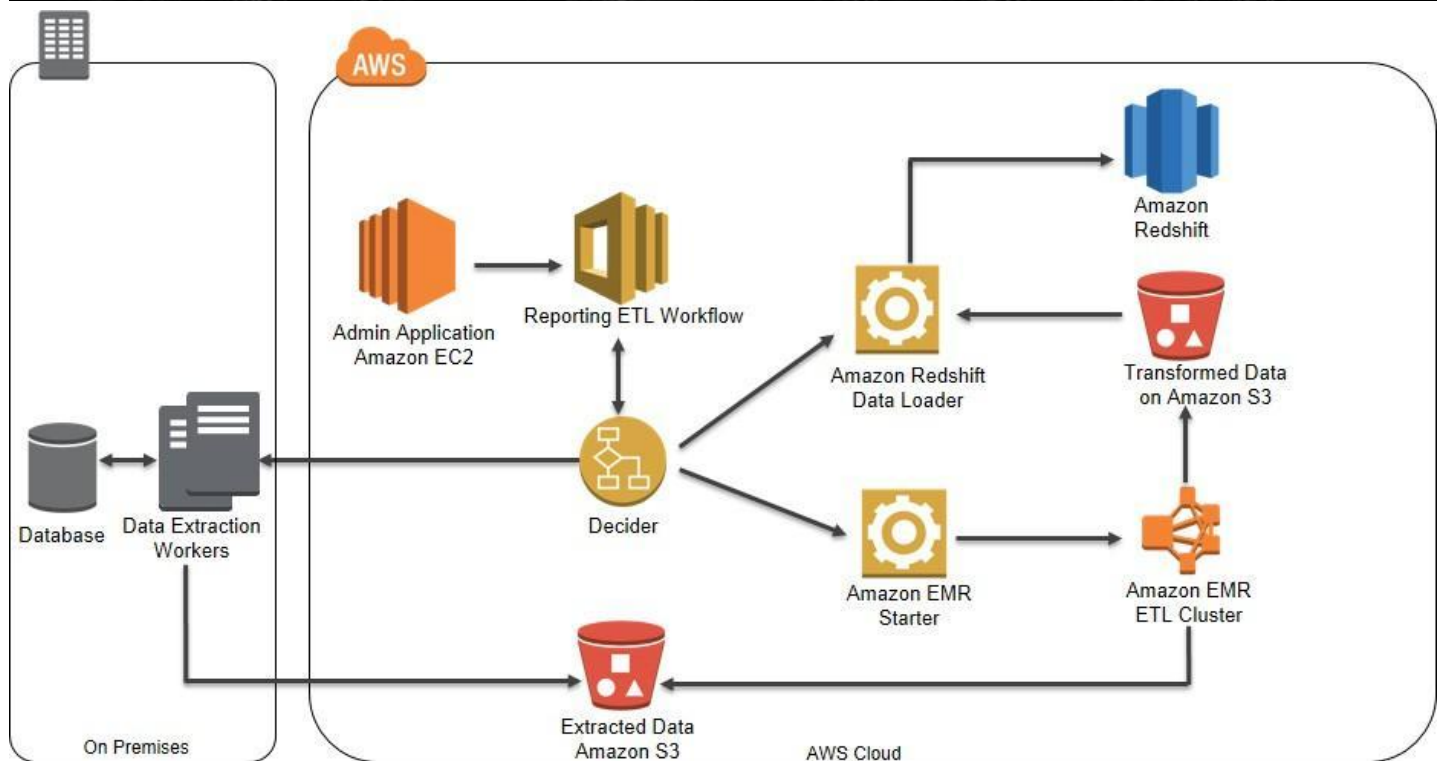*LEARN, THINK, INNOVATE*

# Overview

Let eMexo Technologies Best **AWS Training in Electronic City Bangalore** take you from the fundamentals of AWS to Advance AWS and make you an expert in developing real-time AWS integrated applications. Here are the major topics we cover under this AWS course Syllabus: **Cloud Basics, Introduction to AWS, Virtual Private Cloud, EC2, Storage, Load balancing and Autoscaling, Route 53, Cloud Front, IAM, Relational Database Service, DynamoDB, Monitoring (Cloud Trail & Cloud Watch), Cloud Watch, Application Services, and Design and Architecture.** Each topic will be covered in a practical way with examples for our AWS Course in Electronic City Bangalore.

All the topics will be covered with Practical and hands-on training. Our trainers have industry experience with live project experience in cutting-edge technologies they teach. We hire only the Best AWS industry specialists as trainers for our **Amazon Web Services Certification Training in Electronic City Bangalore**.

If you are looking for an AWS Certification Course in Electronic City Bangalore, eMexo Technologies is the Best **AWS Training Institute in Electronic City Bangalore**. Come over to our training institute for a free demo class. Let our trainer give you a demo on AWS and only then do you take the decision to enroll in the training program.

# Training Features

## Real-life Case Studies

Do a real-life case study to understand the usage in real-world scenarios.

## Assignments

Each class will be followed by a practical assignment switch that can be completed before the next class.

## Preparation for interview

Our trainers are professionals working in multinational corporations. They are experts in their field and know exactly what the interviewer will look for in the candidate. Experienced trainers not only share interview questions but also conduct mock interviews to help prepare for the actual interview.

## Key Features

eMexo Technologies offers the **Best AWS Training Course in Electronic City Bangalore** with the TOP industry expert trainers.
Here are the key features.

★ Free Demo Class Available
★ Practical Approach

★ Expert & Certified Trainers

★ 100% Job Oriented Training

★ Real World use cases and Scenarios

★ Completed 500+ Batches

★ Certification Guidance

## Unit 1: Cloud Basics

This session deals with the basics of cloud computing. Significant features of the cloud when compared with on-premises. You will get a good understanding of the difference between public, private, and hybrid cloud environments. Discuss various cloud services like

➢ IAAS(Infrastructure As A Service)
➢ PAAS(Platform As A Service)
➢ SAAS(Software As A Service)

## Unit 2: Introduction to AWS

Amazon web service is one of the leading cloud providers available in the market. AWS provides a variety of services for your business and helps you get through digital transformation for the future. You will be learning the AWS global infrastructure like Regions, Availability Zones, and Edge Locations. Overview of services provided by AWS such as

➢ Compute
➢ Storage
➢ Database
➢ Networking
➢ Security
➢ Applications

End of this session you will be having a good understanding of cloud concepts and its services and the Impact of AWS in a cloud environment.

**Hands-on:**

➢ Open AWS free tier account
➢ Set up payment methods and billing preferences
➢ Set alarm for free tier usage

## Unit 3: Virtual Private Cloud

Logically isolated network devices (instances) from other AWS resources called VPC. You can provide your own private IPs for your instances. Your instances inside VPC will be interconnected together through VPC. The basic components of VPC to create a basic infrastructure are as follows

➢ VPC
➢ Subnets
➢ Route Tables
➢ Internet gateway

End of this session you will have clarity of AWS regions, Availability Zones, and Edge locations. Also, you will learn CIDR concepts to get a better understanding of IP ranges.

**Hands-on:**

➢ Create and configure VPC, Subnets, Internet gateway, and Route Tables
➢ Create NAT Gateway, NAT instances, VPC Peering, and Endpoints
➢ Differences between NACL and Security groups

## Unit 4: EC2

Learning Objective: EC2 provides a scalable computing capacity for your business. AWS has a wide range of instance family (type) including Memory-optimized, CPU-optimized, Networking, etc. You can create instances using Amazon Machine Images, which is preconfigured by Amazon. AWS lets you create your own AMI and you can choose from any AMI available in Amazon Marketplace as well. Instances are available in many options,

➢ On-demand
➢ Reserved
➢ Spot Instance
➢ Scheduled instance

As a Solution Architect, you will be able to give a solution for your client to choose the perfect computing service for their business needs.

**Hands-on:**

➢ Create and launch different types of operating systems like Linux, Windows and connect them
➢ Create AMIs and Snapshots and launch instances using them
➢ Create an additional Volume and attach it to your instance

## Unit 5: Storage

There are many storage options available in AWS as per your needs from short term to long term. In Amazon S3 you can store an unlimited amount of data. S3, EBS, EFS, FSx, Glacier, and DeepGlacier are some major storage options available in AWS. In this session, you will be learning about storage classes available in S3 and its features, cost, etc. You will get a brief knowledge of storage classes so that you can suggest your client more cost-effective. Storage classes are,

➢ Standard
➢ Standard Infrequent Access
➢ Standard Intelligent Tier
➢ S3 Glacier
➢ S3 Glacier Deep

**Hands-on:**

> ➢ Create and attach EFS with instances
> ➢ Create S3 and apply lifecycle policy and replicate the bucket into another bucket
> ➢ Create static Webhosting

## Unit 6: Load balancing and Autoscaling

Load balancing and Autoscaling are the significant features available in a cloud environment. A load balancer is to split the traffic between servers and triggers the auto-scaling when needed.  The load balancer keeps checking the server's health in a proper time interval and takes action according to it. There are three types of load balancers available,

> ➢ Classic Load balancer
> ➢ Application Load balancer
> ➢ Network Load balancer

End of this session you will understand the load balancer concept. You will have an idea to use a suited load balancer for your application.

**Hands-on:**

> ➢ Create a Load balancer and attach targeted instances to it
> ➢ Create an auto-scaling group and increase the instances when CPU utilization is high, and decrease the instances when CPU utilization is low

## Unit 7: Route 53

Route 53 is a DNS service available in AWS. You can register your domain here. Create a record set to host your website or application. Understand the routing policies available in AWS and apply which is suitable for your environment. Routing policies are

> ➢ Simple
> ➢ Weighted
> ➢ Geological
> ➢ Latency
> ➢ Failover

**Hands-on:**

> ➢ Register your Domain name
> ➢ Create recordset and apply a routing policy
> ➢ Configure Health check for your Load balancer or instance

## Unit 8: Cloud Front

Cloud Front is also called Content Delivery Network. Cloud front creates a distribution (cache) for your website or Application at your nearest edge location. So the latency would be less for the next time user. You can block a

particular country's people to view your website. Analyze your website views from which OS, Browser, and users. In this session, you will be engaged in the following topics,

- ➢ Origins and Origin groups
- ➢ Behaviors
- ➢ Restrictions
- ➢ Invalidations

**Hands-on:**

- ➢ Create distribution for your website
- ➢ Block a few country users viewing your website
- ➢ Invalidate the previous cache and create a new one

## Unit 9: IAM

IAM is to control your AWS resources most securely by limiting AWS users and other Services. You will be learning policies and their role and their major impact on the resources. Configure password policies and activate MFA. In this session, you will have knowledge of,

- ➢ Users
- ➢ Groups
- ➢ Roles
- ➢ Polices

**Hands-on:**

- ➢ Create users and add a user to the group
- ➢ Attach the customized policy to that group
- ➢ Perform cross-account access using STS

## Unit 10: Relational Database Service

RDS is a SQL-based fully managed Database service. Users don't need to worry about storage scaling, patching, backups, and maintenance. Replication costs you less and implementation is simple. RDS supports the following database engine,

- ➢ Aurora
- ➢ MySQL
- ➢ MsSQL
- ➢ MariaDB
- ➢ PostgreSQL
- ➢ Oracle

**Hands-on:**

- ➢ Create a database with replication on another Availability zone
- ➢ Configure auto-scaling, daily backup, and auto-upgrade

➢ Connect your database through the database client and insert tables and contents into it
➢ Apply some queries to retrieve data

## Unit 11: DynamoDB

DynamoDB is a NoSQL database service available in AWS. It is a replacement for MongoDB. It can handle 20 million requests per second and also can handle over 10 trillion requests per day. In-memory caching, Backup, and restore are the significant features of DynamoDB. They are mainly used for gaming applications and IoT Applications. You will be learning the following topics,

➢ Scaling through performance
➢ Serverless environment
➢ Microservices

**Hands-on:**

➢ Create and insert contents into the DynamoDB table
➢ Configure and manage multi-region replication

## Unit 12: Monitoring (Cloud Trail & Cloud Watch)

Cloud trail keeps the logs for every activity happening into your AWS account. It does have the last 90 days of activity by default. In this session, you will be learning the different types of events available in the cloud trail and its example.

➢ Management event
➢ Data event
➢ Insight event

## Unit 13: Cloud Watch

Cloud Watch is monitoring to fetch the logs and perform some action accordingly. There are two types of monitoring options available. Basic and detailed monitoring. You will learn to create logs and metrics and events. It triggers some action when an event occurs. Topics involved in Cloud watch are,

➢ Events
➢ Logs
➢ Metrics
➢ Alarms

**Hands-on:**

➢ Create a cloud watch event to start a new instance when CPU utilization is high.
➢ Set alarm for the events and send notification

## Unit 14: Application Services

There are many application services available in AWS. SNS is the most commonly used application service. Simple Notification Services is to generate email notification and send it to subscribers. Another application service we use is SQS. It is a replacement for the Microsoft queuing service. Application services covered in this session are as follows,

- ➢ Simple E-mail Service
- ➢ Simple Queue Services
- ➢ Simple Notification Service

**Hands-on:**
- ➢ Create and send notifications to the users
- ➢ Create and send messages using standard and FIFO messaging queue

## Unit 15: Design and Architecture

As a Solution Architect, you will be able to give a solution for your client to create, implement and improve your cloud infrastructure by using the five pillars of well-architect tools.

- ➢ Operational excellence
- ➢ Reliability
- ➢ Security
- ➢ Cost optimization
- ➢ Performance efficiency

## FAQs

**1. How is the training organized? How much percentage is theoretical and how much is practical hands-on?**

We at eMexo believe nothing beats hands-on practice when it comes to learning a concept. Our teaching methodology is 100% practical and hands-on oriented. You learn a concept, you practice it then and there with the trainers. We also give you assignments for each topic which you can practice at home and any doubts regarding the topic can be cleared with the trainer the next day.

**2. What is the course duration? How and when do you plan to complete the course?**

We generally cover our courses in 60 hours, however, we know that we can't put a hard- stop to learning with a number. Our trainer will make sure that you have learned everything that is part of the curriculum. This could mean 48 hours or 60 hours, doesn't matter.

**3. What is the material provided in the training?**

We have industry standard course material which is used by our trainers to train you. At the end of the training, apart from the notes which you have taken during the course, we will also provide you with the training

material which was used. This training material includes the training content, interview questions, etc.

**4. Do you help in preparing for the interview?**

Our trainers are working professionals who work in MNCs. They are the experts in their domain and they know exactly what an interviewer looks into a candidate. Our expert trainers apart from sharing the interview questions will also conduct mock interviews to help you prepare for the real interview.

**5. Who are your trainers?**

Our trainers are industry experts who work in their respective technologies day in and day out. They work in MNCs and are technology experts within their organizations.

**6. What is the total batch size per course?**

We maintain a strict batch size of a maximum of 5 students. We also provide exclusive one-to-one training as well. Talk to our training partner to get more details.

**7. Do you provide certification for the course?**

Yes, at the end of the training, we provide a certification of completion.

**8. Will I be joining a new batch or being merged with another batch?**

You will be added to a new batch.

**9. Is fast-track training available?**

Yes, we also provide fast-track training for those who want to complete the course faster. The curriculum and the total hours required to complete the course will remain the same. However, the trainer will be spending more hours with you to complete the course.

**10. Do you assist in job placement?**

Our trainers are expert professionals in their organizations and they often act as the interviewer to hire new candidates. Our trainers will help you prepare your resume with industry standards. After all, they know exactly what to look for in a resume.

**11. Timings for training - Regular training/weekend training?**

We provide both regular and weekend training. Talk to our training partner to learn more about the timings.

**12. Will you be working on a live project during training?**

Yes, apart from doing the hands-on practice our trainer will also be taking a real-world project and working with you on the implementation.

**13. What happens if I miss a class?**

If you miss a class the content of that class will be taught to you again. With us, you might miss a class but not the content.

**14. Can I attend a demo before the actual class?**

Yes, absolutely! Talk to our training counselor on the phone at **+91-9513216462** or email us at **info@emexotechnologies.com** to arrange a free demo. You can also fill in the contact us form below and we will call you to discuss your training requirements.