



## 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 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 as little as 1TB increments.
- 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 platform.
- Gain enterprise-class data reduction and data protection for NAS and SAN workloads.
- Dynamically scale and balance workloads non-disruptively
- Maintain uninterrupted data availability across multiple sites up to 10 kilometers apart with ONTAP Select MetroCluster SDS.

### Your Data Center Is 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 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 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 using flexible storage configurations

ONTAP Select converts a server's internal disk drives, SSD or HDD, as well as HCI and external array storage into an agile, flexible storage platform with many of the same benefits that dedicated storage systems based on NetApp ONTAP offer. You can deploy ONTAP Select on new servers or on your existing server infrastructure for added flexibility. ONTAP Select is simple to manage and leverages the same management software of ONTAP based solutions, so you can reduce 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.

With two complementary licensing models, the existing capacity tiers and the all-new, completely flexible capacity pools, that allow you to increase capacity in as little as 1TB increments, ONTAP Select adapts to your capacity consumption needs. You can start with a few terabytes and then dynamically add capacity as your project grows. And if you are using capacity pools, just take the capacity when you are done and redistribute it 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 OpenStack and VMware vSphere.

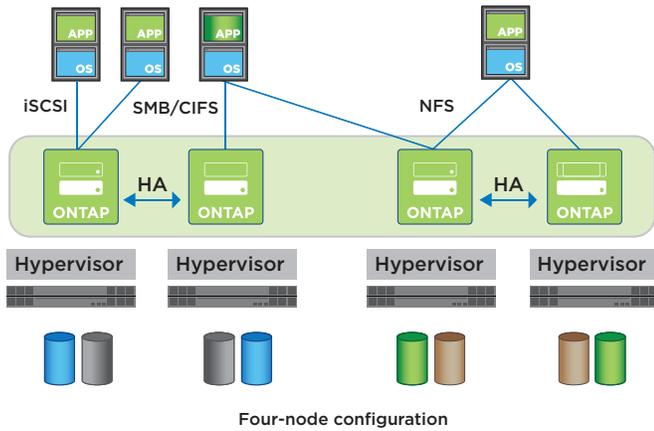


Figure 1) ONTAP Select delivers enterprise-class storage services with cloudlike agility on your choice of commodity hardware and hypervisor. A four-node configuration is highlighted here.

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 the leading ONTAP storage software to deliver enterprise storage services efficiently with a highly available, shared-nothing scale-out architecture. You can deploy a solution with one, two, four, six or eight 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 non-disruptive data mobility for load balancing or to service hardware. ONTAP Select leverages all of the robust features of ONTAP, including FlexCache and Fabric Pools, if there are no hardware dependencies.

ONTAP Select MetroCluster SDS enables an automated zero-RPO solution with synchronous replication that allows for nodes of an HA pair to be physically separated by up to 10km or 10ms RTT. Your data remains available and the services keep running even when 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 or 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.

	Standard License	Premium License
<b>Core Features</b>		
Host protocols	NFS, SMB/CIFS, iSCSI	NFS, SMB/CIFS, iSCSI
Deployment options	<ul style="list-style-type: none"> <li>• Single node</li> <li>• 2-node cluster (HA pair)</li> <li>• 4-, 6-, or 8-node cluster</li> </ul>	<ul style="list-style-type: none"> <li>• Single node</li> <li>• 2-node cluster (HA pair)</li> <li>• 4-, 6-, or 8-node cluster</li> </ul>
Supported capacity (per node)	Up to 400TB raw	Up to 400TB raw
<b>Hardware Requirements</b>		
CPU family	Intel Xeon E5-26xx v3 (Haswell) or greater	Intel Xeon E5-26xx v3 (Haswell) or greater
CPU cores (ONTAP Select)	4 virtual CPUs	4 or 8 virtual CPUs
Memory (ONTAP Select)	16GB RAM	16GB or 64GB RAM
Network (per node)	<ul style="list-style-type: none"> <li>• Min. 2 x 1GbE ports (single node)</li> <li>• Min. 4 x 1GbE ports (2-node)</li> <li>• Min. 2 x 10GbE ports (4-, 6-, 8-nodes)</li> </ul>	<ul style="list-style-type: none"> <li>• Min. 2 x 1GbE ports (single node)</li> <li>• Min. 4 x 1GbE ports (2-node)</li> <li>• Min. 2 x 10GbE ports (4-, 6-, 8-nodes)</li> </ul>
<b>Storage Types</b>		
Local DAS with Hardware RAID controller	Hardware RAID controller with 12Gbps throughput and 512MB internal battery-backed or flash (supercapacitor) cache	
HDD (SAS, NL—SAS, SATA)	8-60 drives	8-60 drives
SSD (SAS)		4-60 drives
Local DAS with Software RAID		4-60 drives (SSD only)
Hyper converged infrastructure	NetApp HCI, VMware vSAN 6.0, 6.1, 6.2 and other HCI products which are on the VMware HCL	
External arrays*	Datastores hosted on external arrays which provide high availability and resilience are connected via FC, FCoE, iSCSI, NFS	
Hypervisor support (VMware)	VMware vSphere 5.5, 6.0, 6.5, 6.7 (all licenses)	
Hypervisor support (KVM)	RedHat Enterprise Linux 7.2, 7.3, 7.4, 7.5, CentOS 7.2, 7.3, 7.4, 7.5	
Management software	<ul style="list-style-type: none"> <li>• NetApp OnCommand® management suite</li> <li>• ONTAP Select Deploy utility</li> <li>• SnapCenter® (optional)</li> <li>• FlexCache (optional)</li> <li>• FabricPools</li> </ul>	

\* External array protocol support reflects networked storage connectivity.

**Table 1) ONTAP Select is offered with two license option 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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## 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](http://www.netapp.com). #DataDriven