

AWS

Persistent storage

Amazon Elastic Block Storage (EBS)

Persistent storage device that can be attached to a **single** EC2 instance to be used as a file system for databases and storage

Types of EBS

- **General Purpose SSD (GP2)** - general purpose, can burst up to 3000 IOPS for volumes under 1 GB
- **Magnetic HDD (Standard)** - lowest cost bootable storage, meant for infrequently accessed workloads
- **Provisioned IOPS SSD (IO1)** - use if need more than 10,000 IOPS, can provision up to 20,000 IOPS
- **Throughput optimised HDD (ST1)** - used for big data
- **Cold HDD (SC1)** - lowest cost meant for infrequently access workloads

Amazon Elastic File Storage (EFS)

Amazon Elastic File Storage (EFS) is a managed, scalable network file system that can be shared across **multiple** EC2 instances.

You can create a file system, mount the file system on an Amazon EC2 instance, and then read and write data to and from your file system.

EFS and EBS volumes can be created from the AWS Console or CLI. You can choose whether to encrypt the volume and the Availability Zone in which to create the volume. EBS volumes can only be attached to EC2 instances within the same Availability Zone.