









AWS - SNOWFLAKE DATA ENGINEER COURSE CURRICULUM











Post-Training Roles (After Completion of Training & Hands-on):

- Snowflake Developer / Data Engineer
- AWS Data Engineer
- AWS-Specific Analytics Services like Glue (PySpark)

Training & Project Overview:

- Real-time use case (Spotify dataset, etc.) in creating and managing data lakes
- Covers Medallion Architecture:
- Raw Zone
- Cleansed Zone
- Reporting Zone
- End-to-End Data Pipeline: from data migration to warehouse egress
- Pipeline orchestration using:
- Step Functions
- Glue Workflows
- Event-driven models
- PySpark transformations using AWS Glue ETL Jobs to create a Snowflake data warehouse
- Introduction to Boto3 (Python SDK) for interacting with AWS services
- Email notifications through SNS
- Job scheduling and monitoring

















AWS Services Covered (Day-Wise Plan)

Day 1: Introduction

- Data Engineering with AWS Analytical Services
- Signing up and Logging in to AWS
- AWS Billing Dashboard Overview

Day 2: IAM (Identity & Access Management)

- Overview of Roles, Users, and Policies
- Creating and Attaching IAM Custom Policies

Day 3: Amazon S3

- Introduction to S3
- Creating S3 Buckets
- Managing S3 Objects
- S3 Versioning
- Storage Classes in S3

Day 4: Lambda Functions

- Creating and Deploying First Lambda
- Lambda Layers
- Environment Variables
- Using Boto3 in Lambda

Day 5 to 8: AWS Glue (ETL)

- Introduction to Glue: Jobs, Crawlers, Glue Catalog, Athena
- Glue Workflows
- Scheduling and Triggering Jobs
- Writing PySpark Jobs
- Data Transformation and Validation using Athena

Day 9: Databases

- RDS Overview
- DynamoDB (NoSQL Database)

Day 10 to 11: Data Migration (DMS)

- Introduction to DMS
- DMS Components: Tasks, Replication Instances, Endpoints
- Full Load and CDC (Change Data Capture)

















• Overview of Snowflake and Redshift

Day 13: Messaging and Notification

- SQS (Simple Queue Service)
- SNS (Simple Notification Service)

Day 14 to 15: AWS Step Functions

• Orchestrating Data Workflows

Day 16: AWS CloudWatch

- EventBridge Rules
- Job Scheduling and Monitoring

Day 17 to 18: Miscellaneous Topics

- AWS Data Engineering Architectures
- ETL Processes
- Overview of Data Platforms

















SNOWFLAKE TRAINING TOPICS

Day 19: Getting Started

- Account Creation
- UI Walkthrough

Day 20: Architecture

Overview of Snowflake Architecture

Day 21: Editions and Roles

- Account Editions
- Role Hierarchy

Day 22: Objects in Snowflake

Tables, Views, Warehouses, Schemas

Day 23: Table Types

- Temporary Tables
- Transient Tables
- Permanent Tables

Day 24: File Formats and Stages

- Working with File Formats
- Internal and External Stages

Day 25 to 26: Data Ingestion

- COPY Command
- Snowpipe for Streaming and Incremental Load

Day 27: Automation

- Streams
- Tasks

Day 28: Advanced Features

- Materialized Views
- Cloning Tables
- Swapping Tables

Day 29: Time Travel

• Restoring Previous Data Versions

Day 30: Data Security

• Dynamic Data Masking



















Thank You for Going Through AWS - Snowflake Data Engineer Curriculum We hope this guide has provided a clear and structured learning path to strengthen your skills in AWS - Snowflake Data Engineer.

*** NEXT STEPS**

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

Need Help or Guidance? Feel free to contact our course support team: **Course Coordinator**

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