



TWINTTECH

SOLUTIONS

We offer AWS DevOps course which will help the candidate's technical expertise in provisioning, operating, and managing distributed application systems on the AWS platform.

We will help you in understanding how to:

Implement and manage continuous delivery systems and methodologies on AWS understand, implement, and automate security controls, governance processes, and compliance validation
Define and deploy monitoring, metrics, and logging systems on AWS Implement systems that are highly available, scalable, and self-healing on the AWS platform Design, manage, and maintain tools to automate operational processes

This course is designed to provide you with the knowledge and skills required to pass the AWS Certified DevOps Engineer - Professional exam and to successfully apply these skills in the workplace.

NOTE: AWS transitioned to a new exam in February 2019, and we've updated our course syllabus to reflect the changes.

Syllabus

SDLC Automation (Domain 1)

- CICD Overview
- CodeCommit - Overview
- CodeCommit - First Repo & HTTPS config
- CodeCommit - clone, add, commit, push
- CodeCommit - Branches and Pull Requests
- CodeCommit - Securing the Repository and Branches
- CodeCommit - Triggers & Notifications
- CodeCommit - & AWS Lambda
- CodeBuild - Overview
- CodeBuild - First Build
- CodeBuild - Docker, ECR & buildspec.yml
- CodeBuild - Environment Variables & Parameter Store
- CodeBuild - Artifacts and S3
- CodeBuild - CloudWatch Events, CloudWatch Logs, CloudWatch Metrics & Triggers
- CodeBuild - Validating CodeCommit Pull Requests

- CodeDeploy - Introduction & Overview
- CodeDeploy - Deployment Groups
- CodeDeploy - Deployment Configurations
- CodeDeploy - Hooks & Environment Variables
- CodeDeploy - CloudWatch Events, CloudWatch Logs, CloudWatch Alarms, Triggers
- CodeDeploy - Deploy to AWS Lambda
- CodePipeline - Overview
- CodePipeline - CodeCommit & CodeDeploy
- CodePipeline - Adding CodeBuild
- CodePipeline - Artifacts, Encryption and S3
- CodePipeline - Manual Approval Steps
- CodePipeline - CloudWatch Events Integration
- CodePipeline - Stage Actions, Sequential & Parallel
- CodePipeline - CloudFormation

Configuration Management and Infrastructure as Code (Domain 2)

- CloudFormation Overview
- CloudFormation Parameters
- CloudFormation Resources
- CloudFormation Mappings
- CloudFormation Outputs
- CloudFormation Conditions
- CloudFormation Intrinsic Functions
- CloudFormation User Data
- CloudFormation cfn-init
- CloudFormation cfn-signal and wait conditions
- CloudFormation cfn-signal failures troubleshooting
- CloudFormation Rollbacks
- CloudFormation Nested Stacks
- CloudFormation ChangeSets
- CloudFormation DeletionPolicy
- CloudFormation TerminationProtection
- CloudFormation - Stack Policies
- Elastic Beanstalk - EB CLI
- Elastic Beanstalk - Saved Configurations
- Elastic Beanstalk - .ebextensions for configs
- Elastic Beanstalk - .ebextensions for resources
- Elastic Beanstalk - .ebextensions for commands & container commands
- Elastic Beanstalk - Good Features to Know
- Elastic Beanstalk - Rolling Updates Strategies

- Elastic Beanstalk - Rolling Updates Hands On
- Elastic Beanstalk - Swap URL (Blue / Green)
- Elastic Beanstalk - Worker Environments
- Elastic Beanstalk - Multi Docker Integration
- Lambda - Overview
- Lambda - Sources and Use Cases
- Lambda - Security, Environment Variables, KMS and SSM
- Lambda - Versions, Aliases and Canary Routing
- Lambda - SAM Framework
- Lambda - SAM and CodeDeploy

Monitoring and Logging (Domain 3)

- CloudTrail - Overview
- CloudTrail - Log Integrity
- CloudTrail - Cross Account Logging
- Kinesis - Data Streams Overview
- Kinesis - Data Firehose & Analytics Overview
- Kinesis - Data Firehose Hands On
- CloudWatch Metrics - Overview
- CloudWatch Metrics - Metrics to Know
- CloudWatch Metrics - Custom Metrics
- CloudWatch Metrics - Exports
- CloudWatch Alarms - Overview
- CloudWatch Alarms - Billing Alarms
- CloudWatch Logs - Console Overview
- CloudWatch - Unified CloudWatch Agent Part I
- CloudWatch - Unified CloudWatch Agent Part II
- CloudWatch Logs - Metric Filters & Alarms
- CloudWatch Logs - Export to S3
- CloudWatch Events - Overview
- CloudWatch Events - Integration with CloudTrail API
- CloudWatch Events - vs S3 Events
- CloudWatch Dashboards - Overview
- X-Ray - Overview
- X-Ray - DevOps automation
- Amazon ES - Elasticsearch + Logstash + Kibana

Policies and Standards Automation (Domain 4)

- SSM - Overview & Quick Setup
- SSM - EC2 Setup
- SSM - On-Premise Setup

- SSM - Automations
- SSM - Session Manager & Cleanup
- Config - Overview
- Config - Rules
- Config - Automations
- Config - Multi Account
- Service Catalog - Overview
- Service Catalog - Hands On
- Inspector - Setup & Run
- Inspector - Automations
- EC2 Instance Compliance
- Health - Service Health Dashboard & Personal Health Dashboard
- Trusted Advisor - Overview
- Trusted Advisor - Automations
- Trusted Advisor - Automating Refreshes
- GuardDuty - Overview
- GuardDuty - Automations
- Macie - Hands On
- Secrets Manager - Hands On
- License Manager - Hands On
- Cost Allocation Tags
- Data Protection & Network Protection in AWS

Incident and Event Response (Domain 5) & HA, Fault Tolerance, and DR (Domain 6)

- ASG - From Launch Configuration
- ASG - From Launch Templates
- ASG - Scheduled Actions
- ASG - Scaling Policies
- ASG - ALB Integration
- ASG - HTTPS on ALB
- ASG - Suspending Processes & Troubleshooting
- ASG - Lifecycle Hooks
- ASG - Termination Policies
- ASG - Integration with SQS
- ASG - Monitoring
- ASG - CloudFormation CreationPolicy
- ASG - CloudFormation UpdatePolicy
- ASG - CodeDeploy Integration
- ASG - CodeDeploy Integration Troubleshooting
- ASG - Cleanup
- ASG - Deployment Strategies

- DynamoDB - Review Part I
- DynamoDB - Review Part II
- DynamoDB - Patterns
- S3 - Review
- Multi AZ - Overview
- Multi Region - Overview
- StackSets - Warning
- Multi Region - CloudFormation StackSets
- Multi Region - CodePipeline
- Disaster Recovery - Overview
- Disaster Recovery - DevOps Checklist
- On-Premise Strategies with AWS
- Multi Account - AWS Organization Overview
- Multi Account - AWS Organization Hands On
- Multi Account - Services Integration

