MuleSoft

Exam Questions MCIA-Level-1

MuleSoft Certified Integration Architect - Level 1

NEW QUESTION 1
Mule applications need to be deployed to CloudHub so they can access on-premises database
systems. These systems store sensitive and hence tightly protected data, so are not accessible over
the internet.
What network architecture supports this requirement?

A. An Anypoint VPC connected to the on-premises network using an IPsec tunnel or AWSDirectConnect, plus matching firewall rulesin the VPC and on-premises
network
B. Static IP addresses for the Mule applications deployed to the CloudHub Shared Worker Cloud, plusmatching firewall rules and IPwhitelisting in the on-premises
network
C. An Anypoint VPC with one Dedicated Load Balancer fronting each on-premises database system,plus matching IP whitelisting in the load balancer and firewall
rules in the VPC and on-premisesnetwork
D. Relocation of the database systems to a DMZ in the on-premises network, with Mule applicationsdeployed to the CloudHub Shared Worker Cloud connecting
only to the DMZ

Answer: A

NEW QUESTION 2
Refer to the exhibit.

An organization deploys multiple Mule applications to the same customer -hosted Mule runtime.
Many of these Mule applications must expose an HTTPS endpoint on the same port using a serverside
certificate that rotates often.
What is the most effective way to package the HTTP Listener and package or store the server-side
certificate when deploying these Mule applications, so the disruption caused by certificate rotation is
minimized?

A. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing it from all Muleapplications that need to expose an HTTPS endpoint Package
the server-side certificate in ALL Mule APPLICATIONS that need to expose an HTTPS endpoint
B. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing it from all Muleapplications that need to expose an HTTPS endpointStore the
server-side certificate in a shared filesystem location in the Mule runtime's classpath,OUTSIDE the Mule DOMAIN or any Mule APPLICATION
C. Package an HTTPS Listener configuration In all Mule APPLICATIONS that need to expose an HTTPSendpoint Package the server-side certificate in a NEW
Mule DOMAIN project
D. Package the HTTPS Listener configuration in a Mule DOMAIN project, referencing It from all Muleapplications that need to expose an HTTPS endpoint
Package the server-side certificate in the SAME Mule DOMAIN project Go to Set

Answer: B

NEW QUESTION 3
An API client is implemented as a Mule application that includes an HTTP Request operation using a
default configuration. The HTTP Request operation invokes an external API that follows standard
HTTP status code conventions, which causes the HTTP Request operation to return a 4xx status code.
What is a possible cause of this status code response?

A. An error occurred inside the external API implementation when processing the HTTP request thatwas received from the outbound HTTP Request operation of
the Mule application
B. The external API reported that the API implementation has moved to a different external endpoint
C. The HTTP response cannot be interpreted by the HTTP Request operation of the Mule applicationafter it was received from the external API
D. The external API reported an error with the HTTP request that was received from the outboundHTTP Request operation of the Mule application

Answer: D

NEW QUESTION 4
An XA transaction Is being configured that involves a JMS connector listening for Incoming JMS
messages. What is the meaning of the timeout attribute of the XA transaction, and what happens
after the timeout expires?

A. The time that is allowed to pass between committing the transaction and the completion of the Mule flow After the timeout, flow processing triggers an error
B. The time that Is allowed to pass between receiving JMS messages on the same JMS connectionAfter the timeout, a new JMS connection Is established
C. The time that Is allowed to pass without the transaction being ended explicitly After the timeout,the transaction Is forcefully rolled-back
D. The time that Is allowed to pass for state JMS consumer threads to be destroyed After thetimeout, a new JMS consumer thread is created

Answer: C

NEW QUESTION 5

Refer to the exhibit.

An organization uses a 2-node Mute runtime cluster to host one stateless API implementation. The API is accessed over HTTPS through a load balancer that uses round-robin for load distribution.
Two additional nodes have been added to the cluster and the load balancer has been configured to recognize the new nodes with no other change to the load balancer.
What average performance change is guaranteed to happen, assuming all cluster nodes are fully operational?

A. 50% reduction in the response time of the API
B. 100% increase in the throughput of the API
C. 50% reduction In the JVM heap memory consumed by each node
D. 50% reduction In the number of requests being received by each node

Answer: D

NEW QUESTION 6
Anypoint Exchange is required to maintain the source code of some of the assets committed to it, such as Connectors, Templates, and API specifications.
What is the best way to use an organization's source-code management (SCM) system in this context?

A. Organizations should continue to use an SCM system of their choice, in addition to keeping source codefor these asset types in Anypoint Exchange, thereby enabling parallel development, branching, and merging
B. Organizations need to use Anypoint Exchange as the main SCM system to centralize versioning and avoid code duplication
C. Organizations can continue to use an SCM system of their choice for branching and merging, as long as they follow the branching and merging strategy enforced by Anypoint Exchange
D. Organizations need to point Anypoint Exchange to their SCM system so Anypoint Exchange can pull source code when requested by developers and provide it to Anypoint Studio

Answer: A

NEW QUESTION 7
An organization's security policies mandate complete control of the login credentials used to log in to Anypoint Platform. What feature of Anypoint Platform should be used to meet this requirement?

A. Enterprise Security Module
B. Client ID Secret
C. Federated Identity Management
D. Federated Client Management

Answer: C

NEW QUESTION 8
Refer to the exhibit. A business process involves two APIs that interact with each other asynchronously over HTTP.
Each API is implemented as a Mule application. API 1 receives the initial HTTP request and invokes API 2 (in a fire and forget fashion) while API 2, upon completion of the processing, calls back into API 1 to notify about completion of the asynchronous process.
Each API is deployed to multiple redundant Mule runtimes and a separate load balancer, and is deployed to a separate network zone. In the network architecture, how must the firewall rules be configured to enable the above interaction between API 1 and API 2?

A. To allow communication between the load balancers used by each API
B. To authorize the certificates used by both the APIs
C. To open direct two-way communication between the Mule runtimes of both APIs
D. To enable communication from each API\\'s Mule runtimes and network zone to the load balancer of the other API

Answer: C

NEW QUESTION 9
What is true about the network connections when a Mule application uses a JMS connector to interact with a JMS provider (message broker)?

A. The JMS connector supports both sending and receiving of JMS messages over the protocol determined by the JMS provider
B. The AMQP protocol can be used by the JMS connector to portably establish connections to various types of JMS providers
C. To receive messages into the Mule application, the JMS provider initiates a network connection to the JMS connector and pushes messages along this connection
D. To complete sending a JMS message, the JMS connector must establish a network connection with the JMS message recipient

Answer: D

NEW QUESTION 10
What limits if a particular Anypoint Platform user can discover an asset in Anypoint Exchange?

A. The type of the asset in Anypoint Exchange
B. The business groups to which the user belongs
C. If Design Center and RAML were both used to create the asset
D. The existence of a public Anypoint Exchange portal to which the asset has been published

Answer: A

NEW QUESTION 10
A retailer is designing a data exchange interface to be used by its suppliers. The interface must support secure communication over the public internet. The interface must also work with a wide variety of programming languages and IT systems used by suppliers.
What are suitable interface technologies for this data exchange that are secure, cross-platform, and internet friendly, assuming that Anypoint Connectors exist for these interface technologies?

A. EDJFACT XML over SFTP JSON/REST over HTTPS
B. SOAP over HTTPS HOP over TLS gRPC over HTTPS
C. XML over ActiveMQ XML over SFTP XML/REST over HTTPS
D. CSV over FTP YAML over TLS JSON over HTTPS

Answer: B

NEW QUESTION 11

An organization has various integrations implemented as Mule applications. Some of these Mule applications are deployed to customhosted Mule runtimes (on-premises) while others execute in theMuleSoft-hosted runtime plane (CloudHub). To perform the Integra functionality, these Mule applications connect to various backend systems, with multiple applications typically needing to access the backend systems.
How can the organization most effectively avoid creating duplicates in each Mule application of the credentials required to access thebackend systems?

A. Create a Mule domain project that maintains the credentials as Mule domain-shared resources Deploy the Mule applications to the Mule domain, so the credentials are available to the Mule applications
B. Store the credentials in properties files in a shared folder within the organization's data center Have the Mule applications load properties files from this shared location at startup
C. Segregate the credentials for each backend system into environment-specific properties files Package these properties files in each Mule application, from where they are loaded at startup
D. Configure or create a credentials service that returns the credentials for each backend system, and that is accessible from customer-hosted and MuleSoft-hosted Mule runtimes Have the Mule applications toad the properties at startup by invoking that credentials service

Answer: D

NEW QUESTION 15
A set of integration Mule applications, some of which expose APIs, are being created to enable a new business process. Various stakeholders may be impacted by this. These stakeholders are a combination of
semi-technical users (who understand basic integration terminology and concepts such as JSON and XML) and technically skilled potential consumers of the Mule applications and APIs.
What Is an effective way for the project team responsible for the Mule applications and APIs being built to communicate withthese stakeholders using Anypoint Platform and its supplied toolset?

A. Use Anypoint Design Center to implement the Mule applications and APIs and give the various stakeholders access to these Design Center projects, so they can collaborate and provide feedback
B. Create Anypoint Exchange entries with pages elaborating the integration design, including API notebooks (where applicable) to help the stakeholders understand and interact with the Mule applications and APIs at various levels of technical depth
C. Use Anypoint Exchange to register the various Mule applications and APIs and share the RAML definitions with the stakeholders, so they can be discovered
D. Capture documentation about the Mule applications and APIs inline within the Mule integration flows and use Anypoint Studio's Export Documentation feature to provide an HTML version of this documentation to the stakeholders

Answer: B

NEW QUESTION 18
An organization is designing an integration solution to replicate financial transaction data from a legacy system into a data warehouse (DWH).
The DWH must contain a daily snapshot of financial transactions, to be delivered as a CSV file. Daily transaction volume exceeds tens of millions of records, with significant spikes in volume during popular shopping periods.
What is the most appropriate integration style for an integration solution that meets the organization's current requirements?

A. API-led connectivity
B. Batch-triggered ETL
C. Event-driven architecture
D. Microservice architecture

Answer: D

NEW QUESTION 23
What aspects of a CI/CD pipeline for Mule applications can be automated using MuleSoft-provided Maven plugins?

A. Import from API designer, compile, package, unit test, deploy, publish to Anypoint Exchange
B. Compile, package, unit test, validate unit test coverage, deploy
C. Compile, package, unit test, deploy, integration test
D. Compile, package, unit test, deploy, create associated API instances in API Manager

Answer: C

NEW QUESTION 26
Refer to the exhibit.

One of the backend systems invoked by an API implementation enforces rate limits on the number of requests a particular client can make. Both the backend system and the API implementation are deployed to several non-production environments in addition to production.
Rate limiting of the backend system applies to all non-production environments. The production environment, however, does NOT have any rate limiting.
What is the most effective approach to conduct performance tests of the API implementation in a staging (non-production) environment?

A. Use MUnit to simulate standard responses from the backend systemThen conduct performance tests to identify other bottlenecks in the system
B. Create a mocking service that replicates the backend system's production performance characteristicsThen configure the API implementation to use the mocking service and conduct the performance tests
C. Conduct scaled-down performance tests in the staging environment against the rate limited backend systemThen upscale performance results to full production scale
D. Include logic within the API implementation that bypasses invocations of the backend system in a performance test situation, instead invoking local stubs that replicate typical backend system responsesThen conduct performance tests using this API implementation

Answer: C

NEW QUESTION 30
An Order microservice and a Fulfillment microservice are being designed to communicate with their clients through message-based integration (and NOT through API invocations).

The Order microservice publishes an Order message (a kind of command message) containing the details of an order to be fulfilled. The intention is that Order messages are only consumed by one Mule application, the Fulfillment microservice.

The Fulfillment microservice consumes Order messages, fulfills the order described therein, and then publishes an OrderFulfilled message (a kind of event message). Each OrderFulfilled message can be consumed by any interested Mule application, and the Order microservice is one such Mule application.

What is the most appropriate choice of message broker(s) and message destination(s) in this scenario?

A. Order messages are sent to an Anypoint MQ exchangeOrderFulfilled messages are sent to an Anypoint MQ queueBoth microservices interact with Anypoint MQ as the message broker, which must therefore scale to support the load of both microservices
B. Order messages are sent to a JMS queueOrderFulfilled messages are sent to a JMS topicBoth microservices interact with the same JMS provider (message broker) instance, which must therefore scale to support the load of both microservices
C. Order messages are sent directly to the Fulfillment microservicesOrderFulfilled messages are sent directly to the Order microserviceThe Order microservice interacts with one AMQP-compatible message broker and the Fulfillment microservice interacts with a different AMQP-compatible message broker, so that both message brokers can be chosen and scaled to best support the load of each microservice
D. Order messages are sent to a JMS queueOrderFulfilled messages are sent to a JMS topicThe Order microservice interacts with one JMS provider (message broker) and the Fulfillment microservice interacts with a different JMS provider, so that both message brokers can be chosen and scaled to best support the load of each microservice

Answer: D

NEW QUESTION 33
An organization is designing the following two Mule applications that must share data via a common persistent object store instance:
- Mule application P will be deployed within their on-premises datacenter. - Mule application C will run on CloudHub in an Anypoint VPC.
The object store implementation used by CloudHub is the Anypoint Object Store v2 (OSv2).
What type of object store(s) should be used, and what design gives both Mule applications access to the same object store instance?

A. Application C and P both use the Object Store connector to access the Anypoint Object Store v2
B. Application C and P both use the Object Store connector to access a persistent object store
C. Application C uses the Object Store connector to access a persistent objectApplication P accesses the persistent object store via the Object Store REST API
D. Application P uses the Object Store connector to access a persistent object storeApplication C accesses this persistent object store via the Object Store REST API through an IPsec tunnel

Answer: A

NEW QUESTION 35
An organization uses Mule runtimes which are managed by Anypoint Platform - Private Cloud Edition.
What MuleSoft component is responsible for feeding analytics data to non-MuleSoft analytics platforms?

A. Anypoint Runtime Manager
B. Anypoint Exchange
C. Anypoint API Manager
D. The Mule runtimes

Answer: A

NEW QUESTION 38
An integration Mule application consumes and processes a list of rows from a CSV file. Each row must be read from the CSV file, validated, and the row data sent to a JMS queue, in the exact order as in the CSV file.
If any processing step for a row fails, then a log entry must be written for that row, but processing of other rows must not be affected.
What combination of Mule components is most idiomatic (used according to their intended purpose) when implementing the above requirements?

A. Scatter-Gather componentOn Error Continue scope
B. VM connectorFirst Successful scopeOn Error Propagate scope
C. Async scopeOn Error Propagate scope
D. For Each scopeOn Error Continue scope

Answer: D

NEW QUESTION 43
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