

SoftNAS Cloud vs. Amazon Elastic File System (EFS)

When choosing a cloud data storage product, it's critical to understand the differences between an enterprise-class, full-featured NAS virtual storage appliance like SoftNAS Cloud® versus Amazon EFS, which provides **basic file services** functionality. SoftNAS Cloud enables:

- **High Performance** – Achieve maximum I/O for any data amount without managing EFS burst credits.
- **Price/Performance Tuning** – Choose any combination of EC2 instance size and EBS or S3 storage backend to use with SoftNAS Cloud
- **Enterprise-Class Data Protection** – High availability, snapshots, encryption at-rest / in-flight keep your data safe in multi-tenant clouds
- **Multi-Cloud Support** – Avoid data lock-in by creating a common data control plane across public and private clouds including Microsoft Azure and VMware

The below summary matrix highlights some of the key feature differences between SoftNAS Cloud and Amazon EFS.

Capabilities / Features	SoftNAS Cloud®	Amazon EFS
COST EFFECTIVE		
Compression (Saves on Storage Capacity Used / Billed)	✓	✗
Deduplication (Saves on Storage Capacity Used / Billed)	✓	✗
Optimum Price/Performance: Customer Choice of Best Combination of Compute Instances and Object/Block Storage	✓	✗
DATA PROTECTION		
Instant Storage Snapshots	✓	✗
Rapid Snapshots Rollback Ability	✓	✗
Writable Snapshot Clones	✓	✗
NFS LDAP Authentication	✓	✗
Active Directory Integration	✓	✗
No Storage Downtime Guarantee™ SLA	✓	✗
PERFORMANCE		
High Performance, No Burst Limits	✓	✗
Dedicated Storage Throughput Performance	100% Dedicated	✗
FLEXIBILITY		
Multi-Cloud Support (Private, Public, Hybrid, Azure, AWS and other Clouds)	✓	✗

Burst credits are earned and in a shared environment dedicated performance is not possible. File systems burst to 100 MiB/s of throughput, and those over 1 TiB large can burst to 100 MiB/s per TiB of data stored in the file system. EFS burst credits earned at baseline rate of 50 MiB/s per TiB of storage.
<http://docs.aws.amazon.com/efs/latest/ug/performance.html#bursting>