ASHOK IT

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MULE ESB

Mule ESB Introduction:

➤ What is ESB and how it helps to resolve the existing problems
➤ What is Mule and it's Features?
➤ Introduction in to Anypoint Studio and Anypoint Platform
➤ Testing Tools (Postman, RestClient and SoapUI)

Mule Basics:

➤ Mule Project structure
➤ What is Mule Flow?
➤ What is Mule Event and Event Processor?
➤ What is private Flow and sub flow?
➤ What is Variable and Global Elements?
➤ Debugging a mule flow
➤ Structure of a Mule Event in detail
➤ Track the event Data in and out of a Mule application
➤ Data Weave expressions in detail
➤ Embedded mule server in detail
➤ Mule Request processing in Detail

API-Lead Connectivity:

➤ Identify the problems in current design
➤ Modern API' to resolve the problems
  I. System API
  II. Process API
  III. Experienced API
➤ API Lead connectivity in any point platform

API Design:

➤ Introducing RAML
➤ Define APIs Using API Designer
➤ Mocking API's
➤ Creating API portals
➤ Adding API's to Exchange
➤ Resource Types and Traits
➤ Libraries and Securities
➤ Best Practises in RAML.

API' Implementation:

➤ Implementation API's using Any point Studio.
➤ Consuming Restful web service using HTTP Connector

- Consuming SOAP web service using web service Consumer and HTTP Connector
- Inserting Records in to database using DB Connector
- Inserting and Retrieving Records in to database using DB Connector
    - I. Bulk Insert into Database
    - II. Creating data Source
    - III. XA Transactions and Local Transactions
    - IV. Calling Stored procedures
- Scatter-Gather router to concurrent processing
- Encapsulate global elements in a separate configuration file
- Exception Handling:
    - I. Explore default error handling
    - II. Handle errors at the application level
    - III. Handle specific types of errors
    - IV. Handle errors at the flow level
    - V. Handle errors at the processor level
- Auditing the Request and response in to DB using DB Connector
- Send Error Notification to Administer using SMTP Server
- Externalizing the properties file Base on the Environment- Dev., SIT, UAT, PROD
- Secure properties place holder: password encryption
- Mule Domain: Configure here resource to be shared within the domain

On Premises Deployment:

- Install and start a customer-hosted Mule runtime
- Deploy a Mule application to a Mule runtime
- Manage Mule runtime licenses
- Edit a Mule runtime's configuration files

- Verifying the logs files and increasing the log file size.
- Deploy a Mule domain project to a Mule runtime
- Register a customer-hosted Mule runtime with Runtime Manager
- Use Runtime Manager to deploy a Mule application to a Mule runtime
- Creating clusters and Groups to deploy applications
- Providing securities to the resources

Cloud Deployment:

- Deploy a Mule application to a Cloud Environment
- Creating proxies for API
- Providing security to API
    - I. Throttling
    - II. Rate limiting
    - III. Http Basic authentication
    - IV. Secure Using OAuth etc...

Data Weave data transformation Language:

- Create transformations with the Transform Message component
- Transform basic JSON, Java, and XML data structures
- Transform complex data structures with arrays
- Define and use custom data types
- Use Data Weave functions
- Organize DataWeave code with variables and functions
- Coerce and format strings, numbers, and dates
- Match DataWeave types and conditions
- Add and remove data from objects and arrays

- Operate on array elements using the dw::core::Arrays module
- Extract parts of an object using the dw::core::Objects module
- Construct objects using object constructor curly braces
- Select keys, values, attributes, and namespace from an object
- Join reference data with message data using map operators
- Build an object from another object using the mapObject operator
- Shuffle the order of child elements of an object.
- Accumulate transformations of array elements using a reduce operator

Triggering Flows:

- Trigger a flow when a new file is added to a directory
- Trigger a flow when a new record is added to a database and use automatic watermarking
- Schedule a flow and use manual watermarking
- Publish and listen for JMS messages

Processing Records:

- Process items in a collection using the For Each scope.
- Process items in a collection using parallel For Each scope.
- Process records using the Batch Job scope
- Use filtering and aggregation in a batch step
- Message Enrichment
- Error handling in Batch Processing

Project Agile Methodology:

- **Interview Questions**
- **Resume preparation**
- **Dev ops Tools –**
  - Jenkins
  - Maven
  - Jira
  - Github