

# Salesforce-MuleSoft-Associate Valid Test Experience - Salesforce-MuleSoft-Associate Instant Access



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## Salesforce Salesforce-MuleSoft-Associate Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Explain the common technical complexities and patterns in integration development: This section tests the expertise of a Platform Specialist and explores various technical patterns and complexities found in integration development. It includes a comparative review of interaction patterns such as batch, stream, and multicast, as well as integration composition styles like orchestration and choreography. The section emphasizes the use of design-first API development, observability practices, and log management. It also introduces architecture concepts such as microservices versus monolithic deployment, hybrid and cloud infrastructure, and the roles of API gateways and service meshes.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Describe the components and benefits of Anypoint Platform for API management: This section of the exam is designed for Integration Architects and focuses on MuleSoft's approach to API management. It outlines the primary components of Anypoint Platform that facilitate full lifecycle API development, including Universal API Management. The content highlights how the platform supports API-led connectivity and compares it with traditional API management approaches, emphasizing its superiority in delivering scalable and manageable enterprise APIs.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Recognize and interpret essential integration concepts and terminology: This section evaluates the competency of a Platform Specialist and covers fundamental terms and technical knowledge essential for integration. It includes differentiating cloud service models such as IaaS, PaaS, and SaaS, and the supporting infrastructure such as computing, storage, and scalability principles. The domain further explores network protocols, data formats like XML and JSON, and security concepts in API and enterprise systems. A detailed understanding of HTTP mechanics, RESTful services, and classifications of API types such as GraphQL and AsyncAPI is expected. It also introduces precise terminology necessary for defining API roles and interactions.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>Recognize common integration problems, use cases, and technical solutions: This section of the exam measures the skills of an Integration Architect and focuses on recognizing integration scenarios and choosing appropriate technologies. It distinguishes between enterprise system types and compares traditional versus modern integration approaches. Candidates are expected to deconstruct complex business problems into core use cases and identify suitable technologies to support them. A solid understanding of technology classes and their application in business scenarios is tested, along with knowledge of how to break down an integration solution into its system components.</li> </ul>
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### **Salesforce Certified MuleSoft Associate Sample Questions (Q11-Q16):**

#### **NEW QUESTION # 11**

According to MuleSoft a synchronous invocation of a RESTful API using HTTP to gel an individual customer record from a single system is an example of which system integration interaction pattern?

- A. Request-Reply
- B. Multicast
- C. One-way
- D. Batch

#### **Answer: A**

Explanation:

In system integration, different interaction patterns are used depending on the communication requirements between systems. For a synchronous invocation of a RESTful API using HTTP to get an individual customer record from a single system, the Request-Reply pattern is used. Here's a detailed explanation:

Request-Reply Pattern:

Definition: This pattern involves a client sending a request to a server and waiting for a reply. The communication is synchronous, meaning the client waits for the server to process the request and send back the response.

Typical Use Case: It is used when immediate feedback is required from the server, such as retrieving a specific customer record. RESTful API and HTTP:

Synchronous Communication: HTTP is inherently synchronous, making it suitable for Request-Reply interactions where the client expects an immediate response.

Data Retrieval: Commonly used for GET requests in RESTful APIs to retrieve data from a server.

Example:

Scenario: A client application requests customer details by making a GET request to a RESTful API endpoint. The server processes the request and returns the customer record.

MuleSoft Documentation: Integration Patterns

REST API Design: Request-Reply Pattern

#### **NEW QUESTION # 12**

What are two reasons why a typical MuleSoft customer favors a MuleSoft-hosted Anypoint Platform runtime plane over a customer-hosted runtime for its Mule application deployments? (Choose two.)

- A. increased application isolation
- **B. Reduced time-to-market for the first application**
- C. Reduced application latency
- D. Increased application throughput
- **E. Reduced IT operations effort**

**Answer: B,E**

Explanation:

Choosing a MuleSoft-hosted Anypoint Platform runtime plane offers several advantages, particularly in terms of deployment efficiency and operational management. Here's a detailed explanation of the selected reasons:

Reduced Time-to-Market for the First Application:

Pre-Configured Environment: MuleSoft-hosted Anypoint Platform provides a ready-to-use environment, which accelerates the deployment process.

Ease of Use: Developers can quickly set up and deploy applications without the need for extensive infrastructure setup and configuration.

Reduced IT Operations Effort:

Managed Services: MuleSoft handles the infrastructure management, including updates, scaling, and maintenance, reducing the operational burden on the IT team.

Focus on Development: IT teams can focus on developing and optimizing applications rather than managing runtime environments.

MuleSoft Documentation: Anypoint Platform Deployment Models

Benefits of MuleSoft-Hosted Runtime: CloudHub Advantages

**NEW QUESTION # 13**

An integration architect is designing an API that must accept requests from API clients for both XML and JSON content over HTTP/1.1 by default.

Which API architectural style when used for its intended and typical purposes, should the architect choose to meet these requirements?

- **A. REST**
- B. SOAP
- C. GraphQL
- D. gRPC

**Answer: A**

Explanation:

REST (Representational State Transfer) is an architectural style commonly used for designing networked applications, particularly APIs that need to handle multiple content types over HTTP. Here's a detailed explanation:

Content Negotiation:

Definition: REST APIs support content negotiation, allowing clients to request either XML or JSON formats by setting the Accept header in HTTP requests.

Flexibility: This capability makes REST ideal for scenarios where an API needs to serve multiple content types.

HTTP Protocol:

Usage: REST APIs operate over HTTP/1.1, making them compatible with web standards and easily accessible by various clients (browsers, mobile apps, etc.).

Methods: Supports standard HTTP methods like GET, POST, PUT, DELETE, allowing for CRUD operations.

Advantages:

Stateless: Each request from a client to server must contain all the information needed to understand and process the request.

Scalability: RESTful services can handle a high load of requests efficiently.

REST API Design: RESTful Web Services

Content Negotiation: HTTP Content Negotiation

**NEW QUESTION # 14**

A Kubernetes controller automatically adds another pod replica to the resource pool in response to increased application load

Which scalability option is the controller implementing?

- A. Vertical
- B. Down

- C. Horizontal
- D. Diagonal

#### Answer: C

Explanation:

Kubernetes offers several scalability options to handle varying application loads. The scenario described involves adding another pod replica in response to increased load, which is a form of horizontal scaling. Here's a detailed explanation:

Horizontal Scaling:

Definition: Horizontal scaling, also known as scaling out, involves adding more instances (pods) to distribute the load and increase capacity.

Implementation in Kubernetes: Kubernetes uses controllers like the Horizontal Pod Autoscaler (HPA) to automatically adjust the number of pod replicas based on observed CPU utilization or other select metrics.

Benefits:

Load Distribution: By adding more pod replicas, the load is evenly distributed, reducing the risk of any single pod being overwhelmed.

Fault Tolerance: Horizontal scaling enhances fault tolerance and availability, as multiple pod replicas can handle requests if one fails.

Automatic Scaling:

Kubernetes Controller: The HPA continuously monitors the application load and adjusts the number of pod replicas accordingly, ensuring optimal performance.

Kubernetes Documentation: Horizontal Pod Autoscaling

Kubernetes Scalability: Understanding Kubernetes Scaling

#### NEW QUESTION # 15

According to MuleSoft which principle Is common to both Service Oriented Architecture (SOA) and API-Jed connectivity approaches\*?

- A. Service interdependence
- B. Service **reusability**
- C. Service centralization
- D. Service statefulness

#### Answer: B

Explanation:

Both Service-Oriented Architecture (SOA) and API-led connectivity emphasize the principle of service reusability. Here's a detailed explanation:

Service Reusability:

Definition: Service reusability is the principle where services are designed to be reusable across different applications and use cases.

SOA: In SOA, services are modular components that can be reused in various business processes, reducing redundancy and promoting efficient service composition.

API-led Connectivity: This approach also stresses creating reusable APIs (System APIs, Process APIs, Experience APIs) that can be leveraged across multiple projects and applications.

Benefits:

Efficiency: Reduces development time and effort by reusing existing services.

Consistency: Ensures consistency in business logic and data access across different applications.

Scalability: Facilitates scaling by using standardized and reusable services/APIs.

MuleSoft Documentation: SOA vs. API-led Connectivity

Service Reusability: Principles of Service Reusability

#### NEW QUESTION # 16

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