Capacity Tiers

ONTAP Select

NetApp
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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.

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