



AWS Certified DevOps Engineer Training



AWS Certified DevOps Engineer Training Syllabus

CHAPTER 1: INTRODUCTION TO CLOUD AND AWS

TOPIC 1: CHAPTER & CLOUD OVERVIEW

TOPIC 2 - CLOUD SERVICE MODEL IAAS, PAAS, SAAS & DEPLOYMENT MODEL PUBLIC, PRIVATE, HYBRID

TOPIC 3 - AWS OVERVIEW COMPARISON

TOPIC 4 - AWS GLOBAL INFRASTRUCTURE REGION AZ

TOPIC 5 - AWS SERVICES

TOPIC 6 - IAM USERS, GROUPS, POLICY, & ROLES

TOPIC 7 - COMPUTE EC2, LAMBDA, ECS, EKS, & FARGATE

TOPIC 8 - STORAGE SERVICE BLOCK OBJECT FILE S3, EBS, & EFS

TOPIC 9 - NETWORK SERVICE VPC SUBNET GATEWAY, LB, ROUTE 53 & CDN

TOPIC 10 - DATABASE SERVICE RDS, DYNAMODB, ELASTICACHE, REDSHIFT, & AURORA

TOPIC 11 - AUTOMATION CONFIGURATION, CLOUDFORMATION, & OPSWORKS

TOPIC 12 - AUDIT AND MONITORING CLOUDWATCH, & CLOUDTRAIL

TOPIC 13 - APPLICATION SERVICES SNS, SES, SQS, & SWF

TOPIC 14 - DEVOPS TOOLS, CODECOMMIT, CODEBUILD, CODEDEPLOY, & CODEPIPELINE

TOPIC 15 - AWS ARCHITECTURE OVERVIEW

CHAPTER 2 - CREATE CLOUD ACCOUNT, MACHINE, AND INSTALL CLI

TOPIC 1 - CREATE AWS FREE TRIAL ACCOUNT

TOPIC 2 - CLOUDWATCH - CREATE BILLINGS ALARM & SERVICE LIMITS

TOPIC 3 - CREATING WINDOWS MACHINE ON AWS

TOPIC 4 - CREATING LINUX MACHINE ON AWS

TOPIC 5 - INSTALL & CONFIGURE AWS CLI

TOPIC 6 - USE AWS CLI TO CREATE S3 BUCKET

TOPIC 7 - SETUP GIT, NODE JS & SDK

TOPIC 8 - CHAPTER WRAP-UP

CHAPTER 3: SDLC AUTOMATION

TOPIC 1 - WORKING WITH AWS CODECOMMIT

TOPIC 2 - GETTING STARTED WITH AWS CODEBUILD USING THE CONSOLE

TOPIC 3 - PART 1 - CREATE A SIMPLE PIPELINE (CODEPIPELINE)

TOPIC 4 - PART 2 - CREATE A SIMPLE PIPELINE (CODEPIPELINE)

TOPIC 5 - PART 3 - CREATE A SIMPLE PIPELINE (CODEPIPELINE)

CHAPTER 4 - CONFIGURATION MANAGEMENT AND INFRASTRUCTURE AS CODE

TOPIC 1 - YAML BASICS FOR DOCKER

TOPIC 2 - YAML BASICS FOR KUBERNETES

TOPIC 3 - CREATE AND UPDATE STACKS USING CLOUDFORMATION (PART - 1)

TOPIC 4 - CREATE AND UPDATE STACKS USING CLOUDFORMATION (PART - 2)

TOPIC 5 - DEPLOY PHP APP USING AWS OPSWORKS STACKS

TOPIC 6 - BLUE-GREEN DEPLOYMENTS USING ELASTIC BEANSTALK

TOPIC 7 - SETTING UP AWS CONFIG TO ASSESS AUDIT & EVALUATE AWS RESOURCES

CHAPTER 5: MONITORING AND LOGGING IN AWS

TOPIC 1 - BUILD API GATEWAY WITH LAMBDA INTEGRATION

TOPIC 2 - EVENT-DRIVEN ARCHITECTURES USING AWS LAMBDA, SES, SNS AND SQS (PART - 1)

TOPIC 3 - EVENT-DRIVEN ARCHITECTURES USING AWS LAMBDA, SES, SNS AND SQS (PART - 2)

TOPIC 4 - ENABLE CLOUDTRAIL AND STORE LOGS IN S3

TOPIC 5 - CONFIGURE AMAZON CLOUDWATCH TO NOTIFY CHANGE IN EC2 CPU UTILIZATION

TOPIC 6 - INSTALL CLOUDWATCH AGENT ON EC2 INSTANCE & VIEW CLOUDWATCH METRICS

TOPIC 7: AMAZON ATHENA

CHAPTER 6: POLICY AND AUTOMATION IN AWS

TOPIC 1 - USING AWS SYSTEMS MANAGER FOR PATCH MANAGEMENT

TOPIC 2 - WORKING AWS ORGANIZATIONS AND SERVICE CONTROL POLICIES

TOPIC 3 - CLASSIFY SENSITIVE DATA IN YOUR ENVIRONMENT USING AMAZON MACIE

CHAPTER 7: INCIDENT AND EVENT RESPONSE

TOPIC 1 - AMAZON INSPECTOR

TOPIC 2: VISUALIZE WEB TRAFFIC USING KINESIS DATA STREAMS

CHAPTER 8: HIGH AVAILABILITY, FAULT TOLERANCE AND DISASTER RECOVERY

TOPIC 1 - CONFIGURING LOAD BALANCER AND AUTOSCALING ON EC2 INSTANCES (PART - 1)

TOPIC 2 - CONFIGURING LOAD BALANCER AND AUTOSCALING ON EC2 INSTANCES (PART - 2)

TOPIC 3 - REGISTERING A DOMAIN NAME FOR FREE

TOPIC 4 - WORKING WITH ROUTE53 FOR DISASTER RECOVERY

TOPIC 5 - CONFIGURING A MYSQL DB INSTANCE VIA RDS

TOPIC 6 - GETTING STARTED WITH AMAZON AURORA GLOBAL DATABASES (PART - 1)

TOPIC 7 - GETTING STARTED WITH AMAZON AURORA GLOBAL DATABASES (PART - 2)

TOPIC 8 - CREATE & QUERY WITH AMAZON DYNAMODB

TOPIC 9 - PROCESS NEW ITEMS WITH DYNAMODB STREAMS AND LAMBDA

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