Building an AWS Multi-Tier Architecture by using step by step lab instructions

AWS Classroom Training

Course description

Architectural solutions differ depending on industry, types of applications, and business size. AWS offers a broad set of global cloud-based products, including compute, storage, database, analytics, networking, mobile, developer tools, management tools, Internet of Things (IoT), security, and enterprise applications. These services help organizations move faster, lower IT costs, and scale. As a Solutions Architect, you are often tasked with identifying services and features to build resilient, secure and highly available IT solutions on the AWS Cloud. In this course, you build a solution based on a scenario and then deploy a highly available architecture.

- Course level: Intermediate
- Duration: 4 hours

Activities

This course includes presentations, knowledge-checks, and a hands-on lab.

Course objectives

In this course, you will:

- Solve several architectural challenges within a specific business case
- Answer some general questions about the AWS services related to the design
- Perform a series of actions to design a highly available architecture and deploy and configure the services needed to meet the requirements

Intended audience

This course is intended for:

- Solution architects
- Solution-design engineers

Prerequisites

We recommend that attendees of this course have:

- Working knowledge of AWS cloud computing concepts
- Working knowledge of distributed systems
- Working knowledge of general networking concepts
- Working knowledge of multi-tier architectures

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Course outline

This course covers the following concepts:

Introduction

- Introduction to the course
- Access to resources (Hands-on lab interface, scenario requirements, hints)

Module 1: AWS Services overview

- AWS Services and Infrastructure
- AWS Networking and Security
- Amazon Elastic Cloud Compute (EC2)
- AWS Database Solutions

Hands on Lab: Build an AWS Multi-Tier Architecture

- Review and Run a Pre-Configured AWS CloudFormation Template
- Create an Amazon RDS Database
- Create an Amazon Elasticache for MemCached
- Create an Amazon Elastic File System (EFS)
- Create an Application Load Balancer (ALB)
- Create the Application Servers by Configuring an Auto Scaling Group and a Scaling Policy
- Build a complete solution based on the scenario

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