**AWS ETL Course**

**Cloud Computing:**

* Cloud computing
* different type of Cloud computing
* AWS Cloud Overview
* Walk through AWS Console & Services

**AWS IAM CLI:**

* Overview
* IAM Users and Group
* IAM Policies
* AWS Access key
* AWS CLI setup
* AWS CLI commands
* AWS Cloudshell
* IAM Role

**AWS S3:**

* Overview
* S3 security: bucket policy
* S3 presigned url
* S3 static website
* S3 versioning
* S3 replication
* S3 storage classes
* Static website

**Advance S3:**

* S3 lifecycle rule
* S3 Event Notification
* S3 performance
* S3 object tag and meta data
* S3 query
* S3 select and glacier Select
* S3 access

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**AWS SNS:**

* Overview
* SNS Configuration
* Publisher, Topic, Subscriber
* S3 Event SNS Notification

**AWS CLI, SDK, IAM policies**

* AWS CLI Profile
* AWS SDK
* AWS CLI With MFA
* AWS Credentials Provide

**AWS Integration & Messaging:**

* Overview
* Introduction to messaging
* AWS SQS Standard Queues
* SQS Queues Access policy
* SQS- Message visibility Timeout
* SQS- Dead letter queue
* SQS-Delay Queue
* SQS Fifo Queue
* AWS- SNS
* SNS & SQS
* SQS VS SNS

**AWS Lambda:**

* Overview AWS Lambda
* Lambda function creation
* lambda Synchronous invocation
* lambda and application load balancer
* Lambda asynchronous invocation and DLQ
* Lambda cloudwatch event bridgeenevt
* Lambda S3 event notification
* lambda event source mapping
* Lambda destination
* Lambda Environment variable
* Lambda Monitoring and X-rays tracing
* Lambda function performance
* Lambda Layers
* Lambda External dependencies
* Lambda version Alias
* Lambda code deployed(Python)
* Lambda function url
* Lambda Limits

**AWS Glue Shell Job:**

* Overview
* AWS Glue Shell Creation
* Glue Job : Python Script
* Glue Job Configurations
* Glue Job Runtime Parameters
* Glue Job Logs
* Glue Job Scheduling
* Glue Job external library(python packages)
* Glue job to load data into S3

**Glue Workflow:**

* Workflow Overview
* Workflow creation for ETL job
* Workflow Job Run status
* Triggering workflow

**AWS Monitoring:**

* AWS monitoring intro
* Cloudwatch logs
* Cloudwatch Metric
* Cloudwatch custoem Metric
* Cloudwatch Agent & Cloudwatch Agent Log
* Cloudwatch Log Metric filter
* Cloudwatch Alarms
* Cloudwatch Synthetics

**RDS Database:**

* Design Principle
* Database basic
* RDS basic
* Operations on RDS

**Mini Project:**

* ETL Pipeline