AWS Training Course Content

AWS Technical Essentials

- Introduction and History of AWS
- AWS Foundational Services: EC2, VPC, S3, EBS
- AWS Security, Identity, and Access Management: IAM
- AWS Databases: RDS, DynamoDB
- AWS Management Tools: Auto Scaling, CloudWatch, Elastic Load Balancing, Trusted Advisor

Architecting on AWS

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
- Decoupling
- Build a new environment

Day 3
- The Well-Architected Framework
- Troubleshooting Your Environment
- Large-Scale Design Patterns and Case Studies

Developing on AWS

Day 1: Building the Foundation
- Introduction to Developing on AWS
- Choosing a Data Store
- Developing Storage Solutions with Amazon S3
- Developing Flexible NoSQL Solutions with Amazon DynamoDB

Day 2: Connecting Applications and Data with Event-Driven Processing
- Working with Events
- Developing Event-Driven Solutions with Amazon Kinesis Stream
- Developing Event-Driven Solutions with Amazon SWF, Amazon SQS, and Amazon SNS
- Developing Event-Driven Solutions with AWS Lambda

Day 3: Developing and Deploying Secure, Scalable Applications
- Developing Secure Applications
- Caching Information for Scalability
- Monitoring Your Application and AWS Resources with Amazon CloudWatch
- Deploying Applications with AWS Elastic Beanstalk and AWS CloudFormation

Systems Operations on AWS

Day 1
- Systems Operations on AWS Overview
- Networking in the Cloud
- Computing in the Cloud

Day 2
- Storage and Archiving in the Cloud
- Monitoring in the Cloud
- Managing Resource Consumption in the Cloud

Day 3

- Configuration Management in the Cloud
- Creating Scalable Deployments in the Cloud
- Creating Automated and Repeatable Deployments

Advanced Architecting on AWS

Day 1
- Review of Architecting for the Cloud Best Practices and the AWS Well-Architected Framework
- AWS Account Strategies
- Advanced Networking Architectures
- Deployment Management on AWS

Day 2
- Designing Large Datastores
- Moving Large Datastores into AWS
- Big Data Architectures
- Designing for Large Scale Applications

Day 3
- Building Resilience into Your Architecture
- Data Encryption and Key Management in AWS
- Securing Data on AWS
- Designing for Performance

DevOps Engineering on AWS

Day 1
- Introduction to DevOps
- AWS Command Line Interface
- Introduction to DevSecOps
- Deployment Strategies and Developer Tools

Day 2
- Infrastructure as Code

- Deep Dive into AWS Developer Tools
- Automated Testing on AWS

Day 3
- Configuration Management
- AMI Building and Amazon EC2 Systems Manager
- Containers: Docker and Amazon ECS
- DevOps Customer Case Studies
- Course Wrap-Up

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