

# Architecting on AWS - Accelerator

## Course Benefits & Agenda



**Overview**

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**Course Benefits**

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**Agenda**

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## Overview

This course combines Architecting on AWS and Advanced Architecting on AWS to offer a comprehensive, immersive course in cloud architecture. It covers all aspects of how to architect for the cloud over 5 days. You will learn how to design cloud architectures, starting small and working to large-scale enterprise level designs—and everything in between. Starting with the Well Architected Framework, you will be immersed in AWS services like compute, storage, database, networking, security, monitoring, automation, optimization, benefits of de-coupling applications and serverless, building for resilience, and understanding costs. Using hands-on labs, you will apply knowledge from lectures to gain skills.

## Course Benefits

This course is designed to teach the student how to:

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

## Agenda

### Day 1

Module	Topic
Module 1	Introduction
Module 2	The Simplest Architectures
Lab 1	Hosting a Static Website
Module 3	Adding a Compute Layer
Module 4	Adding a Database Layer
Lab 2	Deploying a Web Application on AWS
Module 5	Networking in AWS – Part 1

### Day 2

Module	Topic
Module 6	Networking in AWS – Part 2
Lab 3	Creating a VPC
Module 7	AWS Identity and Access Management (IAM)
Module 8	Organizations
Module 9	Elasticity, High Availability, and Monitoring
Lab 4	Creating a highly available environment
Module 10	Automation

## Agenda

### Day 3

Module	Topic
Module 11	Deployment Methods
Lab 5	Automating infrastructure deployment
Module 12	Caching
Module 13	Security of Your Data
Module 14	Building Decoupled Architecture
Module 15	Optimizations and Review

### Day 4

Module	Topic
Module 16	Microservices
Module 17	Serverless
Module 18	Building for Resilience
Lab 6	Amazon CloudFront content delivery and automating WAF rules
Module 19	Networking in AWS Part 3
Module 20	Understanding Costs

## Agenda

### Day 5

Module	Topic
Module 21	Migration Strategies
Lab 7	Application deployment using AWS Fargate
Module 22	RTO/RPO and Backup Recovery Setup
Module 23	Final Review