Category:

Storage

Amazon Elastic File System (Amazon EFS)

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What?
- Amazon EFS is a fully managed service providing NFS shared file system storage for Linux workloads.
- It provides a highly durable and highly available shared filesystems for AWS compute services (Amazon EC2, AWS Lambda Amazon container services - Amazon ECS, Amazon EKS, AWS Fargate) and on-premises resources.

Why?
- It automatically grows and shrinks as you add and remove files and bursts to higher throughput levels when necessary.
- It supports the Network File System version 4 (NFSv4.1 and NFSv4.0) protocol, so the applications and tools that you use today work seamlessly with Amazon EFS.

When?
- You want to create a shared file system that can be accessed concurrently from multiple NFS clients.
- You need file system access semantics, such as strong data consistency and file locking.
- You want to control access to your file systems through Portable Operating System Interface (POSIX) permissions.

Where?
- Amazon EFS is a regional service.
- To access your Amazon EFS file system in a VPC, you create one or more mount targets in the VPC. An Amazon EFS file system can only have mount targets in one VPC at a time. Mount targets themselves are designed to be highly available.

Who?
- The service manages all the file storage infrastructure for you, meaning that you can avoid the complexity of deploying, patching, and maintaining complex file system configurations.

How?
- With Amazon EFS, you can create a file system, mount the file system using mount target (IP address for an NFSv4 endpoint) on supported service, and then read and write data to and from your file system.
- Once mounted, you can work with the files and directories in your file system just like you would with a local file system.

How much?
- You pay for storage capacity, request (read and write), and for any provisioned throughput.
- Amazon EFS offers four storage classes to suit your data access and availability requirement.