Datasheet

NetApp ONTAP Select

Software-defined data storage services for the hybrid cloud

Key Features

Flexible Deployment

- Deploy on your choice of commodity server, hypervisor, and media, whether NVMe, SSD or HDD.
- Leverage your existing server infrastructure, HCI configurations, and external arrays for enterprise data services.
- Simplify operations and lower training requirements with consistent management across all storage, based on NetApp® ONTAP® software.

Cloudlike Agility

- Spin up storage resources with cloudlike agility, from procurement to deployment in a day.
- Quickly add capacity dynamically in increments of as little as 1TB.
- Easily move and replicate data non-disruptively across the hybrid cloud.

Enterprise-Class Functionality

- Use software-defined storage built on ONTAP, the industry-leading data management software.
- Gain enterprise-class data reduction and data protection for NAS and SAN workloads.
- Dynamically scale and balance workloads nondisruptively.
- Maintain uninterrupted data availability across multiple sites up to 10 kilometers apart with ONTAP Select MetroCluster™ SDS.

Your Data Center Built on NetApp

Architect your IT environment: ONTAP data management is there

To address the need for greater IT agility, many organizations are looking to the cloud. Cloud storage is easy to spin up quickly and in small increments. However, putting valuable data in the public cloud isn't for everyone. Retention policies might not permit data to be kept off site, and although cloud data storage is easy to deploy, the cost can escalate quickly. And retrieving or repatriating data can be expensive in terms of both time and money.

NetApp ONTAP Select offers robust enterprise storage services that are easily deployed on your choice of commodity hardware from the comfort of your own data center. It combines the best of the cloud, in terms of agility and granular capacity scaling, with the flexibility, resilience, and locality of on-premises storage.

Deploy NetApp ONTAP Your Way

Build a software-defined storage infrastructure that uses flexible storage configurations

ONTAP Select converts a server's internal disk drives, NVMe, SSD or HDD, as well as HCI and external array storage, into an agile, flexible storage system with many of the same benefits offered by dedicated storage systems based on NetApp ONTAP. For added flexibility, you can deploy ONTAP Select on new servers or on your existing server infrastructure. ONTAP Select is easy to manage and leverages the same management software as ONTAP based solutions, which means reduced operational overhead and training requirements.

Increase Productivity Without Increasing Cost

Cloudlike agility from the comfort of your data center

Because ONTAP Select is a software solution, you can purchase and deploy it in less than a day to get new projects up and running quickly.

ONTAP Select adapts to your capacity consumption needs with two complementary licensing models—the existing capacity tiers and the all-new, completely flexible capacity pools, which allow you to increase capacity in increments of as little as 1TB. You can start with a few terabytes and dynamically add capacity as your project grows. And if you are using capacity pools, when your project is finished, you can redistribute the capacity as you see fit. To help accelerate deployment of new projects such as file services, home directories, software development environments, and application testing, ONTAP Select is easily integrated into cloud management frameworks such as VMware vSphere.

NetApp®

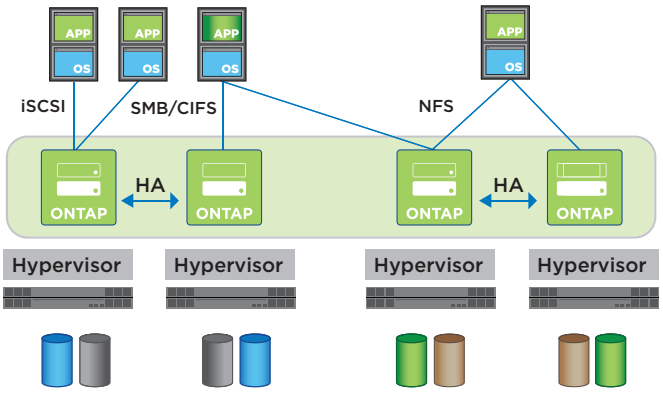

Figure 1) ONTAP Select delivers enterprise-class storage services with cloudlike agility on your choice of commodity hardware and hypervisor. A 4-node configuration is illustrated here.

For some projects, you might want to bring up an environment quickly to prove an idea. Later you might want to move the project to a dedicated storage platform for production deployment, or perhaps make it more accessible in the cloud as part of a development workflow. NetApp SnapMirror® software lets you easily move data between ONTAP storage across the hybrid cloud so that you can access your data where you want it, quickly and easily.

Get Enterprise Data Protection and Efficiency

NetApp ONTAP MetroCluster SDS and Snapshot data protection

ONTAP Select is built on ONTAP storage software to deliver enterprise storage services efficiently with a highly available, shared-nothing scale-out architecture. You can deploy a solution with 1, 2, 4, 6, or 8 nodes with up to 400TB of raw capacity for NFS, SMB/CIFS, and iSCSI connected storage per node. You can leverage native deduplication and compression to lower storage costs by increasing your effective capacity. The scale-out architecture enables not only high availability, but also nondisruptive data mobility for load balancing or to service hardware. ONTAP Select leverages all the robust features of ONTAP, including NetApp FlexCache® and FabricPool.

ONTAP Select MetroCluster SDS enables an automated zero-RPO solution with synchronous replication that allows nodes of an HA pair to be physically separated a maximum latency (RTT) of less than 10ms (distance independent) or 10km. Your data remains available and the services keep running even if one site goes down, ensuring site-to-site availability.

ONTAP Select includes robust integrated data protection features, including NetApp Snapshot™ and SnapMirror software. You can quickly and efficiently replicate your valuable data to other ONTAP storage, whether on the premises, at a remote site, or in the cloud. If you must recover your data quickly, NetApp SnapRestore® software can use local Snapshot copies to recover entire file systems or data volumes in seconds, regardless of the capacity or number of files.

Deliver a Data Center on a Server

Enable a one-box branch office data center

With ONTAP Select, you can cost effectively deploy enterprise storage in various use cases, including remote locations and mobile applications, where space and IT support might be limited. The result is that your remote sites can fully participate in your shared IT infrastructure without compromise.

About NetApp

NetApp is the data authority for hybrid cloud. We provide a full range of hybrid cloud data services that simplify management of applications and data across cloud and on-premises environments to accelerate digital transformation. Together with our partners, we empower global organizations to unleash the full potential of their data to expand customer touchpoints, foster greater innovation and optimize their operations. For more information, visit www.netapp.com. #DataDriven

	Standard License	Premium License	Premium XL License
Core Items			
Host protocols	NFS, SMB/CIFS, iSCSI	NFS, SMB/CIFS, iSCSI	NFS, SMB/CIFS, iSCSI
Deployment options	Single node, 2-node cluster (HA pair), or 4-, 6-, or 8-node cluster		
Supported capacity (per node)	Up to 400TB (ESXi) 100TB (KVM) raw	Up to 400TB (ESXi) 100TB (KVM) raw	Up to 400TB (ESXi) 100TB (KVM) raw
Hardware			
CPU family	Intel Xeon E5-26xx v3 (Haswell) or greater	Intel Xeon E5-26xx v3 (Haswell) or greater	Intel Xeon E5-26xx v3 (Haswell) or greater
Select CPU / Memory	4 vCPUs / 16GB of RAM	8 vCPUs / 64GB of RAM	16 vCPUs / 128GB of RAM
Host CPU / Memory minimum requirements*	6 cores / 24GB of RAM	10 cores / 72GB of RAM	18 cores / 136GB of RAM
Network (per node)	Min. 2 x 1GbE ports for a single node, Min. 4 x 1GbE ports for a 2-node (HA), and Min. 2 x 10GbE ports for a 4-, 6-, or 8-node		
Storage Types			
Local DAS with Hardware RAID controller			
HDD (SAS, NL-SAS, SATA)	8 - 60 drives	8 - 60 drives	8 - 60 drives
SSD	N/A	4 – 60 drives	4 – 60 drives
Local DAS with software RAID	N/A	4 – 60 drives (SSD only)	4 – 60 drives (SSD only) 4 – 14 drives (NVMe only)
Hyperconverged infrastructure***	NetApp HCI (a hybrid cloud infrastructure), VMware vSAN and other HCI products that are on the VMware HCL		
External arrays**	Datastores hosted on external arrays that provide high availability and resilience are connected via FC, FCoE, iSCSI, NFS		
Software			
Hypervisor support (VMware)***	VMware vSphere 6.0, 6.5, 6.7		
Hypervisor support (KVM)***	Red Hat Enterprise Linux 7.4, 7.5 7.6; CentOS 7.4, 7.5, 7.6		
Management software	NetApp OnCommand® management suite, ONTAP Select Deploy Utility, NetApp SnapCenter® (optional)		

*Assumes 2 cores and 8Gb RAM for the hypervisor **External array protocol support reflects networked storage connectivity

*** For minimum system requirements, see the NetApp Interoperability Matrix Tool (IMT)

Table 1) ONTAP Select is offered with three License options and is supported on a wide range of hardware. Consult the NetApp Interoperability Matrix Tool for up to-date hardware and software versions.

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