

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AWS Developer

Introduction to AWS Developer Tools and Services

- Overview of AWS: Cloud computing fundamentals, benefits, and services overview
- AWS Global Infrastructure: Regions, Availability Zones, Edge Locations
- AWS Free Tier: Signing up for AWS, account management, and billing basics

AWS Identity and Access Management (IAM) for Developers

- IAM Basics: Users, Groups, Roles, and Policies
- IAM Best Practices: Security principles, least privilege access, and IAM policy management
- Hands-on Lab: Setting up IAM roles and policies for a sample application

AWS Compute Services for Developers

- Amazon EC2 (Elastic Compute Cloud): Instance types, AMIs, and launching instances
- AWS Lambda: Serverless computing, event-driven architecture, and using Lambda functions
- Auto Scaling: Scaling applications automatically based on demand

AWS Storage Solutions for Developers

- Amazon S3 (Simple Storage Service): Object storage basics, buckets, and permissions
- Amazon EBS (Elastic Block Store): Volume types, snapshots, and attaching volumes to instances
- Hands-on Lab: Storing and retrieving data using S3 and EBS

AWS Database Services for Developers

- Amazon RDS (Relational Database Service): Managed database solutions, database engines, and multi-AZ deployments
- Amazon DynamoDB: NoSQL database service, partition keys, and querying
- Hands-on Lab: Setting up and interacting with RDS and DynamoDB

AWS Networking and Content Delivery for Developers

- Amazon VPC (Virtual Private Cloud): Subnets, route tables, and internet gateways
- AWS Direct Connect: Dedicated network connection to AWS
- Amazon CloudFront: Content Delivery Network (CDN) basics and caching strategies

AWS Developer Tools

- AWS CodeCommit: Git-based source control service
- AWS CodeBuild: Building and testing code
- AWS CodeDeploy: Automating code deployments to EC2 instances

Serverless Application Development

- AWS Serverless Application Model (SAM): Defining serverless applications using YAML
- Integrating AWS Lambda with API Gateway: Building RESTful APIs
- Hands-on Lab: Developing and deploying a serverless application

Messaging and Integration Services

- Amazon SQS (Simple Queue Service): Messaging and queuing service
- Amazon SNS (Simple Notification Service): Pub/sub messaging and mobile notifications
- Hands-on Lab: Using SQS and SNS to build event-driven architectures

Security Best Practices for AWS Developers

- Securing AWS Resources: Encryption, key management, and network security
- AWS Web Application Firewall (WAF) and AWS Shield: Protecting applications against common threats
- Hands-on Lab: Implementing security best practices in a sample application

Monitoring, Logging, and Troubleshooting

- AWS CloudWatch: Monitoring metrics, logs, and setting alarms
- AWS X-Ray: Analyzing and debugging distributed applications
- Hands-on Lab: Monitoring and troubleshooting an application using CloudWatch and X-Ray

Continuous Integration and Deployment (CI/CD) on AWS

- AWS CodePipeline: Continuous Integration and Continuous Deployment (CI/CD)
- AWS CodeDeploy and AWS CodeBuild: Automating builds and deployments
- Hands-on Lab: Setting up a CI/CD pipeline for a sample application

AWS Application Development Best Practices

- Designing for High Availability and Scalability: Load balancing, fault tolerance, and auto scaling
- Application Performance Optimization: Caching strategies, database optimization, and latency reduction

- Hands-on Lab: Optimizing application performance and scalability

Real-world Projects and Case Studies

- Implementing AWS Solutions: Industry-specific case studies and success stories
- Best Practices and Lessons Learned from Real-world Implementations

Career Development and AWS Certifications

- AWS Certifications Overview: Paths and preparation tips
- Building a Career as an AWS Developer: Skills development and career opportunities
- Interview Preparation: Common AWS-related interview questions and scenarios