

COMPARING AMAZON EBS AND EFS

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AMAZON EBS OVERVIEW

“EBS provides high-performance block storage service designed for use with EC2 for both throughput and transaction-intensive workloads at any scale.”



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EBS SNAPSHOT FEATURE

“Back up your volumes at any point in time with EBS Snapshots. These are point-in-time copies of volumes that can be easily archived to cut costs by 75% using the Snapshot Archive feature.”



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AMAZON EBS ENCRYPTION

“Utilize AWS KMS for encryption to secure data at rest and in transit, ensuring minimal performance impact.”



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AMAZON EBS PROS & CONS

- **Pros:** Highly flexible, can be resized or changed, and allows for single-instance attachment with consistent and low-latency performance.
- **Cons:** Limited to one AZ; to move data, snapshots are necessary. More suitable for tasks requiring consistent IOPS.



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AMAZON EFS OVERVIEW

“Managed file storage service for use with AWS Cloud services and on-premises resources, scaling on demand to petabytes without disrupting applications.”



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EFS STORAGE CLASSES

“Automatically move files between two storage classes - Standard and Infrequent Access (IA) - with EFS Lifecycle Policies to optimize cost.”



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AMAZON EFS PERFORMANCE

“Set performance mode based on use case - General Purpose for latency-sensitive scenarios or Max I/O for high operations rate.”



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PROS

CONS

AMAZON EFS

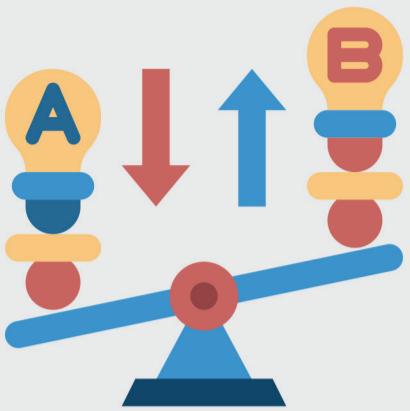
PROS & CONS

- **Pros:** Multiple EC2 instances can mount an EFS simultaneously, offering high availability and durability across AZs.
- **Cons:** Higher cost per storage compared to EBS; performance can vary depending on workload characteristics.



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PERFORMANCE COMPARISON

- **EBS:** Ideal for applications requiring stable IOPS, such as databases. Offers consistent performance with options to independently scale IOPS for varying needs.
- **EFS:** Best for applications needing wide data accessibility, like content management systems. Supports thousands of NFS connections and scales automatically for high throughput demands.



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PRICE COMPARISON

- **EBS:** More budget-friendly for block storage tied to single instances. Costs are based on the storage and IOPS provisioned, allowing for predictable budgeting.
- **EFS:** Higher initial costs but provides value through scalability and cost-saving via its Infrequent Access storage tier. Suited for environments that require robust multi-access capabilities.



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