# SAA-C03: AWS Solutions Architect Associate, Part 5 of 9: Serverless, Machine Learning and RDS



**Meet the expert:** Zeal works primarily as a Cloud Security Consultant guiding organizations to re-build their infrastructure with security in mind. Zeal also holds more then 13+ certifications ranging from RedHat Certified Architect to AWS Security.

**Prerequisites:** AWS Account and base knowledge of AWS services

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**Course description:** AWS Certified Solutions Architect Associate is for individuals who want to design cost-efficient, fault-tolerant systems on AWS. This course covers Server less computing, Machine learning, DynamoDB and Neptune.

**Course outline:**

**Intro to Serverless Computing**
- Introduction
- Intro to Serverless Computing
- AWS Lambda
- Summary

**Introduction to API**
- Introduction
- Introduction to API
- API
- Building Function
- Building API with API Gateway
- Endpoint Types
- Summary

**DataSync**
- Introduction
- DataSync
- Demo: DataSync
- Summary

**Amazon Athena**
- Introduction
- Amazon Athena
- Amazon AppFlow
- AWS Cost Explorer
- AWS Transfer Family
- Summary

**AWS Machine Learning**
- Introduction
- Amazon Comprehend
- Amazon Translate
- Amazon Textract
- Amazon Lex
- Amazon Transcribe
- Amazon Kendra
- AWS Rekognitions
- Summary

**Databases Part 1**
- Introduction
- Intro to Databases
- RDS
- Demo: RDS
- RDS Connect via EC2
- Delete RDS
- RDS Read Replica
- Demo: Read Replica
- Summary

**Databases Part 2**
- Introduction
- RDS Multi-AZ
- RDS Proxy
- RDS Custom
- RDS DB Instance Storage
- Summary

**Databases Part 3**
- Introduction
- Overview of Amazon Aurora
- Overview of Aurora Serverless
- Aurora Global Database
- RDS Storage AutoScaling
- RDS Event Notification
- AWS ElastiCache
- Basics of NoSQL
- Summary

**Dynamo DB**
- Introduction
- DynamoDB Basics
- Core Components
- Consistency Model
- RCU and WCU
- Capacity Mode
- DynamoDB Streams
- Global Tables
- Summary

**Amazon Neptune**
- Introduction
- Amazon Neptune
- AWS Secrets Manager
- Overview of Database Migration Service
- Summary