Architecting on AWS covers the fundamentals of building IT infrastructure on AWS.

The course is designed to teach solutions architects how to optimize the use of the AWS cloud by understanding AWS services and how these services fit into cloud-based solutions.

Because architectural solutions may differ depending on industry, type of applications, and size of business, this course emphasizes AWS cloud best practices and recommended design patterns to help students think through the process of architecting optimal IT solutions on AWS.

It also presents case studies throughout the course that showcase how some AWS customers have designed their infrastructures and the strategies and services they implemented. Opportunities to build a variety of infrastructures via a guided, hands-on approach are also provided.

### Course Objectives

*Note: course outline may vary slightly based on the regional location and/or language in which the class is delivered.*

This course is designed to teach you how to:

- Make architectural decisions based on the AWS-recommended architectural principles and best practices
- Leverage AWS services to make your infrastructure scalable, reliable, and highly available
- Leverage AWS managed services to enable greater flexibility and resiliency in an infrastructure
- Make an AWS-based infrastructure more efficient in order to increase performance and reduce costs
- Use the Well-Architected Framework to improve architectures with AWS solutions

### Prerequisites

We recommend that attendees of this course have:

- Attended AWS Technical Essentials or have equivalent experience
- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

### Intended Audience

This course is intended for:

- Solution Architects
- Solution Design Engineers

### Hands-On Activity

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises.

### Bring Your Own Device

Please note that this class requires you to bring your own device. Plan to come to class with the following:

- A notebook computer with Wi-Fi (labs cannot be completed on an iPad or tablet device)
- Administrator access to the computer, if Windows
- Chrome, Firefox, or Safari
- Smart device/tablet to access course literature (optional)

### Day 1

- Core AWS Knowledge
- Core AWS Services
- Designing your Environment
- Making Your Environment Highly Available

### Day 2

- Forklifting an Existing Application onto AWS
- Event-Driven Scaling
- Automating
- Designing
- Build a new Environment

### Day 3

- The Well-Architected Framework
- Troubleshooting Your Environment
- Large-Scale Design Patterns and Case Studies
## AWS Training & Certification Learning Path

### Associate Level

- **AWS Business Essentials**
  - Instructor-Led
  - 1x day

- **AWS Technical Essentials**
  - Instructor-Led
  - 1x day

### Professional Level

- **Architecting on AWS**
  - Instructor-Led
  - 3x days

- **Advanced Architecting on AWS**
  - Instructor-Led
  - 3x days

- **Security Fundamentals on AWS**
  - Free
  - 3x days

- **Security Engineering on AWS**
  - Instructor-Led
  - 3x days

- **Big Data Fundamentals on AWS**
  - Free
  - 3x days

- **Big Data on AWS**
  - Instructor-Led
  - 3x days

- **Developing on AWS**
  - Instructor-Led
  - 3x days

- **AWS Certified Solutions Architect**
  - Instructor-Led

- **AWS Certified System Operator Administrator**
  - Instructor-Led

- **AWS Certified Developer**
  - Instructor-Led

- **DevOps Engineering on AWS**
  - Instructor-Led
  - 3x days

- **Data Warehousing on AWS**
  - Instructor-Led
  - 3x days

### Speciality Courses

- **Security**
  - **Security Fundamentals on AWS**
    - Online
    - Free

- **Big Data**
  - **Big Data Fundamentals on AWS**
    - Online
    - Free

- **Migration**
  - **Migrating to AWS**
    - Online
    - 2x days

### Bootcamps

- **Container Enabled Microservices**
  - Instructor-Led
  - 1x day

- **Taking Ops to the Next Level**
  - Instructor-Led
  - 1x day

- **Next-Gen Apps**
  - Instructor-Led
  - 1x day

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