



Datasheet

NetApp ONTAP Select

Software-defined data storage services for the hybrid cloud

Key Features

Flexible Deployment

- Deploy on your choice of commodity servers and hypervisors
- Leverage your existing server infrastructure 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 on the fly in as little as 1TB increments
- Easily move and replicate data nondisruptively across the hybrid cloud

Enterprise-Class Functionality

- Use software-defined storage built on ONTAP, the world's leading storage operating system
- 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

In order 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 your data in the cloud isn't for everyone. Retention policies may not permit data to be kept off site, and although it is easy to deploy, the cost to store data in the cloud can escalate quickly over time. And retrieving or repatriating data can be expensive in both time and money.

NetApp ONTAP Select offers robust enterprise storage services deployed on your choice of commodity hardware and hypervisor 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

Convert your server-side direct-attached storage (DAS) into enterprise storage

ONTAP Select converts a server's internal disk drives into an agile, flexible storage platform with many of the same benefits as dedicated storage systems based on NetApp ONTAP. You can deploy ONTAP Select on new servers or your existing server infrastructure for added flexibility. ONTAP Select is simple to manage and leverages the same management software as all solutions 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 in order to capitalize on a new idea or begin a new proof of concept. Because ONTAP Select is a software solution, you can purchase and deploy ONTAP Select in less than a day to get new projects up and running quickly. You can start with a few terabytes and then dynamically add capacity in increments as small as 1TB as your project grows. ONTAP Select can be easily integrated into cloud management frameworks such as OpenStack and vSphere to help you accelerate deployment of new projects such as file services, home directories, software development environments, and application testing.

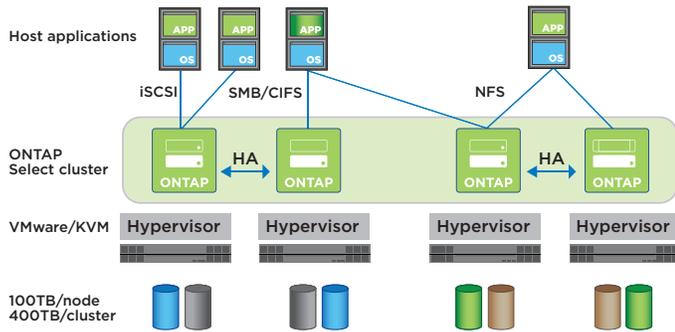


Figure 1) ONTAP Select delivers enterprise-class storage services with cloudlike agility on your choice of commodity hardware. A four-node configuration is highlighted here.

For some projects, you may want to bring up an environment quickly to prove out an idea, but later 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 you can place your data where you want it, quickly and easily.

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 node or scale to 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 Snapshot®, SnapMirror, and SnapVault® software, to quickly and efficiently copy and replicate your valuable data to other ONTAP storage, whether on premises, at a remote site, or in the cloud. If you need to recover your data quickly, SnapRestore® software can use local Snapshot copies to recover entire file systems or data volumes in seconds, regardless of capacity or number of files.

Data Center on a Server

Enable a one-box branch office data center

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

FEATURE	DESCRIPTION
Hypervisor support	<ul style="list-style-type: none"> VMware VSphere KVM hypervisor
Hardware requirements	<ul style="list-style-type: none"> Intel Haswell CPU (Xeon E5 v3) ONTAP Select virtual machine: 4 virtual CPUs/16GB memory Storage <ul style="list-style-type: none"> SAS, NL-SAS disk support Hardware RAID controller with writeback cache Network: minimum 2 x 10GbE ports
Deployment configurations	<ul style="list-style-type: none"> Single node Four-node cluster (2 HA pairs)
High availability	<ul style="list-style-type: none"> Minimum four-node cluster required for HA (2 HA pairs) <ul style="list-style-type: none"> Share-nothing architecture < 60-second failover for planned/unplanned outages
Capacity	<ul style="list-style-type: none"> Up to 100TB raw capacity per node, 400TB per cluster (4 x 100TB)
Management support	<ul style="list-style-type: none"> OnCommand® Unified Manager, System Manager, OnCommand Insight SnapManager®, SnapDrive® ONTAP Select Deploy (installation tool)

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

About NetApp

Leading organizations worldwide count on NetApp for software, systems and services to manage and store their data. Customers value our teamwork, expertise and passion for helping them succeed now and into the future.

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