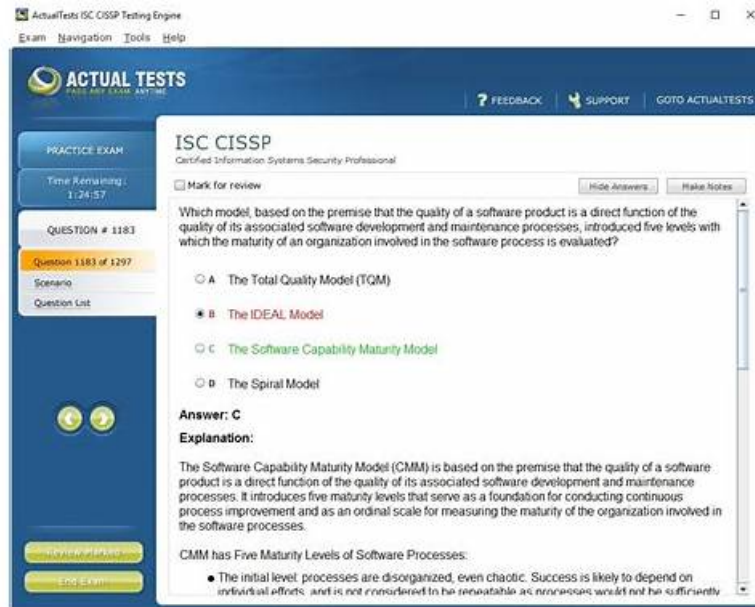


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Salesforce MuleSoft-Integration-Architect-I Exam Syllabus Topics:

Topic	Details
Topic 1	Designing Integration Solutions to Meet Reliability Requirements: It includes selecting alternatives to traditional transactions, recognizing the purpose of various scopes and strategies, differentiating disaster recovery and high availability, and using local and XA transactions.
Topic 2	Designing Integration Solutions to Meet Performance Requirements: This topic covers meeting performance and capacity goals, using streaming features, and processing large message sequences.
Topic 3	Designing and Developing Mule Applications: It includes selecting application properties, using fundamental features, designing with core routers, understanding the Salesforce Connector, and leveraging core connectors.
Topic 4	Designing Integration Solutions to Meet Persistence Requirements: It addresses the usage of VM queues and connectors, object stores and services, and stateful components configured with object stores.
Topic 5	Designing Automated Tests for Mule Applications: This topic covers unit test suites, and scenarios for integration and performance testing.
Topic 6	Designing Architecture Using Integration Paradigms: This topic focuses on creating high-level integration architectures using various paradigms. It includes API-led connectivity, web APIs and HTTP, event-driven APIs, and message brokers, and designing Mule application using messaging patterns and technologies.

Topic 7	• Applying DevOps Practices and Operating Integration Solutions: Its sub-topics are related to designing CI • CD pipelines with MuleSoft plugins, automating interactions with Anypoint Platform, designing logging configurations, and identifying Anypoint Monitoring features.
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Salesforce Certified MuleSoft Integration Architect I Sample Questions (Q88-Q93):

NEW QUESTION # 88

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

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

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

Answer: D

NEW QUESTION # 89

Which Anypoint Platform component should a MuleSoft developer use to create an API specification prior to building the API implementation?

- **A. API Designer**
- B. API Manager
- C. Runtime Manager
- D. MUnit

Answer: A

Explanation:

A MuleSoft developer should use API Designer to create an API specification prior to building the API implementation. API Designer is a component of Anypoint Platform that provides a web-based interface for designing and documenting APIs. It supports API modeling languages such as RAML and OAS, enabling developers to define the structure, resources, and operations of an API before proceeding with implementation. This approach aligns with the design-first methodology, ensuring a well-defined contract for the API.

References:

- * Anypoint API Designer
- * API Design Best Practices

NEW QUESTION # 90

A customer wants to use the mapped diagnostic context (MDC) and logging variables to enrich its logging and improve tracking by

providing more context in the logs.

The customer also wants to improve the throughput and lower the latency of message processing.

As an Mulesoft integration architect can you advise, what should the customer implement to meet these requirements?

- **A. Use async logger at the level greater than INFO and use pattern layout with [%MDC] in the log4j2.xml configuration file and then configure the logging variables**
- B. Use synchronous logging and use pattern layout with [%MDC] in the log4j2.xml configuration file and then configure the logging variables
- C. Use synchronous logging at the INFO, DEBUG or TRACE level and use pattern layout with [%MDC] in the log4j2.xml configuration file and then configure the logging variables
- D. Use async logger at the level equal to DEBUG or TRACE and use pattern layout with [%MDC] in the log4j2.xml configuration file and then configure the logging variables

Answer: A

Explanation:

To meet the requirements of enriching logging with more context and improving throughput while reducing latency, the customer should use an asynchronous logging approach. Here's why option B is correct:

* Async Logger: Asynchronous logging helps in improving the performance by decoupling the logging from the main thread of execution. This reduces the latency of message processing since logging operations are offloaded to a separate thread.

* Logging Level Greater than INFO: Logging at levels such as WARN, ERROR, or FATAL ensures that only essential logs are written asynchronously, further enhancing performance. Avoiding DEBUG or TRACE levels unless necessary reduces the overhead of logging.

* Pattern Layout with [%MDC]: Using the pattern layout with [%MDC] in the log4j2.xml configuration file allows the inclusion of mapped diagnostic context in the logs. MDC is a feature that provides context-specific information, such as transaction IDs or user IDs, which helps in tracing and debugging.

Example configuration in log4j2.xml:

```
<Configuration status="WARN"> <Appenders> <Console name="Console" target="SYSTEM_OUT">
<PatternLayout pattern="%d{yyyy-MM-dd HH:mm:ss} [%t] %-5p %c{1} - %msg [%MDC]%n"/> <
/Console> <Async name="Async"> <AppenderRef ref="Console"/> </Async> </Appenders> <Loggers>
```

```
<Root level="WARN"> <AppenderRef ref="Async"/> </Root> </Loggers> </Configuration>
```

This configuration ensures that the logs are enriched with context information provided by MDC and processed asynchronously to maintain high throughput and low latency.

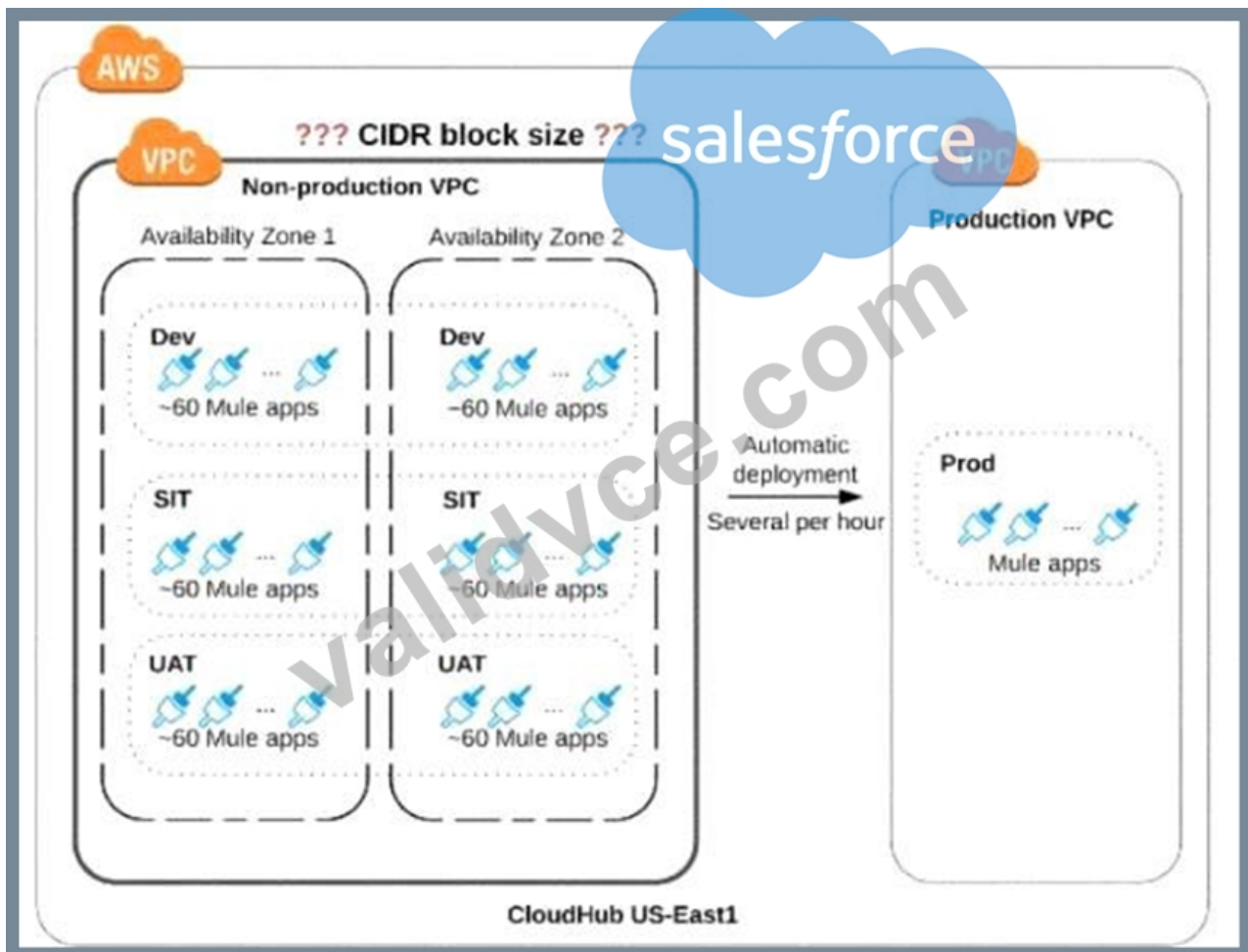
References

* Log4j2 Asynchronous Logging

* Mapped Diagnostic Context (MDC) in Log4j2

NEW QUESTION # 91

Refer to the exhibit.



An organization is sizing an Anypoint VPC for the non-production deployments of those Mule applications that connect to the organization's on-premises systems. This applies to approx. 60 Mule applications. Each application is deployed to two CloudHub workers. The organization currently has three non-production environments (DEV, SIT and UAT) that share this VPC. The AWS region of the VPC has two AZs.

The organization has a very mature DevOps approach which automatically progresses each application through all non-production environments before automatically deploying to production. This process results in several Mule application deployments per hour, using CloudHub's normal zero-downtime deployment feature.

What is a CIDR block for this VPC that results in the smallest usable private IP address range?

- A. 10.0.0.0/22 (1024 IPs)
- B. 10.0.0.0/25 (128 IPs)
- C. 10.0.0.0/26 (64 IPS)
- D. 10.0.0.0/24 (256 IPs)

Answer: A

Explanation:

Mule applications are deployed in CloudHub workers and each worker is assigned with a dedicated IP * For zero downtime deployment, each worker in CloudHub needs additional IP addresses * A few IPs in a VPC are reserved for infrastructure (generally 2 IPs) * The IP addresses are usually in a private range with a subnet block specifier, such as 10.0.0.1/24 * The smallest CIDR network subnet block you can assign for your VPC is /24 (256 IP addresses) (60*3 env * 2 worker per application) + 50% of (total) for zero downtime = 540 In this case correct answer is 10.0.0.0/22 as this provided 1024 IP's . Other IP's are insufficient.

NEW QUESTION # 92

What condition requires using a CloudHub Dedicated Load Balancer?

- A. When API invocations across multiple CloudHub workers must be load balanced
- B. When custom DNS names are required for API implementations deployed to customer-hosted Mule runtimes
- C. When cross-region load balancing is required between separate deployments of the same Mule application

- **D. When server-side load-balanced TLS mutual authentication is required between API implementations and API clients**

Answer: D

Explanation:

Correct answer is When server-side load-balanced TLS mutual authentication is required between API implementations and API clients CloudHub dedicated load balancers (DLBs) are an optional component of Anypoint Platform that enable you to route external HTTP and HTTPS traffic to multiple Mule applications deployed to CloudHub workers in a Virtual Private Cloud (VPC). Dedicated load balancers enable you to: * Handle load balancing among the different CloudHub workers that run your application. * Define SSL configurations to provide custom certificates and optionally enforce two-way SSL client authentication. * Configure proxy rules that map your applications to custom domains. This enables you to host your applications under a single domain

NEW QUESTION # 93

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