



Cloud Development using Amazon Web Services

Training Name	Cloud development using Amazon Web Services
Product Code	CC-Amazon-01
Duration	Three days
Who will benefit from this training?	Developers and solution architects with an interest in developing solutions using emerging technologies of Cloud computing and Amazon Web Services
Prerequisites and background	Basic knowledge of application development using any AWS compatible language like .NET(C#), Ruby, Python, PHP etc.
Overview	Upon course completion, you will : <ul style="list-style-type: none">• Understand AWS components and services• Create and manage EC2 instances and AMIs• Understand different data storage technologies and use the proper variant for your application.• Be familiar with the different AWS application services and their use within your application.• Manage your application lifecycle on AWS
Training Content	Module 1: AWS Components & Services <ul style="list-style-type: none">- Understanding Amazon compute- Using the Management console- Understanding Amazon database and storage- Getting familiar with Amazon application services



Module 2: AWS Compute Services Programming

- Provisioning EC2 instances
- Publishing your application to EC2
- Managing EC2 instances lifecycle
- Configuring EC2 instances
- Managing Amazon Machine Images (AMIs)

Module 3: AWS Storage Services Programming

- Using Elastic Block Storage (EBS) to provide storage to your instances.
- Storing data in a scalable and durable way in the cloud using the Simple Storage Service (S3)

Module 4: AWS Database Services Programming

- Storing and querying structured data using SimpleDB
- Offering traditional relational database capabilities to your application using RDS.
- Storing data for any workload using DynamoDB
- Choosing the right storage/database solution

Module 5: AWS Application Services Programming

- Messaging between applications using Simple Queue Service (SQS)
- Securing resources using the Identity & Access Management (IAM)
- Sending notifications from the cloud using Simple Notification Services (SNS)
- Caching data using ElastiCache
- Making use of CloudFront to speed up data access
- Complex data processing with Data Pipeline

Module 6: Application Lifecycle Management for Cloud Applications

- Understanding ALM for your AWS application
- Managing AWS applications using Elastic Beanstalk
- Monitoring EC2 instances using CloudWatch
Auto-scaling EC2 capacity

Number of attendees

10 participants

