AWS Solution Architect Associate

Month 1: Foundations and Core Services

Week 1-2: Introduction to AWS and Cloud Concepts

- Overview of AWS services and solutions
- Understanding cloud concepts and advantages
- AWS Free Tier and basic navigation

Week 3-4: Compute Services - EC2 and Lambda

- Understanding EC2 instances and their use cases
- Introduction to Lambda for serverless computing
- Load balancing and auto-scaling with EC2

Month 2: Storage, Databases, and Networking

Week 1-2: Storage Services - S3, EBS, and Glacier

- Deep dive into Amazon S3 for object storage
- Elastic Block Store (EBS) for block storage
- Archiving with Amazon Glacier

Week 3-4: Databases - RDS, DynamoDB

- Introduction to Relational Database Service (RDS)
- NoSQL databases with DynamoDB
- Database scaling and replication strategies

Week 5-6: Networking Services - VPC, Route 53, CloudFront

- Fundamentals of Virtual Private Cloud (VPC)
- Domain registration and DNS with Route 53
- Content Delivery Network (CDN) with CloudFront

Month 3: Security, Monitoring, and Advanced Topics

Week 1-2: Security Services - IAM, KMS

- Identity and Access Management (IAM)
- Key Management Service (KMS) for encryption
- Best practices for securing AWS resources

Week 3-4: Monitoring and Management Tools - CloudWatch, CloudTrail

- Monitoring with Amazon CloudWatch

- Auditing and logging with AWS CloudTrail

- Automation and management tools like AWS Systems Manager

Week 5-6: Advanced Topics and Exam Preparation

- Architectural best practices and design patterns

- Reviewing sample questions and practice exams

- Final project: Creating a well-architected solution