AWS -RDS

Day 1: Introduction to AWS and RDS

- Overview of Cloud Computing and AWS
- Understanding Managed Database Services
- Introduction to Amazon RDS
- Benefits and Use Cases of Amazon RDS

Day 1: Exploring RDS Database Engines

- Supported Database Engines (MySQL, PostgreSQL, Oracle, SQL Server, MariaDB)
- Choosing the Right Database Engine for Your Use Case
- Creating Your First RDS Database Instance
- Configuring Database Parameters

Day 2: Managing RDS Instances

- Security Groups and Network Configuration
- Backing Up and Restoring RDS Instances
- Monitoring Performance and Utilizing Logs
- Scaling and Replicating RDS Instances

Day 2: Advanced RDS Concepts

- High Availability with Multi-AZ Deployments
- Read Replicas for Improved Read Scalability
- Performance Tuning and Optimization Strategies
- Data Migration to and from RDS

Day 2: Security and Compliance

- Data Security in Amazon RDS
- IAM Authentication and Database User Management
- Encryption at Rest and in Transit
- Compliance and Auditing Best Practices