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# MuleSoft Certified Integration Architect - Level 1 MAINTENANCE

## Mulesoft MCIA-Level-1-Maintenance

## Version Demo

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## QUESTION NO: 1

An organization is creating a Mule application that will be deployed to CloudHub. The Mule application has a property named dbPassword that stores a database user's password.

The organization's security standards indicate that the dbPassword property must be hidden from every Anypoint Platform user after the value is set in the Runtime Manager Properties tab.

What configuration in the Mule application helps hide the dbPassword property value in Runtime Manager?

**A.** Use secure::dbPassword as the property placeholder name and store the cleartext (unencrypted) value in a secure properties placeholder file

**B.** Use secure::dbPassword as the property placeholder name and store the property encrypted value in a secure properties placeholder file

**C.** Add the dbPassword property to the secureProperties section of the pom.xml file

**D.** Add the dbPassword property to the secureProperties section of the mule-artifact.json file

## ANSWER: B

**Explanation:**

Reference: https://docs.mulesoft.com/runtime-manager/secure-application-properties

## QUESTION NO: 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.

## ANSWER: C

**Explanation:**

Explanation

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 reliabilty 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

## QUESTION NO: 3

An airline is architecting an API connectivity project to integrate its flight data into an online aggregation website. The interface must allow for secure communication high-performance and asynchronous message exchange.

What are suitable interface technologies for this integration assuming that Mulesoft fully supports these technologies and that Anypoint connectors exist for these interfaces?

**A.** AsyncAPI over HTTPS
AMQP with RabbitMQ JSON/REST over HTTPS

**B.** XML over ActiveMQ XML over SFTP XML/REST over HTTPS

**C.** CSV over FTP YAM L over TLS JSON over HTTPS

**D.** SOAP over HTTPS HOP over TLS gRPC over HTTPS

**ANSWER: A**

## QUESTION NO: 4

An organization is building a test suite for their applications using m-unit. The integration architect has recommended using test recorder in studio to record the processing flows and then configure unit tests based on the capture events

What are the two considerations that must be kept in mind while using test recorder

(Choose two answers)

**A.** Tests for flows cannot be created with Mule errors raised inside
the flow or already existing in the incoming event

**B.** Recorder supports smoking a message before or inside a ForEach processor

**C.** The recorder support loops where the structure of the data been tested
changes inside the iteration

**D.** A recorded flow execution ends successfully but the result does not reach its destination because the application is killed

**E.** Mocking values resulting from parallel processes are possible and will not affect the execution of the processes that follow in the test

**ANSWER: A D**

## QUESTION NO: 5

As an enterprise architect, what are the two reasons for which you would use a canonical data model in the new integration project using Mulesoft Anypoint platform ( choose two answers )

**A.** To have consistent data structure aligned in processes

**B.** To isolate areas within a bounded context

**C.** To incorporate industry standard data formats

**D.** There are multiple canonical definitions of each data type

**E.** Because the model isolates the back and systems and support mule applications from change

**ANSWER: A B**

## QUESTION NO: 6

An organization has implemented a continuous integration (CI) lifecycle that promotes Mule applications through code, build, and test stages. To standardize the organization's CI journey, a new dependency control approach is being designed to store artifacts that include information such as dependencies, versioning, and build promotions.

To implement these process improvements, the organization will now require developers to maintain all dependencies related to Mule application code in a shared location.

What is the most idiomatic (used for its intended purpose) type of system the organization should use in a shared location to standardize all dependencies related to Mule application code?

**A.** A MuleSoft-managed repository at repository.mulesoft.org

**B.** A binary artifact repository

**C.** API Community Manager

**D.** The Anypoint Object Store service at cloudhub.io

**ANSWER: C**

## QUESTION NO: 7

Which of the below requirements prevent the usage of Anypoint MQ in a company's network? (Choose two answers)

**A.** single message payload can be up to 15 MB

**B.** payloads must be encrypted

**C.** the message broker must be hosted on premises

**D.** support for point-to-point messaging

**E.** ability for a third party outside the company's network to consume events from the queue

**ANSWER: C D**

## QUESTION NO: 8

An organization has an HTTPS-enabled Mule application named Orders API that receives requests from another Mule application named Process Orders.

The communication between these two Mule applications must be secured by TLS mutual authentication (two-way TLS).

At a minimum, what must be stored in each truststore and keystore of these two Mule applications to properly support two-way TLS between the two Mule applications while properly protecting each Mule application's keys?

**A.** Orders API truststore: The Orders API public key
Process Orders keystore: The Process Orders private key and public key

**B.** Orders API truststore: The Orders API private key and public key
Process Orders keystore: The Process Orders private key public key

**C.** Orders API truststore: The Process Orders public key
Orders API keystore: The Orders API private key and public key
Process Orders truststore: The Orders API public key
Process Orders keystore: The Process Orders private key and public key

**D.** Orders API truststore: The Process Orders public key
Orders API keystore: The Orders API private key
Process Orders truststore: The Orders API public key
Process Orders keystore: The Process Orders private key

**ANSWER: C**

**Explanation:**

Reference: https://www.caeliusconsulting.com/blogs/one-way-and-two-way-tls-and-their-implementation-in-mulesoft/

## QUESTION NO: 9

As a part of project requirement, Java Invoke static connector in a mule 4 application needs to invoke a static method in a dependency jar file. What are two ways to add the dependency to be visible by the connectors class loader?

(Choose two answers)

**A.** In the Java Invoke static connector configuration, configure a path and name of the dependency jar file

**B.** Add the dependency jar file to the java classpath by setting the JVM parameters

**C.** Use Maven command to include the dependency jar file when packaging the application

**D.** Configure the dependency as a shared library in the project POM

**E.** Update mule-artefact.json to export the Java package

**ANSWER: B D**