APPLIED TECHNOLOGY ACADEMY

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Advanced Architecting on AWS Training

Award Winning Training · Applied Technology Academy

This course introduces specialized AWS services, including AWS Direct Connect and AWS Storage Gateway, to support Hybrid architecture. It also covers designing best practices for building scalable, elastic, secure, and highly available applications on AWS.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Advanced	**3 Days**	**4 years: Cloud & Solutions Architects**	**$166,000**	**Yes**

Course Overview

At the end of this course, you will be able to:

- Apply the AWS Well-Architected Framework
- Manage multiple AWS accounts for your organization
- Connect on-premises datacenter to AWS cloud
- Discuss billing implications of connecting multi-region VPCs
- Move large data from on-premises datacenter to AWS
- Design large datastores for AWS cloud
- Understand different architectural designs for scaling a large website
- Protect your infrastructure from DDoS attack
- Secure your data on AWS with encryption
- Design protection of data-at-rest as well as data-in-flight
- Enhance the performance of your solutions
- Select the most appropriate AWS deployment mechanism

Course Outline

- **Lesson 1**
  - Architecting on AWS Review
  - AWS Account Management
  - Advanced Networking on AWS
  - Deployment Management on AWS
  - Build a Hybrid Architecture
- **Lesson 2**
  - Optimize your use of Amazon S3
  - Leverage Amazon ElastiCache to handle and store data at scale

  - Build a Failover Solution with Amazon Route 53 and Amazon RDS Read Replication
  - AWS Snowball
  - Amazon S3 Transfer Acceleration
  - AWS Storage Gateway
  - Backing up and archiving data on AWS
  - Migrating databases into AWS
  - Designing for Big Data
  - Amazon DynamoDB for Big Data
  - DynamoDB Streams
  - DynamoDB for Big Data Design Patterns
  - Design for Large Scale Applications
  - Deployment with Elastic Beanstalk
- **Lesson 3**
  - Build Resilient Architectures Part A
  - CloudFront Content Delivery and Automating WAF Rules
  - Encryption and Security of Data
  - KMS Envelope Encryption
  - Design for Performance

Intended Audience

This course is intended for individuals who are experienced with designing scalable and elastic applications on the AWS platform.

Prerequisites

We recommend that attendees of this course have the following prerequisites:

- Attended Architecting on AWS
- Achieved AWS Certified Solutions Architect – Associate

Follow-On Courses

- Advanced Developing on AWS
- Cloud Operations on AWS

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.