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Salesforce Certified MuleSoft Integration Associate Exam Sample Questions (Q13-Q18):

NEW QUESTION # 13

A platform architect includes both an API gateway and a service mesh in the architecture of a distributed application for communication management.

Which type of communication management does a service mesh typically perform in this architecture?

- A. Between application services and the firewall
- B. Between services **within** the application
- C. Between the application and external API clients
- D. Between the application and external API implementations

Answer: B

Explanation:

A service mesh is typically used to manage communication between microservices within a distributed application. Here's a detailed explanation:

* Service Mesh:

* Definition: A service mesh is a dedicated infrastructure layer that manages service-to-service communication within a microservices architecture.

* Features: Provides features such as load balancing, service discovery, traffic management, and security (e.g., mutual TLS).

* Intra-Application Communication:

* Focus: It focuses on internal communication between microservices, ensuring reliability, security, and observability of inter-service communications.

* Management: Handles retries, circuit breaking, and service-to-service authentication transparently.

* API Gateway:

* Complementary Role: While a service mesh manages internal microservice communications, an API gateway manages external client requests and provides a single entry point for external API clients.

References

* Service Mesh Overview: What is a Service Mesh?

* Service Mesh vs. API Gateway: Service Mesh and API Gateway Comparison

NEW QUESTION # 14

A key CI/CD capability of any enterprise solution is a testing framework to write and run repeatable tests. Which component of Anypoint Platform provides the test automation capabilities for customers to use in their pipelines?

- A. Exchange Mocking Service
- B. Anypoint CLI
- **C. MUnit**
- D. Mule Maven Plugin

Answer: C

Explanation:

A robust CI/CD pipeline requires automated testing to ensure code quality and functionality. MuleSoft's MUnit provides this capability for Mule applications. Here's a detailed explanation:

* MUnit:

* Purpose: MUnit is MuleSoft's testing framework for creating automated tests for Mule applications.

* Capabilities:

* Unit Tests: Write unit tests to validate the behavior of individual components and flows.

* Integration Tests: Test interactions between multiple components and external systems.

* CI/CD Integration:

* Automation: Integrate MUnit tests into CI/CD pipelines using tools like Jenkins, GitLab CI, or Bamboo.

* Repeatable Tests: Ensures that tests are executed consistently with each code change, catching issues early in the development process.

* Pipeline Execution:

* Build and Test: The pipeline automatically runs MUnit tests during the build process, providing immediate feedback on the code changes.

* Quality Assurance: Helps maintain high code quality and reduces the risk of defects in production.

References

* MuleSoft Documentation: MUnit

* CI/CD Best Practices: MuleSoft CI/CD

NEW QUESTION # 15

What is an advantage of using OAuth 2.0 client credentials and access tokens over only API keys for API authentication?

- A. If the client secret is compromised, the client credentials do not have to be reissued
- B. If the client ID is compromised it can be exchanged for an API key
- C. If the access token is compromised it can be exchanged for an API key
- **D. If the access token is compromised, the client credentials do not have to be reissued**

Answer: D

Explanation:

OAuth 2.0 provides a more secure and flexible way of handling API authentication compared to API keys.

Here's a detailed explanation of the advantage mentioned:

* OAuth 2.0 Client Credentials Grant:

* How It Works: In this flow, a client application uses its client ID and client secret to obtain an access token from the authorization server.

* Access Tokens: These tokens are short-lived and used to authenticate API requests.

* Security Advantages:

* Token Compromise: If an access token is compromised, it only grants limited access because it has a short lifespan and can be easily revoked.

* Client Credentials: The client credentials (client ID and secret) are not exposed during API calls, reducing the risk of them being compromised.

* Token Refresh: New tokens can be obtained without exposing the client credentials again.

* Comparison with API Keys:

* API Keys: If an API key is compromised, it often provides long-term access without expiration.

Revoking the API key impacts all users or applications using it.

* OAuth Tokens: Compromised tokens can be individually revoked without needing to change the client credentials, minimizing disruption.

References

* OAuth 2.0 Framework: OAuth 2.0

* MuleSoft Security Best Practices: API Security

NEW QUESTION # 16

An organization's IT team must secure all of the internal APIs within an integration solution by using an API proxy to apply required authentication and authorization policies. Which integration technology, when used for its intended purpose should the team choose to meet these requirements if all other relevant factors are equal?

- A. API Management (APIM)
- B. Robotic Process Automation (RPA)
- C. Electronic Data Interchange (EDI)
- D. Integration Platform-as-a-Service (iPaaS)

Answer: A

Explanation:

Securing internal APIs within an integration solution is critical for protecting sensitive data and ensuring proper access controls. The use of API proxies to apply authentication and authorization policies is a best practice in API security. Here's a detailed explanation:

* API Management (APIM):

* Purpose: API Management platforms are designed specifically to manage, secure, and monitor APIs. They provide tools for designing, publishing, securing, and analyzing APIs.

* Key Features:

* Security: APIM platforms offer robust security features such as OAuth, JWT, API keys, and IP whitelisting to authenticate and authorize API consumers.

* API Proxies: They allow the creation of API proxies which act as intermediaries between the client and the backend service. This enables enforcing security policies without modifying the backend API.

* Implementation:

* Authentication and Authorization Policies: Using APIM, the IT team can easily configure policies for authentication (e.g., OAuth 2.0) and authorization to control access to APIs.

* Policy Enforcement: These policies are enforced at the API proxy level, ensuring that only authenticated and authorized requests reach the backend services.

* Monitoring and Analytics: APIM platforms provide detailed analytics and monitoring capabilities to track API usage, detect anomalies, and ensure compliance.

References

* MuleSoft Documentation: API Security

* API Management Overview: What is API Management

NEW QUESTION # 17

As part of a growth strategy a supplier signs a trading agreement with a large customer. The customer sends purchase orders to the supplier according to the ANSI X12 EDI standard and the supplier creates the orders in its ERP system using the information in the EDI document. The agreement also requires that the supplier provide a new RESTful API to process requests from the customer for current product inventory levels from the supplier's ERP system.

Which two fundamental integration use cases does the supplier need to deliver to provide an end-to-end solution for this business scenario? (Choose two.)

- A. Synchronized data transfer
- B. Data mashups
- C. Streaming data ingestion
- D. Sharing data with external partners
- E. User interface integration

Answer: A,D

Explanation:

To deliver an end-to-end solution for the described business scenario, the supplier needs to address both EDI processing and providing real-time data through a RESTful API. Here's a detailed explanation:

* Sharing Data with External Partners:

* EDI Integration: The supplier needs to process ANSI X12 EDI purchase orders from the customer and convert them into a format suitable for the ERP system.

* Partner Integration: Establishing secure and reliable data exchanges with the customer is crucial for seamless transactions.

* Synchronized Data Transfer:

* Real-Time API: Providing a RESTful API to allow the customer to query current product inventory levels from the supplier's ERP system.

* Data Consistency: Ensuring that the data provided through the API is accurate and up-to-date, reflecting the current state of the ERP system.

References

* MuleSoft Documentation: EDI Integration

* REST API Design: Designing APIs

* Data Synchronization: Real-Time Integration

NEW QUESTION # 18

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