



# MCIA-LEVEL-1-MAINTENANCE<sup>Q&As</sup>

MuleSoft Certified Integration Architect - Level 1 MAINTENANCE

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### QUESTION 1

A trading company handles millions of requests a day. Due to nature of its business, it requires excellent performance and reliability within its application.

For this purpose, company uses a number of event-based API's hosted on various mule clusters that communicate across a shared message queue sitting within its network.

Which method should be used to meet the company's requirement for its system?

- A. XA transactions and XA connected components
- B. JMS transactions
- C. JMS manual acknowledgements with a reliability pattern
- D. VM queues with reliability pattern

Correct Answer: C

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### QUESTION 2

A Mule application is being designed To receive nightly a CSV file containing millions of records from an external vendor over SFTP, The records from the file need to be validated, transformed. And then written to a database. Records can be inserted into the database in any order.

In this use case, what combination of Mule components provides the most effective and performant way to write these records to the database?

- A. Use a Parallel for Each scope to Insert records one by one into the database
- B. Use a Scatter-Gather to bulk insert records into the database
- C. Use a Batch job scope to bulk insert records into the database.
- D. Use a DataWeave map operation and an Async scope to insert records one by one into the database.

Correct Answer: C

Correct answer is Use a Batch job scope to bulk insert records into the database

\* Batch Job is most efficient way to manage millions of records.

A few points to note here are as follows :

Reliability: If you want reliability while processing the records, i.e should the processing survive a runtime crash or other unhappy scenarios, and when restarted process all the remaining records, if yes then go for batch as it uses persistent

queues. Error Handling: In Parallel for each an error in a particular route will stop processing the remaining records in that route and in such case you'd need to handle it using on error continue, batch process does not stop during such error



instead you can have a step for failures and have a dedicated handling in it.

Memory footprint: Since question said that there are millions of records to process, parallel for each will aggregate all the processed records at the end and can possibly cause Out Of Memory.

Batch job instead provides a BatchResult in the on complete phase where you can get the count of failures and success. For huge file processing if order is not a concern definitely go ahead with Batch Job

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### QUESTION 3

A company is designing a mule application to consume batch data from a partner's ftps server. The data files have been compressed and then digitally signed using PGP. What inputs are required for the application to securely consume these files?

- A. ATLS context Key Store requiring the private key and certificate for the company PGP public key of partner PGP private key for the company
- B. ATLS context first store containing a public certificate for partner ftps server and the PGP public key of the partner TLS context Key Store containing the FTP credentials
- C. TLS context trust or containing a public certificate for the ftps server The FTP username and password The PGP public key of the partner
- D. The PGP public key of the partner The PGP private key for the company The FTP username and password

Correct Answer: D

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### QUESTION 4

A project uses Jenkins to implement CI/CD process. It was observed that each Mule package contains some of the Jenkins files and folders for configurations of CI/CD jobs.

As these files and folders are not part of the actual package, expectation is that these should not be part of deployed archive.

Which file can be used to exclude these files and folders from the deployed archive?

- A. muleignore
- B. \_unTrackMule
- C. muleInclude
- D. \_muleExclude

Correct Answer: D

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### QUESTION 5



A Mule application is built to support a local transaction for a series of operations on a single database. The mule application has a Scatter-Gather scope that participates in the local transaction.

What is the behavior of the Scatter-Gather when running within this local transaction?

- A. Execution of all routes within Scatter-Gather occurs in parallel Any error that occurs inside Scatter-Gather will result in a roll back of all the database operations
- B. Execution of all routes within Scatter-Gather occurs sequentially Any error that occurs inside Scatter-Gather will be handled by error handler and will not result in roll back
- C. Execution of all routes within Scatter-Gather occurs sequentially Any error that occurs inside Scatter-Gather will result in a roll back of all the database operations
- D. Execution of all routes within Scatter-Gather occurs in parallel Any error that occurs inside Scatter-Gather will be handled by error handler and will not result in roll back

Correct Answer: A

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