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The ZFS NAS is powered by an Intel Xeon E5-2400 v2 processor and supports as much as 64 GB of DDR3 memory. CDW also offers a 48 TB version -- six 8 TB drives -- for \$5,699.99. The Hewlett Packard Enterprise (HPE) StoreEasy 1000 series consists of 15 different storage appliances, covering a wide range of prices and capabilities. Collectively, these nodes can deliver 172 PB of storage capacity. The appliance has a capacity of 72 TB to 144 TB per chassis, and each chassis has a throughput of 12 GBps. NetApp FAS8200 NAS device Like the FAS2700 series appliances, companies can scale the FAS8200 appliance to 24 nodes. The highest capacity offered by any of these appliances is 64 TB. In the interest of improving archive performance, the appliance can accommodate either four or eight SSDs that act as a storage cache. Simply put, FlashBlade should expand as a company's data grows. This distributed file system can scale to accommodate billions of files and can make those files available through a single namespace. QNAP has long been a player in the NAS space, but has historically focused on building high-end media server NAS appliances and is the best NAS product when a company is looking for that feature. The FlashBlade architecture is based on the use of 4U chassis. Qumulo arrays support a variety of protocols, including NFS, SMB, FTP and command-line interface. It has a capacity of up to 800 TB per chassis, and each chassis has a throughput of 8 GBps. Among Dell EMC's hybrid scale-out NAS offerings are the H400, H500, H5600 and H600. Users can remove this card or replace it with a dual-port, QSFP+ 40 GbE network interface controller. It has a capacity of 120 TB to 480 TB per chassis, and each chassis has a throughput of 3 GBps. The HNAS 4060 can scale to accommodate an 8 PB file system. Dell EMC designed the EMC Unity XT series for midrange storage needs and optimized the series for performance and efficiency. Hewlett Packard Enterprise StoreEasy NAS device The features and capabilities found among the models in the StoreEasy 1000 series vary from one appliance to the next. IBM Spectrum Scale is intended for enterprises that require massive scalability. Each of the HNAS appliances has a 3U rack height and can accommodate as much as a petabyte (PB) of storage The primary distinction between the three appliances is in their maximum physical file system size per cluster. Although NetGear is best known for its consumer-grade products, the company does offer an enterprise NAS. These appliances also provide high maximum capacities, ranging from 2.4 petabytes (PB) in the 380F to 16 PB in the 880F. In contrast, the D3710 enclosure includes 25 drive bays and sells for \$17,460.99 on Insight. FlashBlade is designed to scale to billions of files and objects because of its massive scale-out architecture. The HNAS 4060 and the HNAS 4080 both have up to 26 GB of nonvolatile RAM (NVRAM) on their main field-programmable gate array (FPGA) board and 16 GB of memory on the main motherboard. This appliance can be configured to provide either 10 TB, 20 TB or 50 TB of raw capacity, and it is designed to unify block, file and VMware Virtual Volumes storage. This device supports a maximum of 60 SATA drives per chassis, along with four to eight SSDs for caching. The third feature that Pure Storage offers is its scale-out blade. This appliance includes 16 drive bays, each supporting 12 Gbps SAS drives. CDW offers a diskless version for \$1,199.99. In addition, the NAS appliance is equipped with dual, active-active controllers so a secondary controller will take over if the primary one fails. In addition to the all-flash models, the Dell EMC Unity XT 380, 480, 680 and 880 are hybrid flash storage arrays. While the A2000 offers the same caching options as the A200, it seems unlikely that customers will invest in cache storage if using the appliance for deep archiving as Dell EMC suggests. This article outlines some of the available options to help you find the best NAS products for your organization. Each of these devices uses a densely packed 4U chassis. In addition, the device is certified for use with Windows Server 2016 and VMware. The H5600 supports a maximum of 80 SATA drives per chassis, along with four to eight SSDs for caching. The Dell EMC NAS appliances differ in terms of performance and capacity. Perhaps the most compelling of these features is the ransomware protection. In contrast, the A2000 has a fixed capacity of 800 TB based on the use of 80 10 TB disks. These capacities are based off disk capacity. The total capacity ranges from 120 TB to 480 TB per chassis. The device's DRAM write cache is battery protected to guard against data loss. QNAP does not seem to define an upper limit for the total amount of storage that the appliance can accommodate. Purity data provides services such as compression, encryption, thin provisioning, snapshots, high availability and rapid data locking. The Hitachi NAS appliances each support the NFS, SMB, FTP and iSCSI protocols. This appliance consumes a whopping 8U of rack space and scales to 24 nodes. The appliances also perform automatic data deduplication in a way that is transparent to the end user. The lower-end model is the H400, which fits four Isilon nodes into a 4U chassis. The FAS8200 adheres to a 3U form factor and can deliver a maximum capacity -- in a multi-node configuration -- of 57 PB. IBM offers a free 30-day trial that can run on Oracle VirtualBox, Kernel-based Virtual Machine (KVM) or VMware ESX. The F800 comes with twin 10 GbE SP+ or twin 40 GbE QSFP+ ports per node for front-end networking, and two InfiniBand or two 40 GbE QSFP+ ports per node for back-end networking. The ReadyNAS 2312 is a 1U that boasts the industry's highest storage density within a 1U form factor. Hitachi does not disclose pricing. This unit can provide as much as 24 TB of raw storage by combining four 6 TB HDDs and two 800 GB SSDs. Qumulo's highest-end offering is the QC360, a 4U appliance with twin 2.4 GHz, 6 core CPUs and 256 GB of RAM. The big difference between the models is scalability. Both of these appliances adhere to a 2U form factor and can scale to the multi-petabyte range. On the higher end is the HPE EasyStore 1660. What makes NetGear's approach unique, however, is it writes snapshots to a dedicated area designed to be tamperproof. The first appliance in QNAP's ZFS NAS series is the ES1640dc V2. The D3610 includes 12 drive bays and provides as much as 120 TB of additional capacity. The N600 scales to 7.1 PB of internal capacity, 24 standard expansion trays, 12 high-density expansion trays and 24 flash module expansion trays. The FAS2720 supports capacities from 24 TB to 17 PB, while the FAS2750 supports capacities from 10 TB to 15 PB. Storage capacity varies among the units. Dell designed the NX series of NAS appliances to provide an affordable option for organizations that need NAS storage but aren't necessarily looking for the largest or most feature-rich NAS. The Dell EMC Isilon A200 NAS Storage appliance consists of a 4 rack unit (U) chassis that accommodates as many as 60 SATA drives. In addition, companies can cluster the NX3240 to support up to 64 nodes. Although the vast majority of the specifications are the same for all three appliances, there are differences in memory and random IOPS. The A200, on the other hand, supports the use of 2 TB, 4 TB or 8 TB disks. Both the A200 and the A2000 include four Intel Pentium processors (D1508). Both units support up to 24 nodes. This appliance sells for \$11,019.99 and provides 32 TB of SAS storage. On the lower end of the scale, Qumulo offers its OC24 NAS, which houses a 3.5 GHz, 4 core CPUs and 64 GB of memory into a 1U chassis. Like any other enterprise hardware component, enterprise NAS tends to be expensive. Pricing for the NetGear ReadyNAS 2312 varies depending on whether storage is included. Collectively, these blades can provide petabytes of capacity and handle tens of thousands of clients. There are four chassis options in the NX series -- the NX440, NX430, NX3240 and NX3340. The NetApp FAS series consists of three different hybrid flash arrays for SAN or NAS storage. Those primarily interested in performance should look at the Isilon F series of all-flash NAS storage devices. Storage drive capacity * 2000 GB Storage drive interface * Serial ATA III Supported storage drive interfaces Near Line SAS (NL-SAS), Serial ATA Storage drive sizes supported 2.5,3.5" Total installed storage capacity * 2 TB Number of storage drives installed * 1 Installed storage drive type * HDD Supported storage drive types * HDD & SSD Processor manufacturer * Intel Processor generation 1st Generation Intel® Xeon® Scalable Processor family * Intel® Xeon® Processor frequency * 2.2 GHz Processor boost frequency 3 GHz PCI Express slots version 3.0 Processor codename Skylake Processor lithography 14 nm Processor operating modes 64-bit Processor package size 76.0 x 56.5 mm Processor socket LGA 3647 (Socket P) Thermal Design Power (TDP) 85 W Maximum internal memory supported by processor 768 GB Maximum RAM supported 64 GB Although network-attached storage devices are useful for smaller organizations, they also get significant use in the enterprise. The higher capacities are based on the use of multiple nodes. Dell designed this appliance for use in a VMware cloud software-defined data center. Dell EMC's product page does not provide performance or capacity statistics for this appliance. The VSP F400, N600 and N800 all support 64 virtual enterprise servers and 500 file systems. IBM Spectrum Scale is designed to use x86 servers, including Intel EM64T and AMD Opteron processors. Random IOPS for a dual-node configuration of the HNAS 4060, 4080 and 4100 are 147,957, 209,519, and 293,128, respectively. Hitachi Vantara HNAS storage appliance The Hitachi NAS products have integrated snapshot capabilities for data protection, and they have been engineered to support synchronous disaster recovery. The other offering within the Unity lineup is the Dell EMC Unity Cloud Edition. This unit can accommodate 360 TB of raw storage in the form of 36 10 TB HDDs and four 1.6 TB SSDs. Qumulo appliances run the Qumulo File System. In addition to its Isilon lineup, Dell EMC also offers a series of Unity XT storage appliances. Hitachi Vantara offers three enterprise class Hitachi NAS (HNAS) products that each support as many as 64 enterprise virtual servers and 500 file systems. It is also OpenStack ready and designed to work with KVM, Docker and Kubernetes. Both models have a maximum capacity of 924 TB per chassis. Along with its HNAS dedicated NAS platform, Hitachi also sells VSP N NAS modules for its Virtual Storage Platform SAN arrays. The second notable feature, according to Pure, is Purity for FlashBlade. Pure Storage provides enterprise-grade NAS functionality through its FlashBlade. The Unity XT Series consists of numerous appliance models, divided into various categories. It includes four 10 GbE SFP+ ports for iSCSI, NFS or CIFS communications. The A200 is aimed at general archive storage, while the A2000 is designed for deep archiving. A 75-blade architecture can deliver 75 GBps of throughput and can handle 7.5 million IOPS. The appliances also support the REST API. There is also a pre-installed card containing two 10 GbE (RJ45) ports. Clusters support the NFS and SMB protocols, object protocol nodes and Hadoop Distributed File System connectors. The top tier model in this series is the Dell EMC Isilon H600. The F800 and the F810 include four Intel Xeon processors (E5-2697A v4). Each chassis contains either eight 40 Gb ports or 32 10 GbE ports. The ReadyNAS 2312 offers a variety of data protection features. However, the FAS8200 is designed to deliver a higher capacity than the FAS2700. All of these chassis are 1U rack mountable, except for the NX3240, which is a 2U rack mountable chassis. The company does not disclose pricing. It supports a maximum of 120 SAS drives per chassis, along with four to eight SSDs for caching. Spectrum Scale can store 9 quintillion files per file system and can handle individual files that are as large as 8 exabytes. Pure Storage claims there are three key features that make FlashBlade worthy of consideration. The storage is configured as eight 4 TB drives. Each node requires a minimum of 1 GB of memory and a supported OS. Dell EMC also offers the Unity VSA, which supports high availability and allows for as much as 50 TB of storage in VMware environments. They are designed to provide better performance than other Unity XT models and feature 5:1 inline deduplication. NetGear does not seem to offer a model preloaded with its maximum storage capacity. These archiving appliances include the Dell EMC Isilon A200 and A2000. Not even the administrator can directly access the snapshot storage. The HNAS 4080 doubles that capacity with a maximum physical file system size per cluster of 16 PB, and the HNAS 4100 has a 32 PB maximum file system per cluster. Likewise, both appliances supply front-end connectivity through two 10 Gigabit Ethernet (GbE) SFP+ ports. This is evident in each appliance's capacity and caching options. Not surprisingly, Spectrum Scale servers use clustering to achieve this massive scalability. While a Spectrum Scale can be used in a stand-alone configuration, it can also be formed into clusters consisting of as much as 16,384 individual nodes. The N400 supports a 2 PB file system per system, and the N600 and N800 support 6.5 PB file systems. The F800 has a minimum capacity of 96 TB, while the F810 has a minimum capacity of 230 TB. The company also offers this file system for use on Dell EMC and Hewlett Packard Enterprise NAS appliances. Appliances in the Dell Storage NX family have a starting price of \$2,499 and go up from there. The N400 scales to 4.7 PB Internal raw capacity and supports 16 standard expansion trays, eight high-density expansion trays or 16 flash module expansion trays. The first is an elastic fabric, creating separate virtual networks that isolate client, metadata and data traffic, while allowing SLAs to be defined for each. The QNAP appliance supports common enterprise NAS features such as deduplication, compression and snapshots. This series includes the F800 and the F810, both of which can deliver as much as 250,000 IOPS per chassis. Both NAS appliances conform to a 4U design and have a throughput of as much as 15 GBps per chassis. For example, Dell EMC Unity XT models 380F, 480F, 680F and 880F are all-flash storage appliances. Dell EMC's comparison page does not list the networking specs for the F810, but given the similarities between the two units, it seems likely that they support identical networking configurations. As such, it is important to research the available options prior to making a purchasing decision. For those organizations that prefer a perpetual license, pricing starts at \$618 per terabyte per month. NetGear ReadyNAS 2312 storage appliance In addition, NetGear's ReadyNAS 2312 is certified for VMware compatibility and includes built-in antivirus capabilities, as well as bit rot protection to guard against media degradation. It sells for \$21,800.99 on Insight. Businesses can use either HPE D3610 (large form factor) or D3710 (small form factor). In addition, Qumulo arrays provide support for erasure coding, continuous replication, snapshots and auditing. It has a capacity of 120 TB to 480 TB per chassis, and each chassis has a throughput of 5 GBps. IBM supports IBM AIX, Red Hat and SUSE Linux, Windows Server, Microsoft Windows 7 and IBM Z Systems. In contrast, the HNAS 4100 has up to 68 GB of NVRAM on its FPGA board and 32 GB of RAM on its main motherboard. The most modest of the StoreEasy 1000 series is the HPE StoreEasy 1560, which is an 8 TB SATA storage device -- allowing for four 2 TB drives -- that sells for \$4,790.99. Each of these NAS appliances is compatible with Dell EMC OpenManage, and supports the use of data deduplication, File Classification Infrastructure and the File Server Resource Manager. More recently, QNAP has entered the enterprise NAS market with its Z File System (ZFS) NAS. The H500 supports a maximum of 60 SATA drives per chassis, along with four to eight SSDs for caching. Qumulo offers a variety of NAS products that provide hybrid HDD and SSD storage. Pricing starts at \$18 per terabyte, per month. This unit includes 12 drive bays and when used with 12 TB drives, can provide up to 144 TB of storage space. However, most seem to support protocols such as SMB, NFS, iSCSI over Ethernet, FTTP and HTTPS. Both appliances include 60 drive bays, but the F800 supports a minimum disk size of 1.6 TB, while the minimum disk size for the F810 is 3.84 TB. Because IBM Spectrum Scale is a software product rather than a physical NAS appliance, its pricing is based on the volume of data stored. They offer the same maximum capacities and data reduction features as their all-flash counterparts, but they are designed as hybrid storage appliances. Both appliances also include either two InfiniBand or two 10 GbE ports for infrastructure connectivity. The QNAP ZFS appliance offers several options for connectivity. On the lower end is the NX430, which has a 40 TB raw capacity based on the use of four 10 TB disks. Additionally, all of the StoreEasy products are expandable using an external enclosure. Dell EMC Isilon A200 NAS storage appliance The Dell EMC Isilon series includes a collection of hybrid NAS devices, designed to act as scale out storage. The lower-end option is the FAS2700 series, which consists of two different appliances -- the FAS2720 and the FAS2750. Additionally, the appliances allow for HTTPS (S3) connectivity to the cloud. Dell EMC provides several different flavors of its Isilon NAS appliances. The N800 scales to 14.1 PB of internal capacity, 48 standard expansion trays, 24 high-density expansion trays and 48 flash module expansion trays. All of the appliances use Intel Xeon processors. The NX440 and NX430 run the Windows Storage Server 2016 Standard Edition or Workgroup Edition OS, while the NX3240 and NX3340 run Windows Storage Server 2016 Standard Edition. The highest capacity model is the NX3240, which has a maximum raw capacity of 192 TB based on the use of sixteen 12 TB disks. HPE offers several other StoreEasy appliances, for which online pricing is not available. NetApp's high-end offering is the FAS9000. Like many other enterprise-class NAS appliances, the ReadyNAS 2312 continuously creates storage snapshots used to revert to a previous state in the event of a ransomware infection. Although Pure Storage does not seem to provide information on the upper limits of its architecture, a data sheet indicates that the system can accommodate at least 75 blades. The Dell EMC Isilon line includes NAS appliances designed for data archiving.

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