

Amazon FSx for NetApp ONTAP Pricing

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Amazon FSx for NetApp ONTAP

Overview Features File Systems Pricing Getting Started Resources FAQs

SSD storage: You pay for the average amount of storage provisioned for your file systems per month, measured in gigabyte-months (GB-months).

SSD IOPS: By default, 3 IOPS are included for every GB of SSD storage. You can optionally provision a higher level of IOPS, and you pay for the average IOPS provisioned above your included rate for the month, measured in IOPS-months.

Capacity Pool usage: Capacity pool storage is elastic storage that's cost-optimized for infrequently-accessed data. Amazon FSx automatically transitions data from SSD storage to capacity pool storage based on your access patterns. With capacity pool storage, you pay only for the storage space consumed. Specifically, you pay for the average amount of storage consumed per month, measured in GB-months. For data that is in capacity pool storage, you also pay requests costs (per read and write operation) whenever the data is accessed.

Throughput capacity: You pay for the average throughput capacity you've provisioned for your file systems per month, measured in MBps-months. The cost to transfer data between Availability Zones (AZs) for replication of data is included in the throughput capacity price.

Backups: With backups, you pay only for the storage space consumed. Backups are incremental, which means that only the changes after your most recent backup are saved, so you save on storage costs by not duplicating data. You pay for the average amount of backup storage consumed per month, measured in GB-months.

S3 requests: You pay for S3 requests when accessing data stored on your FSx for ONTAP file systems using S3 Access Points.

Data transfer: When accessing data using an Amazon S3 Access Point attached to your FSx for NetApp ONTAP file system, you pay for all bandwidth into and out of S3 just as you would when accessing data stored in an S3 bucket and all the existing S3 data transfer exceptions apply. For more information, visit the [Amazon S3 pricing page](#).

Effective storage pricing for a typical file system (select AWS Regions)

Amazon FSx for NetApp ONTAP supports ONTAP's storage efficiency features (compression and deduplication) to reduce the storage capacity that your data consumes. You can enable compression and deduplication for data in SSD storage, capacity pool storage, and backups. Typical savings are as follows:

Region effective storage price (\$/GB-month)*

Region	Single-AZ deployment	Multi-AZ deployment
US East (N. Virginia)	\$0.022	\$0.042
US West (Oregon)	\$0.022	\$0.042
Africa (Cape Town)	\$0.029	\$0.053
Asia Pacific (Seoul)	\$0.025	\$0.047
Canada (Central)	\$0.024	\$0.046
Europe (Ireland)	\$0.024	\$0.045
AWS GovCloud (US-East)	\$0.032	\$0.061

* For a general-purpose file sharing workload with storage efficiency savings and capacity pool tiering. See the pricing example below for details on how we calculate effective storage pricing.

Pricing

Single-AZ 1 deployment	Multi-AZ 1 deployment	Single-AZ 2 deployment	Multi-AZ 2 deployment	Data transfer	S3 Access Points for FSx
Region:					
Europe (London) ▼					
Storage					
			Effective cost with storage compression + deduplication enabled*	Pricing	
SSD storage capacity			\$0.05075 per GB-month	\$0.145 per GB-month	
Standard capacity pool storage consumed			\$0.008015 per GB-month	\$0.0229 per GB-month	
Backup storage			\$0.01855 per GB-month	\$0.053 per GB-month	
Performance and requests					
			Pricing		
Throughput capacity			\$0.856 per MBps-month		
SSD IOPS			\$0.0187 per IOPS-month		
Capacity pool read requests			\$0.00042 per 1000 requests		
Capacity pool write requests			\$0.0053 per 1000 requests		
*Assuming typical compression + deduplication savings of 65% for general-purpose file sharing workloads					

Pricing examples

Example 1: Multi-AZ deployment

Assume you want to store 100 TB of data in the US East (N. Virginia) Region for an application where 80% of the data is infrequently accessed (industry research and customer analysis shows that on average, 20% of files are actively used and 80% are infrequently accessed). To reduce your storage costs, Amazon FSx automatically tiers 80% of your data (80 TB of data) to the capacity pool tier while keeping the remaining 20% of your data (20 TB of data) in SSD storage.

Based on typical storage efficiency savings (65% for general-purpose file sharing workloads), you provision 7 TB of SSD storage capacity for the 20 TB of actively accessed data, and you use 28 TB of capacity pool storage for the remaining 80 TB of data.

Assume you provision 1,024 MBps of throughput capacity (50 MBps of throughput capacity per TB of SSD data) and have an average of 100TB of backup data during the month. Based on typical storage efficiency savings for backups (65%), you use 35 TB of backup storage to store the 100 TB of backup data.

Total monthly charge:

SSD storage: 7 TB * \$0.250/GB-month = \$1,792/mo

Capacity pool storage: 28 TB * \$0.0438/GB-month = \$1,256/mo

Throughput: 1,024 MBps * \$1.20/MBps-month = \$1,229/mo

Total monthly charge (excluding backups): \$4,277 (\$0.042/GB-mo for 100 TB of data)

Backups: 35 TB * \$0.050/GB-month = \$1,792/mo

Total monthly charge (including backups): \$6,069 (\$0.059/GB-mo for 100TB of data)

- Industry research and customer analysis shows that on average, 20% of files are actively used and 80% are infrequently accessed.
- For more pricing examples, see the [Reducing Storage Cost FAQs](#).

Example 2: Single-AZ deployment

Assume you want to store 10 TB of data in the US East (N. Virginia) Region for an application where 100% of the data is stored in SSD. Based on typical storage efficiency savings (65% for general-purpose file sharing workloads), you provision 3.5 TB of SSD storage capacity for the 10 TB of SSD data. Assume you want to provision 20,000 SSD IOPS for your workload. By default, 3 SSD IOPS are included for every GB of SSD storage. For 3.5 TB of SSD storage, you get 10,752 IOPS included. If you provision 20,000 SSD IOPS for your file system, you will be charged for the additional 9,248 SSD IOPS (20,000 - 10,752 = 9,248).

Assume you provision 512 MBps of throughput capacity (50 MBps of throughput capacity per TB of SSD data) and have an average of 10 TB of backup data during the month. Based on typical storage efficiency savings for backups (65%), you use 3.5 TB of backup storage to store 10 TB of backup data.

Total monthly charge:

SSD storage: 3.5 TB * \$0.125/GB-month = \$448/mo

Throughput: 512 MBps * \$0.72/MBps-month = \$369/mo

Additional SSD IOPS (for 3.5 TB of storage, 10,752 IOPS are already included): 9,248 * \$0.017/IOPS-month = \$157/mo

Total monthly charge (excluding backups): \$974 (\$0.095/GB-mo for 10 TB of data)

Backups: 3.5 TB * \$0.050/GB-month = \$179/mo

Total monthly charge (including backups): \$1,153 (\$0.112/GB-mo for 10 TB of data)

- For more pricing examples, see the [Reducing Storage Cost FAQs](#).

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