What is Amazon EBS?

Amazon Elastic Block Store (EBS) is a scalable, high-performance block storage service designed for use with Amazon EC2 for both throughput and transaction-intensive workloads at any scale. It is used for persistent storage of data and can be attached to an EC2 instance to store data persistently beyond the lifetime of the instance

How does Amazon EBS work?

Amazon EBS provides persistent block-level storage volumes for use with Amazon EC2 instances. Each EBS volume is automatically replicated within its Availability Zone to protect you from component failure, offering high availability and durability. EBS volumes can be attached to EC2 instances and can be used as primary storage for data that requires frequent and granular updates.

What are EBS snapshots and how are they used?

EBS snapshots are point-in-time backups of EBS volumes. They are stored in Amazon S3 and can be used to create new EBS volumes. Snapshots are incremental, meaning that only the blocks that have changed since the last snapshot are saved, reducing the time and storage costs associated with backups. You can use snapshots to migrate data across regions, create identical copies of volumes, and restore data to an earlier state.

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What types of volumes does EBS offer?

EBS offers SSD-backed (gp2, gp3, io1, io2) and HDD-backed (st1, sc1) volumes.