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Question: 1

Which productivity advantage does Anypoint Platform have to both implement and manage an API?

- A. Automatic API specification generation
- B. Automatic API governance
- C. Automatic API proxy generation
- D. Automatic API semantic versioning

Answer: C

Explanation:

Anypoint Platform, MuleSoft's unified platform for API design and integration, offers several productivity advantages for both implementing and managing APIs. Among these features, automatic API proxy generation is particularly beneficial. Here's a step-by-step explanation:

API Implementation:

Design Center: In the Design Center, users can create API specifications using RAML or OAS. This environment provides tools to design and document APIs effectively.

Exchange: After defining the API, it can be published to Anypoint Exchange where it can be shared and discovered by others within the organization.

Automatic API Proxy Generation:

When an API is published to Exchange, Anypoint Platform allows for the automatic creation of an API proxy. An API proxy acts as a facade for your backend API, providing a layer of abstraction and security.

Advantages:

Security: Protects backend services by exposing only necessary endpoints and handling authentication, authorization, and rate limiting.

Traffic Management: Helps in managing traffic through throttling and caching.

Monitoring: Facilitates monitoring and logging to track API usage and performance.

This automation saves time and reduces the complexity of manual proxy setup, allowing developers to focus on core business logic.

API Management:

API Manager: Provides a dashboard to manage API policies, versions, and SLA tiers. Users can apply security policies, monitor traffic, and analyze API usage.

Monitoring: Integrated with Anypoint Monitoring, users get insights into API performance and health, enabling proactive management.

Reference:

MuleSoft Documentation: API Proxies

MuleSoft Anypoint Platform Overview: Anypoint Platform

Question: 2

An IT integration team followed an API-led connectivity approach to implement an order-fulfillment business process. It created an order processing API that coordinates stateful interactions with a variety of microservices that validate, create and fulfill new product orders.

Which interaction composition pattern did the integration architect who designed this order processing API use?

- A. Multicasting
- B. Orchestration
- C. Streaming
- D. Aggregation

Answer: B

Explanation:

In an API-led connectivity approach, different APIs are layered to provide modular and reusable services. For an order processing API that coordinates stateful interactions with various microservices, the integration architect used the orchestration interaction composition pattern. Here's a step-by-step explanation:

Understanding Orchestration:

Definition: Orchestration involves coordinating multiple services to achieve a complex business workflow. Unlike choreography, which relies on each service knowing its part, orchestration uses a central controller to manage the interactions.

Role of the Orchestrator: The orchestrator manages the execution sequence, handles the state, and ensures all the necessary steps are completed successfully.

Order Processing API:

API-Led Connectivity: An order processing API, following API-led connectivity, sits in the Process layer, handling complex business processes and logic.

Stateful Interactions: Orchestration is particularly suitable for stateful interactions where the process needs to remember the state between steps, such as validating an order, creating it, and fulfilling it.

Implementation Steps:

Microservices Interaction: The order processing API interacts with various microservices:

Validation Microservice: Checks the validity of the order details.

Creation Microservice: Creates the order in the system.

Fulfillment Microservice: Manages the order fulfillment process.

Coordination: The API orchestrates these steps, ensuring each one completes successfully before moving to the next, handling exceptions, and maintaining the state of the process.

Reference:

MuleSoft Documentation: Orchestration Pattern

API-led Connectivity: MuleSoft API-led Connectivity

Question: 3

Which key DevOps practice and associated Anypoint Platform component should a MuleSoft integration team adopt to improve delivery quality?

- A. Automated testing with MUnit
- B. Passive monitoring with Anypoint Monitoring
- C. Continuous design with API Designer
- D. Manual testing with Anypoint Studio

Answer: A

Explanation:

To improve delivery quality, a key DevOps practice is automated testing. Within the Anypoint Platform, MUnit is the tool specifically designed for this purpose. Here's a step-by-step explanation:

Automated Testing:

Definition: Automated testing involves using software tools to execute tests on the application automatically, ensuring that the code works as expected.

Benefits: It increases efficiency, consistency, and coverage of tests, reducing the risk of human error.

MUnit:

Integration Testing: MUnit is MuleSoft's integrated testing framework for applications built with Anypoint Studio. It allows developers to create and run tests for Mule applications, ensuring they function correctly.

Features:

Test Cases: Create comprehensive test cases to validate various parts of the Mule application.

Mocking: Mock external systems and dependencies, enabling isolated testing of application components.

Assertions: Validate the behavior of Mule flows with assertions.

Implementation Steps:

Design Tests: Within Anypoint Studio, design MUnit tests to cover different scenarios and edge cases of the Mule flows.

Run Tests: Execute these tests automatically during the CI/CD pipeline to ensure that new code changes do not break existing functionality.

Continuous Integration: Integrate MUnit tests with CI tools like Jenkins, Bamboo, or GitLab CI for continuous testing.

Reference:

MuleSoft Documentation: MUnit

DevOps Practices: MuleSoft DevOps

Question: 4

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

Answer: B

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.

Reference:

MuleSoft Documentation: API Security

API Management Overview: What is API Management

Question: 5

CloudHub is an example of which cloud computing service model?

- A. Software as a Service (SaaS)
- B. Platform as a Service (PaaS)
- C. Infrastructure as a Service (IaaS)
- D. Monitoring as a Service (MaaS)

Answer: B

Explanation:

CloudHub is MuleSoft's integration platform as a service (iPaaS) offering. It provides a platform for deploying and managing integration applications in the cloud. Here's a detailed explanation:

Platform as a Service (PaaS):

Definition: PaaS provides a cloud-based environment with everything required to support the complete lifecycle of building and deploying web applications and services without the complexity of managing the underlying hardware and software layers.

CloudHub Features:

Deployment: Simplifies the deployment of Mule applications to the cloud.

Management: Provides tools for managing application performance, scaling, and monitoring.
Connectivity: Offers out-of-the-box connectors and integration capabilities for various systems and services.

Benefits:

Scalability: Automatically scales applications based on demand.

Availability: Ensures high availability and reliability with built-in disaster recovery and failover capabilities.

Security: Provides robust security features to protect data and applications.

Reference:

MuleSoft Documentation: CloudHub

Cloud Computing Models: PaaS Overview

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