**Slide 1: Overview of Amazon S3**

* **Title**: Amazon S3 (Simple Storage Service)
* **What is Amazon S3?**
  + An object storage service offering industry-leading **scalability, availability, security, and performance**.
  + Allows you to store and protect any amount of data from anywhere for use cases such as **data lakes**, **cloud-native apps**, **machine learning**, **analytics**, **backup**, and **archive**.
* **Key Features**:
  + **Durability & Availability**: 99.999999999% (11 9's) durability, ensuring long-term data storage reliability for millions of customers.
  + **Scalability**: Automatically scales storage to meet growing demand.
  + **Security**: Provides end-to-end encryption (data at rest and in transit).
  + **Cost-Efficient**: Integrates with low-cost storage options like **S3 Glacier** for long-term archiving.

**Slide 2: Applications of Amazon S3**

* **Use Cases**:
  + **Data Lakes & Analytics**: Enables running big data analytics, AI, and machine learning applications.
  + **Cloud-Native Applications**: Supports fast, scalable web and mobile apps.
  + **Backup & Restore**: Meets compliance and recovery requirements using S3’s replication features.
  + **Archiving**: Use **S3 Glacier** to store archived data at the lowest cost, simplifying long-term storage management.
* **Real-World Example**:
  + **BBC Archives**: Migrated **25 PB of data** to AWS using S3, transforming 100-year-old archives.
  + **Carrier Global**: Utilized S3 to scale AI-driven energy solutions.
  + **Roche**: Saved **90%** in storage costs by automating data archiving with S3.