SnapLogic Training Module

Module 1: Introduction to SnapLogic

Objective: Understand SnapLogic's architecture and components.

- Overview of SnapLogic
- Key concepts: Snap, Pipeline, Task, Snaplex, Accounts
- User interface tour: Dashboard, SnapMap, and Designer

Module 2: Getting Started with Pipelines

Objective: Build simple pipelines.

- Creating your first pipeline
- Understanding Snap types: Source, Transformation, and Target
- Basic Snaps: File Reader, File Writer, and Mapper, Formatter, Parser, Splitter
- Automatic Iteration In SnapLogic
- Running and testing pipelines

Module 3: Working with Data Sources

Objective: Connect to various data sources.

- Connecting to databases (e.g., MySQL, Oracle)
- Integrating with cloud applications (e.g., Salesforce, ServiceNow)
- Overview of REST APIs and SOAP connections (Important)

Module 4: REST Snaps

Objective: Work with REST APIs in SnapLogic.

- Understanding REST architecture
- Using the REST Get, Post, Put, and Delete Snaps
- Configuring authentication methods (OAuth, Basic Auth)
- Handling response formats (JSON, XML)
- Pagination, API Filter

Module 5: Important Transformation Snaps

Objective: Utilize key transformation Snaps.

- Overview of essential transformation Snaps (e.g., Mapper, Join, Aggregate)
- Using the Expression Language for advanced data manipulations
- Implementing data cleansing with the Filter Snap
- Customizing data formats with the Formatter Snap
- LookUP Snap for cache and Dynamic Mapping

Module 6: Regular Expressions (Regex) in SnapLogic

Objective: Apply regex for data manipulation.

- Introduction to regular expressions: syntax and usage
- Using regex with the Mapper Snap for data validation and extraction
- Practical examples of regex in data transformation
- Best practices for writing and testing regex patterns

Module 7: Data Transformation and Mapping and FLOW Snaps

Objective: Transform data within SnapLogic.

- Complex transformations using expressions and functions
- Understanding JSON and XML data structures
- Data cleansing and enrichment techniques
- FLOW snaps Tails, Head, Route and Copy Snaps and their uses with Use case

Module 8: Advanced Pipeline Design

Objective: Create complex and reusable pipelines.

- Building reusable Snaps and sub-pipelines
- Implementing error handling and logging
- Utilizing the pipeline executor and scheduler
- Performance optimization techniques

Module 9: Integration and Triggers

Objective: Implement orchestrated data flows.

- Understanding pipeline triggers TASK and Scheduled Task, Ultra Task
- Creating multi-pipeline workflows
- Utilizing the SnapLogic Integration Cloud features
- XML Generation via XSD
- Generate the XML based off an XSD
- Map to the JSON schema upstream
- Validates the generated XML against the XSD
- Creates one serialized XML string for every input document

Module 10: Parameterization through Files in SnapLogic

Objective: Parameterizing Files for CI/CD moving from DEV to QA to PROD

- Parameterizing accounts and Queries Importance of it
- Calling Triggered, scheduled Task and Child Pipeline with Parametarization

Module 10: Monitoring and Management

Objective: Monitor and manage SnapLogic pipelines.

- Using the Manager for pipeline management
- Creating a shared Pipeline for failure Email Alerts
- Monitoring pipeline performance and usage metrics
- Implementing alerts and notifications
- Troubleshooting common issues

Module 11: Real-world Use Cases

Objective: Apply knowledge to solve real business problems.

- Case studies from different industries
- Group exercises to design solutions
- Best practices for implementation and scaling