



ITEM #1: WHAT IS CLOUD?

Cloud is a Virtual Environment used to host any Data Or Apps [Software]. Easy, Secured and Faster access using Web URLs and Tools (EX: SSMS TOOL).

ITEM #2: WHAT IS AWS?

AWS is a Cloud Platform used to Host, Secure, Manage and Access Data.

Advantages of AWS Cloud:

- ✓ Highly Secured
- ✓ Easy Integration with other Data Platforms
- ✓ Suites Open Source Platforms

Master **AWS** Data Engineering Today

Applicable Job Roles

- AWS Data Engineer
- Cloud Data Engineer
- AWS ETL Developer
- Big Data Engineer



DATA WAREHOUSE



ETL



SQL



S3



Redshift

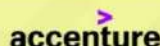


Athena



7 Wk; INR 25K










ITEM #3: WHAT ARE THE JOB ROLES FOR DATA ENGINEER (Useful for your resume)?

1. Involve in Data Extraction (E)
2. Involve in Data Transformations (T)
3. Perform Data Loads (L)
4. Manage Big Data Loads
5. Involve Data Warehouse Design (DWH)
6. Implement DWH Structures with
7. Implement Security Strategies
8. Implement Pipelines
9. Implement ETL Notebooks
10. Implement ETL & DWH Optimizations
11. Implement End to End Enterprise Data Flow

12. More.. !

What is Data Engineering?

Data Engineering is a technology with rich set of tools, environments and platforms to design, build, manage and optimizes Data Warehouses in Cloud.

ITEM #4: HOW TO BECOME A AWS DATA ENGINEER?

To make you a TRUE and CONFIDENT AWS Data Engineer, we have a detailed structured course curriculum with end to end integrations and in-depth concepts. Our trainers are Subject Matter Experts (SMEs) with genuine experience!

AWS Data Engineer Training:

- LINUX Concepts
- AWS Concepts
- Data Streaming
- AWS RDS
- AWS RedShift
- AWS Data Streaming
- Lambda
- Amazon Glue
- CloudFormation
- Amazon E MR
- Spark & PSpark
- AWS Athena
- Two Realtime Projects (End to End)

 **Duration:** 2 Months

 **Trainer:** Mr. Badri Nadh
16+ Years of Experience

AWS Data Engineer

- | | |
|----------------------|------------------------|
| ✓ Amazon Glue | ✓ Cloud Datawarehouse |
| ✓ Amazon Redshift | ✓ ETL/ELT Pipelines |
| ✓ AWS Kinesis | ✓ Data Lake & Linux |
| ✓ EMR & PySpark | ✓ Big Data Analytics |
| ✓ AWS Lambda | ✓ Big Data Processing |
| ✓ AWS Step Functions | ✓ CI/CD Pipelines |
| ✓ AWS S3 Storage | ✓ Automation, Security |
| ✓ IAM, KMS in AWS | ✓ Real-time Project |



- | | | |
|---------------------|--------------------|----------------------|
| ✓ 100% Hands-On | ✓ Realtime Project | ✓ Certification Guid |
| ✓ Concept wise FAQs | ✓ Project FAQ's | ✓ Resume Guidance |

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Module 1: LINUX

Ch 1: LINUX Introduction

- ✓ Client-Server Architecture
- ✓ GUI vs CLI
- ✓ Navigating through CLI
- ✓ Basic commands
- ✓ File System Hierarchy
- ✓ Help commands

Ch 2: File Hierarchy System

- ✓ Relative Path Concepts
- ✓ Absolute Path Concepts
- ✓ Common File Types
- ✓ Regular files
- ✓ Directories, Links
- ✓ Realtime Usage

Ch 3: File Management

- ✓ Create Files, Directories
- ✓ touch and mkdir
- ✓ Directory Operations
- ✓ Commands & Usage
- ✓ File Editing Options
- ✓ Text Editors (vim)

Ch 4: Basic User Management

- ✓ User Login Activity
- ✓ Viewing login records
- ✓ Local User Authentication
- ✓ /etc/passwd, /etc/shadow
- ✓ useradd, usermod, userdel
- ✓ Custom config & Profiles

Ch 5: Adv. File Management

- ✓ File and Directory Access
- ✓ Permissions Management
- ✓ chmod Realtime Usage
- ✓ Symbolic Mode
- ✓ Numeric Mode
- ✓ Configuring and using sudo

Ch 6: Variables

- ✓ Environment variables
- ✓ Shell variables
- ✓ Variable Substitution
- ✓ Command Substitution
- ✓ Using backticks & \$
- ✓ Using LINUX in AWS

Module 2: AWS Engineering (Cloud ETL, EC2, S3)

Ch 7: Cloud Computing

- ✓ Cloud Architecture & Use
- ✓ Cloud Computing Concepts
- ✓ Cloud Implementation Models
- ✓ Public, Private, and Hybrid
- ✓ AWS Cloud: Properties
- ✓ AWS Cloud: Advantages
- ✓ AWS Cloud: Usage Scope

Ch 8: AWS Concepts

- ✓ AWS Free Tier Account
- ✓ Account setup
- ✓ AWS Initial Configuration
- ✓ AWS Global Infrastructure
- ✓ Overview of Regions
- ✓ Availability Zones, Edges
- ✓ AWS Console Options

Ch 9: Compute

- ✓ Creating EC2 Instances
- ✓ Instance types, AMIs
- ✓ Instance Launch Options
- ✓ Security Groups, Ports
- ✓ SSH Overview, Key Pairs
- ✓ Key pair creation and SSH
- ✓ Private vs Public vs Elastic IP

Ch 10: Security & IAM

- ✓ IAM Introduction
- ✓ Core IAM Architecture
- ✓ Managing Users & Groups
- ✓ Creating and managing IAM
- ✓ Group Policies, Inline Policies
- ✓ Difference and use cases
- ✓ AWS Cloud Shell, IAM

Ch 11: EC2 Instance Storage

- ✓ EBS : Elastic Block Store
- ✓ Managing EBS Volumes
- ✓ Volume Usage Options
- ✓ EBS Snapshots & Usage
- ✓ Cross-AZ, Replication
- ✓ EBS Encryption
- ✓ Amazon Machine Images

Ch 12: S3 Storage Service

- ✓ S3 Buckets and Objects
- ✓ S3 Usage Management
- ✓ S3 Versioning, Policies
- ✓ Access Control
- ✓ Static Website Hosting
- ✓ S3 Storage Classes
- ✓ Automation,EFS Concepts

Ch 13: Cloud Network & VPC

- ✓ Introduction to Networking
- ✓ CIDR : Notation, Usage
- ✓ Public, Private Subnets
- ✓ Subnet Creation Options
- ✓ Public and Private VPCs
- ✓ VPC setup & Configuration

Ch 14: Cost Management

- ✓ AWS Budgets Overview
- ✓ Budget Management
- ✓ Cost Management Tools
- ✓ AWS Cost Explorer
- ✓ Cost / Pricing Reports
- ✓ Real-time Strategies

Ch 15: CloudWatch

- ✓ Metrics
- ✓ Dashboards
- ✓ Alarms
- ✓ Logs
- ✓ Events (basics)

Ch 16: AWS Kinesis - 1

- ✓ Amazon Kinesis
- ✓ Realtime Data Streaming
- ✓ Amazon Kinesis Data streams
- ✓ Creating Data Stream
- ✓ Enhanced Fan-Out
- ✓ Lambda function & Kinesis

Ch 17: AWS Kinesis - 2

- ✓ Kinesis Firehose
- ✓ Data Firehose Stream
- ✓ Firehose – Transformations
- ✓ Firehose with Lambda
- ✓ ETL Implementations
- ✓ Data Streaming

Module 3: AWS Engineering (RDS, RedShift)

Ch 18: RDS DB Database - 1

- ✓ Database on EC2 instance
- ✓ Introduction to RDS
- ✓ RDS Networking and Subnet
- ✓ Create a VPC for RDS
- ✓ RDS Subnet Group
- ✓ Create an RDS Instance
- ✓ View an RDS Instance

Ch 19: RDS DB Database - 2

- ✓ RDS Usage in OLTP
- ✓ RDS Backups and Snapshots
- ✓ Restore RDS from Backup
- ✓ Share RDS Snapshots
- ✓ RDS Encryption in Transit

- ✓ Delete an RDS Instance

Ch 20: RDS DB Database - 3

- ✓ Authenticating to RDS
- ✓ Credentials, IAM
- ✓ Secrets Manager
- ✓ RDS Parameter Groups
- ✓ RDS Proxy, Multi-AZ RDS
- ✓ RDS Read Replicas

Ch 21: Amazon Redshift - 1

- ✓ Redshift overview
- ✓ Redshift Serverless
- ✓ Provisioned Cluster
- ✓ Architecture Overview
- ✓ Clusters & Nodes
- ✓ Create Redshift Cluster
- ✓ Access Redshift Cluster
- ✓ Query Editor, Node Types

Ch 22: Amazon Redshift - 2

- ✓ Storage, Resizing Methods
- ✓ Snapshots & Sharing
- ✓ Resizing Snapshots
- ✓ Redshift – VACUUM
- ✓ Load Data From S3
- ✓ Unload Data
- ✓ Federated Queries
- ✓ Redshift Spectrum

Ch 23: Amazon Redshift - 3

- ✓ AWS RedShift Security
- ✓ AWS RedShift Connections
- ✓ Authentication Types
- ✓ Optimization Options
- ✓ Data Load Operations
- ✓ Data Load Requirements
- ✓ Transformations with ELT

Ch 24: Amazon Redshift - 4

- ✓ Need for AWS Lambda
- ✓ Need for AWS Glue
- ✓ Need for AWS Athena
- ✓ AWS Redshift Tuning
- ✓ AWS RedShift Connections

Module 4: AWS Engineering (Lambda, Athena)

Ch 25: Lambda Introduction

- ✓ What is serverless
- ✓ AWS Lambda Introduction
- ✓ AWS Lambda for Python
- ✓ AWS Lambda Python code
- ✓ Packages and Deployments
- ✓ AWS Lambda configuration

- ✓ AWS Lambda Settings

Ch 26: Lambda Implementation

- ✓ AWS Lambda Layers
- ✓ Python with Lambda
- ✓ Java with Lambda
- ✓ AWS Lambda - S3
- ✓ Event Notifications in AWS
- ✓ API Gateway, Aliases
- ✓ AWS Lambda – Snapstart

Ch 27: AWS Athena

- ✓ Athena overview
- ✓ Query data using Athena
- ✓ Federated Queries
- ✓ Performance and cost
- ✓ Workgroups
- ✓ Workgroups (Hands-on)
- ✓ Querying with Athena

Module 5: AWS Engineering (Glue, EMR, Spark)

Ch 28: AWS Glue - 1

- ✓ AWS Glue overview
- ✓ Need for AWS Glue
- ✓ AWS Glue Usage Scope
- ✓ Setting up Crawlers
- ✓ AWS Glue Costs
- ✓ AWS Budgets

Ch 29: AWS Glue - 2

- ✓ Stateful vs Stateless
- ✓ Stateless Data Ingesting
- ✓ Glue Transformations (ETL)
- ✓ Glue Data Quality
- ✓ Glue workflows
- ✓ Scheduling Crawlers & ETL

Ch 30: AWS Glue - 3

- ✓ Default Classifiers
- ✓ Custom Classifiers
- ✓ Glue Triggers
- ✓ Run the pipelines using CloudFormation

Ch 31: EMR & Spark

- ✓ EMR concepts
- ✓ EMR in AWS Big Data
- ✓ Spark Concepts
- ✓ PySpark & ETL
- ✓ PySpark & DWH
- ✓ End to End Integrations

Module 6: Realtime Projects

- 👉 📄 **Banking Project / Finance**
- 👉 📄 **Ecommerce / Health Care / Telecom**

All sessions are practical, step by step. Kindly ensure on-time practice for best results.

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👉 **We assure you:**

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- ✓ Resume, Mock Interviews, more .. !



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Trending Jobs

- ➔ Data Analyst
- ➔ Business Analyst
- ➔ Data Engineer
- ➔ SQL Developer
- ➔ SQL DBA
- ➔ ETL Admin
- ➔ Data Scientist



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