Release Notes

ONTAP Select

NetApp
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Table of Contents

Release Notes . . . 1
- ONTAP Select Release Notes . . . 1
- What's new for ONTAP Select . . . 1
  - ONTAP Select 9.19.1 . . . 1
  - ONTAP Select 9.18.1 . . . 1
  - ONTAP Select 9.17.1 . . . 2
  - ONTAP Select 9.16.1 . . . 4
  - ONTAP Select 9.15.1 . . . 4
  - ONTAP Select 9.14.1 . . . 5
  - ONTAP Select 9.13.1 . . . 5
  - ONTAP Select 9.12.1 . . . 5
  - ONTAP Select 9.11.1 . . . 6
  - ONTAP Select 9.10.1 . . . 6
  - ONTAP Select 9.9.1 . . . 7
  - ONTAP Select 9.8 . . . 7

Release Notes

ONTAP Select Release Notes

The Release Notes for ONTAP Select provide release-specific information, including new features, supported configurations, upgrade notes, known issues, fixed issues, and known limitations.

You need an account to sign in to the NetApp Support Site to access the Release Notes.

Current version of ONTAP Select

You can access the ONTAP Select 9.19.1 Release Notes to view the details about the current version.

What's new for ONTAP Select

Learn about the new features and enhancements in supported versions of ONTAP Select.

ONTAP Select 9.19.1

Support for external key management (KMIP)

Beginning with ONTAP Select 9.19.1, ONTAP Select supports external key management using the Key Management Interoperability Protocol (KMIP). You can enable external key management after deploying an ONTAP Select 9.19.1 cluster or upgrading an existing cluster to ONTAP Select 9.19.1. For more information, refer to ONTAP features licensed by default.

ONTAP Select does not support cloud key managers.

Support for Advanced Micro Devices (AMD) processors

Beginning with ONTAP Select 9.19.1, ONTAP Select supports AMD processors on Kernel-Based Virtual Machine (KVM) and ESXi hypervisor hosts. For more information, refer to VMware hypervisor and hardware considerations.

ONTAP Select 9.18.1

Updates to the ONTAP Select product download options

The ONTAP Select product download options on the NetApp Support Site are changing with the ONTAP Select 9.18.1 release to **ONTAP Select Deploy** and **ONTAP Select Image**. These two new product download options replace the previous four options, as shown in the following table:

Previous product download option	New product download option	For more information, go to….
ONTAP Select	ONTAP Select Deploy	Install ONTAP Select Deploy
ONTAP Select Image Install	ONTAP Select Image	Add an ONTAP Select image to Deploy
ONTAP Select Deploy Upgrade	ONTAP Select Deploy	Upgrade an ONTAP Select Deploy instance
ONTAP Select Node Upgrade	ONTAP Select Image	Upgrade ONTAP Select nodes

Enhanced support for cluster expansion and contraction

Beginning with ONTAP Select 9.18.1, cluster expansion and contraction is supported between four-node and twelve-node ONTAP Select clusters on ESXi and KVM hypervisor hosts.

You can increase the cluster size for an existing cluster on an ESXi or KVM host in the following increments:

- From four nodes to six, eight, ten, or twelve nodes
- From six nodes to eight, ten, or twelve nodes
- From eight nodes to ten or twelve nodes
- From ten to twelve nodes

You can decrease the cluster size for an existing cluster on an ESXi or KVM host in the following increments:

- From twelve nodes to ten, eight, six, or four nodes
- From ten nodes to eight, six, or four nodes
- From eight to six or four nodes
- From six to four nodes

Learn about cluster expansion and contraction and the supported KVM and ESXi hypervisor versions.

Updated KVM hypervisor support

Beginning with ONTAP Select 9.18.1, KVM hypervisor is supported on Rocky Linux 10.1.

ONTAP Select 9.17.1

Software RAID support for locally attached NVMe disks on KVM hosts

ONTAP Select 9.17.1 introduces software RAID support for ONTAP Select locally attached NVMe disks on a KVM hypervisor host.

To use software RAID for locally attached NVMe disks, you need to configure PCI passthrough (DirectPath IO) when you are preparing the KVM host. This provides direct access for the KVM host to the locally attached NVMe disks, which is required for the following tasks:

- Configuring the KVM host to use NVMe drives
- Using software RAID after you deploy the cluster

Learn about the software RAID configuration services for local attached storage.

Support for cluster expansion and contraction on KVM hosts

Beginning with ONTAP Select 9.17.1, the cluster expansion and contraction feature is supported for both Kernel-Based Virtual Machine (KVM) and ESXi hypervisor hosts. For ONTAP Select 9.16.1 and 9.15.1, cluster expansion and contraction is only supported for ESXi hypervisor hosts.

You can use the cluster expansion and contraction feature on an existing ONTAP Select cluster to increase the size from a six-node to an eight-node cluster or decrease the size from an eight-node to a six-node cluster.

Learn about cluster expansion and contraction and the supported KVM and ESXi hypervisor versions.

Enhanced support for cluster expansion and contraction on ESXi hosts

Beginning with ONTAP Select 9.17.1, cluster expansion and contraction is supported between six-node and twelve-node clusters on ESXi hosts:

You can increase the cluster size for an existing ESXi cluster in the following increments:

- From six nodes to eight, ten, or twelve nodes
- From eight nodes to ten or twelve nodes
- From ten to twelve nodes

You can decrease the cluster size for an existing ESXi cluster in the following increments:

- From twelve nodes to ten, eight, or six nodes
- From ten nodes to eight or six nodes
- From eight to six nodes

Learn about cluster expansion and contraction and the supported KVM and ESXi hypervisor versions.

Support for SnapMirror cloud

Beginning with ONTAP Select 9.17.1, SnapMirror cloud is supported with ONTAP Select. SnapMirror cloud is not licensed by default for ONTAP Select. When you deploy an ONTAP Select 9.17.1 cluster or upgrade an existing ONTAP Select cluster to version 9.17.1, you need to request a SnapMirror cloud license. For more information, refer to ONTAP features that are separately licensed.

Support for SnapLock Select

Beginning with ONTAP Select 9.17.1, new deployments have SnapLock Select (including tamperproof snapshot locking) licensed automatically. For upgrades from ONTAP Select 9.16.1 and earlier, you can download the SnapLock Select license free of charge from the NetApp Support Site and apply it manually. For more information, refer to ONTAP features licensed by default.

Support for vSAN ESA on multi-node clusters

Beginning with ONTAP Select 9.17.1, support for vSAN Express Storage Architecture (ESA) is extended to deploy multi-node clusters. This enhancement enables you to deploy vSAN ESA configurations.

vSAN ESA is an ESXi specific configuration and is a new architecture for VMware vSAN introduced in vSphere 8. vSAN ESA is designed to offer enhanced efficiency, scalability, and performance, particularly when using NVMe-based TLC flash devices.

ONTAP Select Deploy and ONTAP Select for ESXi support the configuration of an ONTAP Select single-node and multi-node cluster, using either a vSAN or an external array type of datastore for its storage pool.



To perform Content Library operations, you need access to additional permission levels. This access is required for vSAN ESA deployments if you are working with restricted roles.

Learn about accessing permission levels for Content Library operations.

Updated NDA driver support

Beginning with ONTAP Select 9.17.1, the FreeBSD NDA (NVMe Direct Access) device driver replaces the NVD (NVMe express disk driver). The FreeBSD driver provides support for direct access devices by implementing the NVMe command protocol. When you deploy an ONTAP Select 9.17.1 cluster or upgrade an existing ONTAP Select cluster to version 9.17.1, the FreeBSD driver is started by default when you configure the NVMe devices.

For ONTAP Select 9.16.1 and earlier, the NVD continues to provide support for NVMe devices in your ONTAP Select deployment.

Updated KVM hypervisor support

Beginning with ONTAP Select 9.17.1, KVM hypervisor is supported on Red Hat Enterprise Linux (RHEL) 10.1, 10.0, 9.7, and 9.6 and Rocky Linux 10.0, 9.7, and 9.6.

There are software RAID workflow limitations for KVM hypervisors on RHEL 10.1 and 10.0 and Rocky Linux 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

Enhanced VMware ESXi support

ONTAP Select 9.17.1 includes support for VMware ESXi 9.0.

ONTAP Select 9.16.1

Updated NetApp License File support

Beginning with ONTAP Select 9.16.1, the NetApp License File (NLF) support is updated. The new NLF format includes licenses for the ARP, ONTAP S3, and S3 SnapMirror features. Learn more.

For a new ONTAP Select 9.16.1 Deploy, the new NLF format is automatically applied. When you upgrade an existing ONTAP Select Deploy to 9.16.1, the new NLF format is not applied. To get the ARP, ONTAP S3, and S3 SnapMirror feature licenses, you must download the updated NLF after you upgrade. If you revert to ONTAP Select 9.15.1 or earlier, you must reinstall the feature licenses that you had before the upgrade.

Support for Autonomous Ransomware Protection

ONTAP Select 9.16.1 introduces support for Autonomous Ransomware Protection (ARP). ONTAP Select 9.16.1 only supports manual updates for ARP, automatic updates are not supported. The ARP feature license is included in the NLF for ONTAP Select 9.16.1. Learn more.

Enhanced VMware ESXi support

ONTAP Select 9.16.1 includes support for VMware ESXi 8.0 U3.

Updated KVM hypervisor support

Beginning with ONTAP Select 9.16.1, KVM hypervisor is supported on RHEL 9.5 and Rocky Linux 9.5.

ONTAP Select 9.15.1

Updated KVM hypervisor support

Beginning with ONTAP Select 9.15.1, Kernel-Based Virtual Machine (KVM) hypervisor is supported on RHEL 9.4 and Rocky Linux 9.4.

Support for cluster expansion and contraction

Beginning with ONTAP Select 9.15.1, cluster expansion and contraction is supported.

- Cluster expansion from six-node to eight-node clusters

You can increase the cluster size from a six-node cluster to an eight-node cluster with the cluster expansion feature. Cluster expansions from one, two, or four-node clusters to six or eight-node clusters are not currently supported. Learn more.

- Cluster contraction eight-node to six-node clusters

  You can decrease the cluster size from an eight-node cluster to six-node cluster with the cluster contraction feature. Cluster contractions from six or eight-node clusters to one, two, or four-node clusters are not currently supported. Learn more.

Support for cluster expansion and contraction is limited to ESXi clusters only.

ONTAP Select 9.14.1

Support for KVM hypervisor

Beginning with ONTAP Select 9.14.1, support for KVM hypervisor has been reinstated. Previously, support for deploying a new cluster on a KVM hypervisor was removed in ONTAP Select 9.10.1 and support for managing existing KVM clusters and hosts, except to take offline or delete, was removed in ONTAP Select 9.11.1.

Deploy VMware vCenter plug-in is no longer supported

Beginning with ONTAP Select 9.14.1, the Deploy VMware vCenter plug-in is no longer supported.

Updated ONTAP Select Deploy support

If you are running a version of ONTAP Select Deploy 9.14.1 lower than 9.14.1P2, you should upgrade to ONTAP Select Deploy 9.14.1P2 as soon as possible. For more information, refer to the ONTAP Select 9.14.1 Release Notes.

Enhanced VMware ESXi support

ONTAP Select 9.14.1 includes support for VMware ESXi 8.0 U2.

ONTAP Select 9.13.1

Support for NVMe over TCP

When you upgrade to ONTAP Select 9.13.1, you must have the new license to support NVMe over TCP. This license is automatically included when you deploy ONTAP Select for the first time from version 9.13.1.

Updated VMware ESXi support

Beginning with ONTAP 9.13.1, VMware ESXi 8.0.1 GA (build 20513097) is supported with hardware version 4 and later.

Updated ONTAP Select Deploy support

As of April 2024, ONTAP Select Deploy 9.13.1 is no longer available on the NetApp Support Site. If you are running ONTAP Select Deploy 9.13.1, you should upgrade to ONTAP Select Deploy 9.14.1P2 as soon as possible. For more information, refer to the ONTAP Select 9.14.1 Release Notes.

ONTAP Select 9.12.1

ONTAP Select 9.12.1 benefits from most of the new developments in the current release of the core ONTAP product. It does not include any new features or improvements specific to ONTAP Select.

As of April 2024, ONTAP Select Deploy 9.12.1 is no longer available on the NetApp Support Site. If you are

running ONTAP Select Deploy 9.12.1, you should upgrade to ONTAP Select Deploy 9.14.1P2 as soon as possible. For more information, refer to the ONTAP Select 9.14.1 Release Notes.

ONTAP Select 9.11.1

Enhanced VMware ESXi support

ONTAP Select 9.11.1 includes support for VMware ESXi 7.0 U3C.

Support for VMware NSX-T

ONTAP Select 9.10.1 and later releases have been qualified for VMware NSX-T version 3.1.2. There are no functional issues or deficiencies when using NSX-T with an ONTAP Select single-node cluster deployed with an OVA file and the ONTAP Select Deploy administration utility. However, when using NSX-T with an ONTAP Select multi-node cluster, you should note the following limitation for ONTAP Select 9.11.1:

- Network connectivity checker

  The network connectivity checker available through the Deploy CLI fails when it is run against an NSX-T based network.

KVM hypervisor is no longer supported

- Beginning with ONTAP Select 9.10.1, you can no longer deploy a new cluster on the KVM hypervisor.
- Beginning with ONTAP Select 9.11.1, all manageability functionality is no longer available for existing KVM clusters and hosts, except for the take offline and delete functions.

  NetApp strongly recommends that customers plan and execute a full data migration from ONTAP Select for KVM to any other ONTAP platform, including ONTAP Select for ESXi. For more information, refer to the EOA Notice

ONTAP Select 9.10.1

Support for VMware NSX-T

ONTAP Select 9.10.1 has been qualified for VMware NSX-T version 3.1.2. There are no functional issues or deficiencies when using NSX-T with an ONTAP Select single-node cluster deployed with an OVA file and the ONTAP Select Deploy administration utility. However, when using NSX-T with an ONTAP Select multi-node cluster, you should note the following requirements and limitations:

- Cluster MTU

  You must manually adjust the cluster MTU size to 8800 before deploying the cluster to account for the additional overhead. The VMware guidance is to allow for a 200-byte buffer when using NSX-T.

- Network 4x10Gb configuration

  For ONTAP Select deployments on a VMware ESXi host configured with four NICs, the Deploy utility will prompt you to follow the best practice of splitting internal traffic across two different port groups and external traffic across two different port groups. However, when using an overlay network this configuration does not work and you should disregard the recommendation. In this case, you should instead use only one internal port group and one external port group.

- Network connectivity checker

  The network connectivity checker available through the Deploy CLI fails when it is run against an NSX-T based network.

KVM hypervisor is no longer supported

Beginning with ONTAP Select 9.10.1 you can no longer deploy a new cluster on the KVM hypervisor. However, if you upgrade a cluster from a previous release to 9.10.1 you can still use the Deploy utility to administer the cluster.

ONTAP Select 9.9.1

Processor family support

Beginning with ONTAP Select 9.9.1, only CPU models from Intel Xeon Sandy Bridge or later are supported for ONTAP Select.

Updated VMware ESXi support

Support for VMware ESXi has been enhanced with ONTAP Select 9.9.1. The following releases are now supported:

- ESXi 7.0 U2
- ESXi 7.0 U1

ONTAP Select 9.8

High speed interface

The high speed interface feature enhances network connectivity by providing an option for both 25G (25GbE) and 40G (40GbE). To achieve the best performance when using these higher speeds, you should follow the best practices regarding port mapping configurations as described in the ONTAP Select documentation.

Updated VMware ESXi support

There are two changes for ONTAP Select 9.8 regarding the support for VMware ESXi.

- ESXi 7.0 is supported (GA build 15843807 and later)
- ESXi 6.0 is no longer supported

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