**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