AWS EFS: Elastic File System

Explore Amazon's scalable, fully managed file storage solution for cloud and on-premises resources.

Introduction to AWS EFS

Amazon Elastic File System (EFS) provides scalable, fully managed file storage for AWS cloud services and on-premises resources. It's designed for ease of use, high availability, and cost-effectiveness across various applications.

Key Features: Scalability & Availability

Scalability

EFS automatically scales storage capacity up or down, handling petabytes of data and thousands of concurrent connections.

Availability & Durability

Data is stored across multiple Availability Zones (AZs) for high availability and durability.

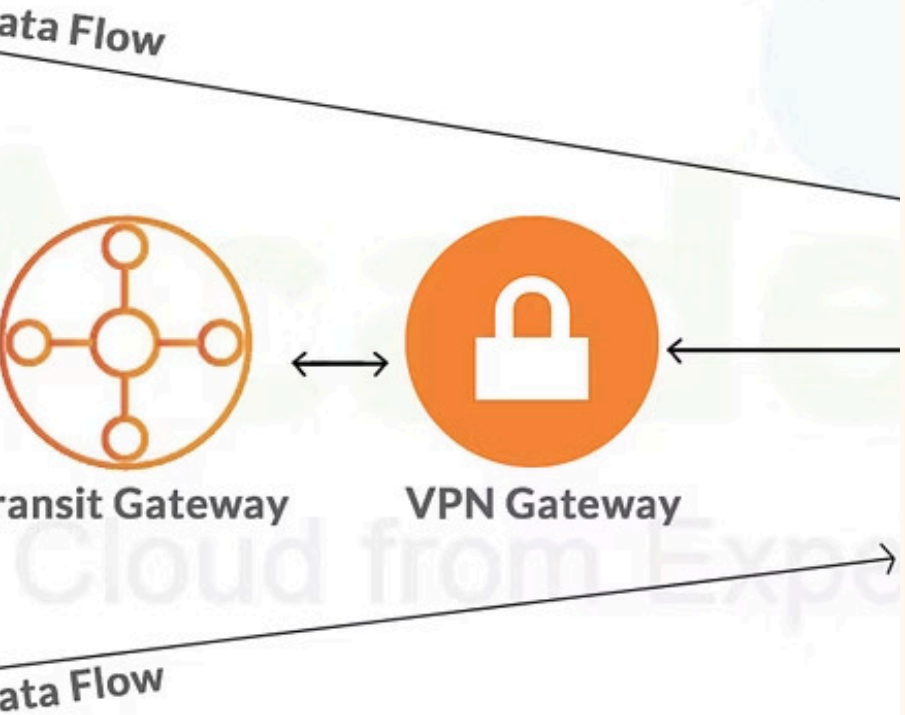
Key Features: Performance & Security

Performance

EFS offers low-latency performance for big data analytics, media processing, and web serving workloads.

Security

Integrates with AWS IAM for access control and supports encryption at rest via AWS KMS.



Key Features: Integration

Seamless Integration

EFS integrates with AWS services like EC2, Lambda, ECS, and Batch for easy shared file access.

Use Cases for AWS EFS

Content Management

Centralized storage for files and media assets with concurrent access.

Big Data Analytics

Storing and processing large datasets for analytics and ML applications.

Web Serving & CMS

Scalable backend storage for websites and web applications.

Development & Testing

Storing code, build artifacts, and development environments.

Real-World Applications

Zynga

Stores game assets and configurations across AWS regions.

FINRA

Scalable storage for market data and analytics.

GE Healthcare

Stores and processes medical imaging data securely.

Shutterstock

Centralized storage for media assets.

Conclusion

AWS EFS offers a reliable, scalable, and cost-effective file storage solution. Its integration with other AWS services and high performance make it crucial for modern cloud applications.