Options

ONTAP Select

NetApp
February 03, 2026

This PDF was generated from https://docs.netapp.com/us-en/ontap-select-9171/concept_lic_evaluation.html on February 03, 2026. Always check docs.netapp.com for the latest.

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Options

Evaluation licenses for ONTAP Select deployments

You can deploy ONTAP Select with an evaluation license or a purchased license. The license you choose must apply to each of the nodes in the ONTAP Select cluster and therefore to the entire cluster. You can use an evaluation license if you want to evaluate ONTAP Select before making the decision to purchase. The evaluation license is included with the ONTAP Select Deploy administration utility and is automatically applied to each ONTAP Select node as part of an evaluation deployment.

To download the ONTAP Select Deploy administration utility, you need the following:

- A registered NetApp Support Site account. If you don't have an account, see User registration.
- To accept the End User License agreement for an ONTAP Select deployment with an evaluation license.

There are several considerations when deploying and supporting an evaluation cluster:

- You can only use the cluster for evaluation purposes. You must not use a cluster with an evaluation license in a production environment.
- You should use the ONTAP Select Deploy administration utility as follows when configuring each host:
  - Don't supply a serial number
  - Configure to use an evaluation license

Licensing characteristics

The ONTAP Select evaluation license has the following characteristics:

- A production license with storage capacity isn't required
- The node serial number is twenty digits and automatically generated by ONTAP Select Deploy

  (you don't acquire it directly from NetApp)
- The evaluation period provided by the license can be up to 90 days
- The maximum storage allocated by each node is the same as a production license

Upgrade to a production license

You can upgrade an ONTAP Select evaluation cluster to use a production license. You should be aware of the following restrictions:

- You must use the Deploy administration utility to perform the license upgrade
- You can use a Capacity Tier license, however Capacity Pools licensing isn't supported
- Each node must have enough storage allocated to support the minimum required for a production license, based on the cluster size

See Convert an evaluation license to a production license for more information.

Related information

- Learn about licenses for production deployments
- Deploy a 90-day evaluation instance of an ONTAP Select cluster

ONTAP Select purchased licenses for production deployments

After you determine that ONTAP Select is suitable for your organization, you can purchase the licenses needed to support a production deployment. You must choose either the Capacity Tiers or Capacity Pools licensing model as well as the storage capacity for each deployment.

Common licensing characteristics

The *Capacity Tiers* and *Capacity Pools* licensing models are very different in several respects. However, the two licensing models share several common characteristics, including:

- You must purchase one or more licenses as needed when deploying ONTAP Select in a production environment.
- The storage capacity for a license is allocated in 1 TB increments.
- The storage capacity identifies the raw capacity and corresponds to the total allowable size of the data disks available to the ONTAP Select virtual machine.
- All platform licensing offerings are supported (standard, premium, premium XL).
- You should contact your NetApp account team or partner for assistance as needed when acquiring the necessary licenses.
- You must upload the license files to the Deploy administration utility, which then applies the licenses based on the licensing model.
- After installing and applying a license, you can add additional capacity by contacting your NetApp account team or partner to procure an updated license.
- Both nodes in an HA pair must have the same storage and license capacity.
- An ONTAP Select node that is initially deployed with a purchased license cannot be converted to an evaluation license.

Capacity Tiers licensing model

There are several characteristics unique to the Capacity Tiers licensing model, including:

- You must purchase a license for each ONTAP Select node.
- The minimum amount you can purchase is 1 TB.
- Each Capacity Tier license has a storage capacity and is locked to a specific node.
- A nine-digit license serial number is generated by NetApp for each ONTAP Select node.
- The storage allocated to a node is perpetual (no renewal required).
- The node serial number is nine digits and equal to the license serial number.

- You can apply the license file during cluster deployment or within 30 days after creating a cluster.

Capacity Pools licensing model

There are several characteristics unique to the Capacity Pools licensing model, including:

- You must purchase a license for each shared Capacity Pool.
- The minimum amount you can purchase is 2 TB.
- Each Capacity Pool license has a storage capacity and is locked to a specific License Manager instance.
- A nine-digit license serial number is generated by NetApp for each Capacity Pool.
- The storage allocated to a Capacity Pool is valid only for a specific time based on the purchase (renewal required).
- The node serial number is twenty digits and is generated by the License Manager based on the Capacity Pool license serial number.
- Each node automatically leases storage capacity for its local data aggregates from a shared Capacity Pool.

For more details on the Capacity Pools licensing model, see the *Capacity Pools licensing model* for more information.

Learn about the platform license offerings for ONTAP Select

You can purchase an ONTAP Select Capacity Tier or Capacity Pool license in the standard, premium, or premium XL level. These license offerings determine the capabilities of the hosts where you deploy ONTAP Select.

What a platform license offering provides

A specific license offering determines the capabilities of the hypervisor host in two areas:

- Instance type (CPU, memory)
- Additional features

The license offerings are arranged in an ascending order of capabilities from standard to premium XL. In general, the license option you choose grants you the capabilities of that level and all lower levels. For example, the premium level provides the capabilities of both premium and standard.

The following table compares the capabilities for the standard, premium, and premium XL license offerings.

License supports …		**Standard**	**Premium**	**Premium XL**
Instance type		Small only	Small or medium	Small, medium, or large
Hard disk drives (HDD) in a …	Hardware RAID configuration	Yes	Yes	Yes
	vNAS configuration	Yes	Yes	Yes

License supports …		Standard	Premium	Premium XL
Solid state drives (SSD) in a …	Hardware RAID configuration	No	Yes	Yes
	Software RAID configuration	No	Yes	Yes
	vNAS configuration	Yes	Yes	Yes
NVMe drives in a …	Hardware RAID configuration	No	No	Yes
	Software RAID configuration	No	No	Yes
	vNAS configuration	Yes	Yes	Yes
MetroCluster SDS		No	Yes	Yes

Kernel-Based Virtual Machines (KVM) do not support the large instance type.

Compare hardware support for platform license offerings

The standard, premium, and premium XL license offerings support a wide range of hardware and software. For up-to-date information on hardware and software versions, see the Interoperability Matrix Tool.

Core item

Core item type	Description
Host protocols	NFS, SMB/CIFS, iSCSI, and NVMe over TCP
Deployment options	Single node Two-node cluster (HA pair) Four-, six-, or eight-node cluster
Supported capacity (per node)	Up to 400TB raw data (ESXi and KVM)

Hardware

Hardware type	Description		
Instance size	**Small**	**Medium**	**Large**
CPU family	Intel Xeon E5-26xx v3 (Haswell) or later	Intel Xeon E5-26xx v3 (Haswell) or later	Intel Xeon E5-26xx v3 (Haswell) or later
ONTAP Select CPU / memory	4 virtual CPUs (vCPUs) / 16GB of RAM	8 vCPUs / 64GB of RAM	16 vCPUs / 128GB of RAM
Host CPU / memory minimum requirements [1]	6 cores / 24GB of RAM	10 cores / 72GB of RAM	18 cores / 136GB of RAM
Network (per node)	Minimum of two 1GbE ports for a single node cluster Minimum of four 1GbE ports for a two-node cluster (HA pair) Minimum of two 10GbE ports for a four-, six-, or eight-node cluster		

[1] Assumes two cores and 8GB of RAM for the hypervisor.

Storage type

The following table provides the minimum license type required for the specified storage.

Storage type	Description		
License type	**Standard**	**Premium**	**Premium XL**
Instance size	**Small**	**Small and medium**	**Small, medium, and large**
Local DAS with hardware RAID controller	8 - 60 drives	8 - 60 drives	8 - 60 drives
HDD (SAS, NL-SAS, SATA)	Not applicable	4 – 60 drives	4 – 60 drives
SSD (SAS)	Not applicable	4 – 60 drives (SSD only)	4 – 60 drives (SSD only)
Local DAS with software RAID	Not applicable	Applicable	4 - 14 drives (NVMe only)

External arrays [1]	Datastores hosted on external arrays are connected through FC, FCoE, iSCSI, and NFS (NFS isn't supported for KVM). These datastores provide high availability and resilience.

[1] External array protocol support reflects networked storage connectivity.

Software

Software type	Description
Hypervisor support (VMware)	VMware vSphere 9.0 VMware vSphere 8.0GA and updates 1 through 3 VMware vSphere 7.0GA and updates 1 through 3C
Hypervisor support (KVM)	Red Hat Enterprise Linux (RHEL) 64-bit (KVM) 10.1, 10.0, 9.7, 9.6, 9.5, 9.4, 9.3, 9.2, 9.1, 9.0, 8.8, 8.7, and 8.6 Rocky Linux (KVM) 10.1, 10.0, 9.7, 9.6, 9.5, 9.4, 9.3, 9.2, 9.1, 9.0, 8.9, 8.8, 8.7, and 8.6 **Note**: There are software RAID workflow limitations for KVM hypervisors on RHEL 10.1 and 10.0 and Rocky Linux 10.1 and 10.0 hosts. For more information, see the following Knowledge Base articles: • CDEPLOY-4020: ONTAP Select Deploy: Warning message while create the Cluster HWR using RHEL 10 and ROCKY 10 • CDEPLOY-4025: ONTAP Select DeployGUI: Storage pools and storage disks not visible for SWR in cluster creation page on hosts with RHEL10/Rocky 10
Management software	NetApp Active IQ Unified Manager management suite ONTAP Select Deploy Utility SnapCenter (optional)

Related information

- Learn about Capacity Tier and Capacity Pool license types

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