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 nondis-
  ruptively 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 nondisruptively.

## 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 that are 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 as for all solutions that are based on ONTAP, so you can reduce operational
overhead and training requirements.

## Increase Productivity Without Increasing Cost

**Cloudlike agility from the comfort of your data center**

Sometimes, you don't have time to order and deploy new hardware to capitalize on
a new idea or to begin a new proof of concept. 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.

Capacity is licensed on a per-node (per–virtual machine instance) basis in as little
as 1TB increments. The ONTAP Select capacity licenses relate to the total size of the
virtual data disks that are attached to the ONTAP Select virtual machine. You can start
with a few terabytes and then dynamically add capacity as your project grows. 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.

**■ NetApp®**
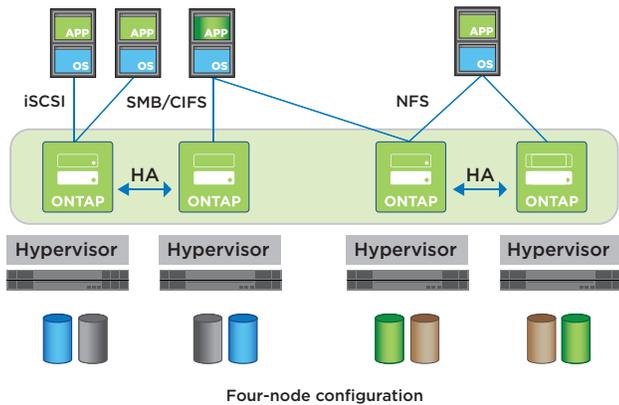
**Four-node configuration**

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 Snapshot software 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, or four nodes with up to 400TB of raw capacity for NFS, SMB/CIFS, and iSCSI connected storage. 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 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 |
|---|---|---|
| **Core Features** | | |
| Host protocols | NFS, SMB/CIFS, iSCSI | NFS, SMB/CIFS, iSCSI |
| Deployment options | • Single node<br>• 2-node cluster (HA pair)<br>• 4-node cluster (2 HA pairs) | • Single node<br>• 2-node cluster (HA pair)<br>• 4-node cluster (2 HA pairs) |
| Supported capacity (per node) | Up to 100TB raw | Up to 100TB raw |
| **Hardware Requirements** | | |
| 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) | • Min. 2 x 1GbE ports (single node)<br>• Min. 4 x 1GbE ports (2-node)<br>• Min. 2 x 10GbE ports (4-node) | • Min. 2 x 1GbE ports (single node)<br>• Min. 4 x 1GbE ports (2-node)<br>• Min. 2 x 10GbE ports (4-node) |
| **Storage Types** | | |
| Local DAS with RAID controller | Hardware RAID controller with 12Gbps throughput and 512MB internal battery-backed or flash (supercapacitor) cache | |
| Disk type: SSD | — | 4–24 disks |
| Disk type: SAS, NL-SAS, SATA | 8–24 disks | 8–24 disks |
| Hyper converged infrastructure | NetApp HCI, VMware vSAN 6.0, 6.1, 6.2 | |
| External arrays* | FC, FCoE, iSCSI, NFS | FC, FCoE, iSCSI, NFS |
| Hypervisor support (bare metal) | VMware vSphere 5.5, 6.0, 6.5 (all licenses)<br>KVM - Red Hat Enterprise Linux 7.2 | |
| Management software | • NetApp OnCommand® management suite<br>• ONTAP Select Deploy utility<br>• SnapCenter® (optional) | |

* External array protocol support reflects networked storage connectivity.

**Table 1) ONTAP Select is offered with two 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.**

## 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