factor. The overhead factor estimates the ONTAP Select software overhead capacity to be taken from the usable space and it applies to determining the ONTAP Select capacity for NVMe, SSD, HDD, or virtual drives. The overhead factor differs between a single-node and multi-node (HA-pair based) clusters:

- Overhead factor for single-node clusters is 1.13
- Overhead factor for multi-node clusters is 2.67

You need to calculate the licensed capacity based on the usable space to ensure you have enough for your deployment. For example, you want 20 TB of usable capacity for an HA pair (10 TB per node):

- With an HA pair, the data is duplicated between both nodes for redundancy, so for 20 TB of usable data in an HA pair, you need to have 20 TB per node, in case one of the nodes goes offline.
- The factor of 2.67 doubles the capacity of each node and adds the overhead capacity (0.67) needed for ONTAP Select to function.
- The license capacity per node is 27 TB (10 x 2.67 = 26.7). For the HA pair, you require two 27 TB licenses to have 20 TB of usable capacity.

Description	Single-node	HA pair or mix of HA pair and single-node
Usable space	20 TB	10 TB per single-node cluster 20 TB for HA pair
Licensed space	23 TB (20 x 1.13 = 22.6, round up to next full TB)	54 TB (20 x 2.67 = 53.4, round up to next full TB)
Maximum usable space per node **Note**: The maximum managed space per node or HA pair is 400 TB	353 TB (400 / 1.13)	Per single-node in a cluster: 149 TB (400 / 2.67) Per HA pair in a cluster: 298 TB (2 x 149)

What's next

Acquire a Capacity Pools license for ONTAP Select

Acquire an ONTAP Select Capacity Pool license

You must acquire a license file for each Capacity Pool used by the ONTAP Select nodes. The license file defines the storage capacity and expiration for the pool. It is locked to the License Manager through a combination of the unique license serial number assigned by NetApp and the License Lock ID associated with the Deploy instance.

Before you begin

- You must have the nine-digit license serial number assigned to the Capacity Pool by NetApp.
- You should wait at least 24 hours after the shipped date of your purchase order before acquiring a license file.
- You have reviewed the considerations for sizing a Capacity Pools license.

About this task

You must perform this task for each Capacity Pool used by the ONTAP Select nodes.

Steps

1. Log in to the NetApp Support site.
2. Select **Systems** > **Software Licenses**.
3. Type the license serial number for the Capacity Pool and select **Go!**.
4. On the license details page, navigate to the **Product Details** column.
5. Select **Get NetApp License File** on the appropriate row.
6. Type the License Lock ID for your ONTAP Select Deploy instance and select **Submit**.
7. Select the appropriate delivery method and select **Submit**.
8. Select **OK** on the delivery confirmation window.

After you finish

You must upload the license file to the Deploy administration utility before an ONTAP Select node can use the Capacity Pool.

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