



AWS Data Engineering

Module 1 : Linux Concepts

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 Concepts

Ch 7: Cloud Computing ✓ Cloud Architecture & Use ✓ Cloud Computing Concepts ✓ Cloud Impl. 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: Elastic Compute (EC2) ✓ 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	Ch 11: EC2 Instance Storage ✓ EBS : Elastic Block Store ✓ Managing EBS Volumes ✓ Volume Usage Options ✓ EBS Snapshots & Usage	Ch 12: S3 Storage Service ✓ S3 Buckets and Objects ✓ S3 Usage Management ✓ S3 Versioning, Policies ✓ Access Control

✓ Group Policies, Inline Policies ✓ Difference and use cases ✓ AWS Cloud Shell	✓ Cross-AZ, Replication ✓ EBS Encryption ✓ Amazon Machine Images	✓ Static Website Hosting ✓ S3 Storage Classes ✓ Automating Transitions
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: Elastic File System ✓ Amazon EFS : Use ✓ EFS: Creation, Usage ✓ EFS Lifecycle Management ✓ File Management in EFS ✓ EBS vs EFS in Real-time ✓ AWS Policy Simulator	Ch 15: Cost Management ✓ AWS Budgets Overview ✓ Budget Management ✓ Cost Management Tools ✓ AWS Cost Explorer ✓ Cost / Pricing Reports ✓ Price Optimization Strategies

Module 3 : Data Streaming, Database and Redshift

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	Ch 18: RDS DB Database - 1 ✓ 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 ✓ Clusters & Nodes ✓ Create Redshift Cluster ✓ Access Redshift Cluster ✓ Query Editor, Node Types ✓ Storage, Resizing Methods
Ch 22: Amazon Redshift - 2 ✓ 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 ✓ Using ETL Tools ✓ Need for AWS Lambda ✓ Need for AWS Glue ✓ Need for AWS Athena ✓ AWS Redshift Tuning ✓ AWS RedShift Connections

Module 4 : Lambda, Glue and 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 ✓ AWS Lambda - S3 ✓ Event Notifications in AWS ✓ API Gateway Integration ✓ Alias and Versions ✓ 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
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 ✓ Run Glue ETL Jobs ✓ Glue Job Types ✓ Glue Job Types ✓ AWS Glue DataBrew ✓ Transformations ✓ AWS Glue DataBrew
Ch 31 : End to End Implementation with RDS, ETL (Glue, Athena) and RedShift		

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



SQL School

Quality Training Assured

MSSQL	Azure
Oracle	AWS
MySQL	Snowflake
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Java	SAP
DevOps	AI

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Trending Job Roles

- Data Analyst
- Data Scientist
- Data Engineer
- Solution Architect
- Consultant, more .. !



Training Highlights

- ✓ Step by Step
- ✓ LIVE Project(s)
- ✓ Job Assistance
- ✓ Resume Guidance
- ✓ Concept wise FAQs



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