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COURSE OVERVIEW

AWS Solutions Architect

AWS Technical Essentials introduces you to AWS products, services, and common solutions.

It provides IT technical end users with basic fundamentals to become more proficient in identifying AWS services so that you can make informed decisions about IT solutions based on your business requirements and get started on AWS.

Course Objectives

This course is designed to teach you how to:

- Understand basic data centre design concepts
- Recognise terminology and concepts as they relate to the AWS platform and navigate the AWS Management Console
- Understand the foundational infrastructure services, including Amazon Virtual Private cloud (VPC), Amazon Elastic Compute Cloud (EC2), Amazon Elastic Block Store (EBS), Amazon Simple Storage Service (S3), Auto Scaling, and Elastic Load Balancing (ELB)
- Understand the security measures AWS provides and key concepts of AWS Identity and Access Management (IAM)
- Understand AWS database services, including Amazon DynamoDB and Amazon Relational Database Service (RDS).
- Understand AWS management tools, including Amazon CloudWatch and AWS Trusted Advisor

Prerequisites

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

- Working knowledge of IT infrastructure concepts
- Familiarity with basic finance concepts
- Familiarity with basic IT security concepts

Intended Audience

This course is intended for:

- Individuals responsible for articulating the technical benefits of AWS services to customers
- Individuals interested in learning how to get started with using AWS
- SysOps Administrators, Solution Architects and Developers interested in using AWS services

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)

Course Outline

This course covers the following concepts:

- ✔ Introduction and History of AWS
- ✔ AWS Infrastructure: Compute, Storage, and Networking
- ✔ AWS Security, Identify, and Access Management
- ✔ AWS Database
- ✔ AWS Management Tools

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Architecting with AWS

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

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
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Day 1

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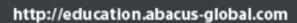- ✔ Making Your Environment Highly Available

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

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AWS Certification Exam Readiness Workshop – Solutions Architect - **Associate Level**

Duration: **1 Day**
Delivery Method: **AWS Instructor Led** | Day 5

Designed to complement Architecting on AWS, this half-day workshop is intended for individuals who are preparing for the AWS Certified Architecting Associate exam.

In this workshop, we review what to expect at the testing centre and while taking the exam. We walk you through how the exam is structured, including question formats, content domains, and the breakdown of questions across those domains. We also teach you how to interpret the concepts being tested by a question so that you can better eliminate incorrect responses. During the workshop, you will have the chance to apply knowledge and test concepts through a series of practice exam questions.

Course Objectives

This course is designed to teach you how to:

- Navigate the logistics of the examination process
- Understand the exam structure and question types
- Identify how questions are written to test AWS architectural concepts
- Interpret the concepts being tested by an exam question

Prerequisites

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

- Attended the Architecting on AWS course (or have equivalent knowledge)
- One or more years of hands-on experience designing and deploying scalable, highly available, and fault tolerant systems on AWS

Intended Audience

This course is intended for:

- Solution Architects or Solution Design Engineers who are preparing to take the AWS Certified Solutions Architect – Associate exam

Course Outline

✔ Testing Centre Information and Expectations

✔ Exam Overview and Structure

✔ Content Domains and Question Breakdown

✔ Topics and Concepts with Content Domains

✔ Question Structure and Interpretation Techniques

✔ Post class – Practice Exam Questions

✔ Complimentary final exam voucher

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