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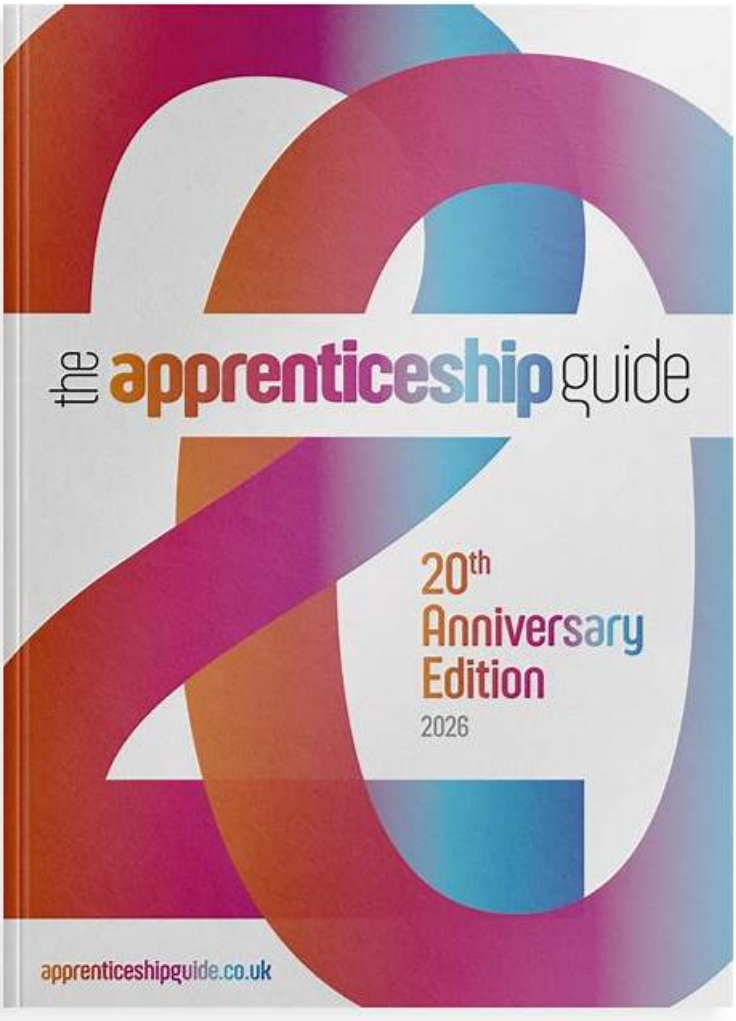

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Appian Certified Lead Developer Sample Questions (Q23-Q28):

NEW QUESTION # 23
You are required to create an integration from your Appian Cloud instance to an application hosted within a customer's self-managed environment.
The customer's IT team has provided you with a REST API endpoint to test with: https://internal.network/api/api/ping.
Which recommendation should you make to progress this integration?

- A. Expose the API as a SOAP-based web service.
- B. Deploy the API/service into Appian Cloud.
- C. Add Appian Cloud's IP address ranges to the customer network's allowed IP listing.
- D. Set up a VPN tunnel.

Answer: D

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, integrating an Appian Cloud instance with a customer's self-managed (on-premises) environment requires addressing network connectivity, security, and Appian's cloud architecture constraints. The provided endpoint (https://internal.network/api/api/ping) is a REST API on an internal network, inaccessible directly from Appian Cloud due to firewall restrictions and lack of public exposure. Let's evaluate each option:
A . Expose the API as a SOAP-based web service:
Converting the REST API to SOAP isn't a practical recommendation. The customer has provided a REST endpoint, and Appian fully supports REST integrations via Connected Systems and Integration objects. Changing the API to SOAP adds unnecessary complexity, development effort, and risks for the customer, with no benefit to Appian's integration capabilities. Appian's documentation emphasizes using the API's native format (REST here), making this irrelevant.
B . Deploy the API/service into Appian Cloud:
Deploying the customer's API into Appian Cloud is infeasible. Appian Cloud is a managed PaaS environment, not designed to host customer applications or APIs. The API resides in the customer's self-managed environment, and moving it would require significant architectural changes, violating security and operational boundaries. Appian's integration strategy focuses on connecting to external systems, not hosting them, ruling this out.
C . Add Appian Cloud's IP address ranges to the customer network's allowed IP listing:
This approach involves whitelisting Appian Cloud's IP ranges (available in Appian documentation) in the customer's firewall to allow direct HTTP/HTTPS requests. However, Appian Cloud's IPs are dynamic and shared across tenants, making this unreliable for long-term integrations-changes in IP ranges could break connectivity. Appian's best practices discourage relying on IP whitelisting for cloud-to-on-premises integrations due to this limitation, favoring secure tunnels instead.
D . Set up a VPN tunnel:
This is the correct recommendation. A Virtual Private Network (VPN) tunnel establishes a secure, encrypted connection between Appian Cloud and the customer's self-managed network, allowing Appian to access the internal REST API (https://internal.network/api/api/ping). Appian supports VPNs for cloud-to-on-premises integrations, and this approach ensures reliability, security, and compliance with network policies. The customer's IT team can configure the VPN, and Appian's documentation recommends this for such scenarios, especially when dealing with internal endpoints.
Conclusion: Setting up a VPN tunnel (D) is the best recommendation. It enables secure, reliable connectivity from Appian Cloud to the customer's internal API, aligning with Appian's integration best practices for cloud-to-on-premises scenarios.
Appian Documentation: "Integrating Appian Cloud with On-Premises Systems" (VPN and Network Configuration).
Appian Lead Developer Certification: Integration Module (Cloud-to-On-Premises Connectivity).
Appian Best Practices: "Securing Integrations with Legacy Systems" (VPN Recommendations).

NEW QUESTION # 24
You are on a protect with an application that has been deployed to Production and is live with users. The client wishes to increase the number of active users.
You need to conduct load testing to ensure Production can handle the increased usage Review the specs for four environments in the following image.

Cloud Environment	Server Name	Purpose	Disk (GB)	Memory (GB)	vCPUs
acmedev.appiancloud.com	acmedev	Non-production	30	16	2
acmetest.appiancloud.com	acmetest	Non-production	75		
acmeuat.appiancloud.com	acmeuat	Non-production	75	64	8
acme.appiancloud.com	acme	Production	75	32	4

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Which environment should you use for load testing7

- A. acmetest
- B. acmedev
- C. acmeuat
- D. acme

Answer: C

Explanation:
The image provides the specifications for four environments in the Appian Cloud:
acmedev.appiancloud.com (acmedev): Non-production, Disk: 30 GB, Memory: 16 GB, vCPUs: 2 acmetest.appiancloud.com (acmetest): Non-production, Disk: 75 GB, Memory: 32 GB, vCPUs: 4 acmeuat.appiancloud.com (acmeuat): Non-production, Disk: 75 GB, Memory: 64 GB, vCPUs: 8 acme.appiancloud.com (acme): Production, Disk: 75 GB, Memory: 32 GB, vCPUs: 4
Load testing assesses an application's performance under increased user load to ensure scalability and stability. Appian's Performance Testing Guidelines emphasize using an environment that mirrors Production as closely as possible to obtain accurate results, while avoiding direct impact on live systems.
Option A (acmeuat):This is the best choice. The UAT (User Acceptance Testing) environment (acmeuat) has the highest resources (64 GB memory, 8 vCPUs) among the non-production environments, closely aligning with Production's capabilities (32 GB memory, 4 vCPUs) but with greater capacity to handle simulated loads. UAT environments are designed to validate the application with real-world usage scenarios, making them ideal for load testing. The higher resources also allow testing beyond current Production limits to predict future scalability, meeting the client's goal of increasing active users without risking live data.
Option B (acmedev):The development environment (acmedev) has the lowest resources (16 GB memory, 2 vCPUs), which is insufficient for load testing. It's optimized for development, not performance simulation, and results would not reflect Production behavior accurately.
Option C (acme):The Production environment (acme) is live with users, and load testing here would disrupt service, violate Appian's Production Safety Guidelines, and risk data integrity. It should never be used for testing.
Option D (acmetest):The test environment (acmetest) has moderate resources (32 GB memory, 4 vCPUs), matching Production's memory and vCPUs. However, it's typically used for SIT (System Integration Testing) and has less capacity than acmeuat. While viable, it's less ideal than acmeuat for simulating higher user loads due to its resource constraints.
Appian recommends using a UAT environment for load testing when it closely mirrors Production and can handle simulated traffic, making acmeuat the optimal choice given its superior resources and non-production status.

NEW QUESTION # 25
You are reviewing the Engine Performance Logs in Production for a single application that has been live for six months. This application experiences concurrent user activity and has a fairly sustained load during business hours. The client has reported performance issues with the application during business hours.During your investigation, you notice a high Work Queue - Java Work Queue Size value in the logs. You also notice unattended process activities, including timer events and sending notification emails, are taking far longer to execute than normal.The client increased the number of CPU cores prior to the application going live.What is the next recommendation?

- A. Add more engine replicas.
- B. Add execution and analytics shards
- C. Optimize slow-performing user interfaces.
- D. Add more application servers.

Answer: A

Explanation:
As an Appian Lead Developer, analyzing Engine Performance Logs to address performance issues in a Production application requires understanding Appian's architecture and the specific metrics described. The scenario indicates a high "Work Queue - Java

Work Queue Size," which reflects a backlog of tasks in the Java Work Queue (managed by Appian engines), and delays in unattended process activities (e.g., timer events, email notifications). These symptoms suggest the Appian engines are overloaded, despite the client increasing CPU cores. Let's evaluate each option:
A . Add more engine replicas:This is the correct recommendation. In Appian, engine replicas (part of the Appian Engine cluster) handle process execution, including unattended tasks like timers and notifications. A high Java Work Queue Size indicates the engines are overwhelmed by concurrent activity during business hours, causing delays. Adding more engine replicas distributes the workload, reducing queue size and improving performance for both user-driven and unattended tasks. Appian's documentation recommends scaling engine replicas to handle sustained loads, especially in Production with high concurrency. Since CPU cores were already increased (likely on application servers), the bottleneck is likely the engine capacity, not the servers.
B . Optimize slow-performing user interfaces:While optimizing user interfaces (e.g., SAIL forms, reports) can improve user experience, the scenario highlights delays in unattended activities (timers, emails), not UI performance. The Java Work Queue Size issue points to engine-level processing, not UI rendering, so this doesn't address the root cause. Appian's performance tuning guidelines prioritize engine scaling for queue-related issues, making this a secondary concern.
C . Add more application servers:Application servers handle web traffic (e.g., SAIL interfaces, API calls), not process execution or unattended tasks managed by engines. Increasing application servers would help with UI concurrency but wouldn't reduce the Java Work Queue Size or speed up timer/email processing, as these are engine responsibilities. Since the client already increased CPU cores (likely on application servers), this is redundant and unrelated to the issue.
D . Add execution and analytics shards:Execution shards (for process data) and analytics shards (for reporting) are part of Appian's data fabric for scalability, but they don't directly address engine workload or Java Work Queue Size. Shards optimize data storage and query performance, not real-time process execution. The logs indicate an engine bottleneck, not a data storage issue, so this isn't relevant. Appian's documentation confirms shards are for long-term scaling, not immediate performance fixes.
Conclusion: Adding more engine replicas (A) is the next recommendation. It directly resolves the high Java Work Queue Size and delays in unattended tasks, aligning with Appian's architecture for handling concurrent loads in Production. This requires collaboration with system administrators to configure additional replicas in the Appian cluster.
Appian Documentation: "Engine Performance Monitoring" (Java Work Queue and Scaling Replicas).
Appian Lead Developer Certification: Performance Optimization Module (Engine Scaling Strategies).
Appian Best Practices: "Managing Production Performance" (Work Queue Analysis).

NEW QUESTION # 26
You are planning a strategy around data volume testing for an Appian application that queries and writes to a MySQL database. You have administrator access to the Appian application and to the database. What are two key considerations when designing a data volume testing strategy?

- A. Data from previous tests needs to remain in the testing environment prior to loading prepopulated data.
- B. Testing with the correct amount of data should be in the definition of done as part of each sprint.
- C. The amount of data that needs to be populated should be determined by the project sponsor and the stakeholders based on their estimation.
- D. Large datasets must be loaded via Appian processes.
- E. Data model changes must wait until towards the end of the project.

Answer: B,C

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Data volume testing ensures an Appian application performs efficiently under realistic data loads, especially when interacting with external databases like MySQL. As an Appian Lead Developer with administrative access, the focus is on scalability, performance, and iterative validation. The two key considerations are:
Option C (The amount of data that needs to be populated should be determined by the project sponsor and the stakeholders based on their estimation):
Determining the appropriate data volume is critical to simulate real-world usage. Appian's Performance Testing Best Practices recommend collaborating with stakeholders (e.g., project sponsors, business analysts) to define expected data sizes based on production scenarios. This ensures the test reflects actual requirements-like peak transaction volumes or record counts-rather than arbitrary guesses. For example, if the application will handle 1 million records in production, stakeholders must specify this to guide test data preparation.
Option D (Testing with the correct amount of data should be in the definition of done as part of each sprint):
Appian's Agile Development Guide emphasizes incorporating performance testing (including data volume) into the Definition of Done (DoD) for each sprint. This ensures that features are validated under realistic conditions iteratively, preventing late-stage performance issues. With admin access, you can query/write to MySQL and assess query performance or write latency with the specified data volume, aligning with Appian's recommendation to "test early and often." Option A (Data from previous tests needs to remain in the testing environment prior to loading prepopulated data): This is impractical and risky. Retaining old test data can skew results,

introduce inconsistencies, or violate data integrity (e.g., duplicate keys in MySQL). Best practices advocate for a clean, controlled environment with fresh, prepopulated data per test cycle.
Option B (Large datasets must be loaded via Appian processes): While Appian processes can load data, this is not a requirement. With database admin access, you can use SQL scripts or tools like MySQL Workbench for faster, more efficient data population, bypassing Appian process overhead. Appian documentation notes this as a preferred method for large datasets.
Option E (Data model changes must wait until towards the end of the project): Delaying data model changes contradicts Agile principles and Appian's iterative design approach. Changes should occur as needed throughout development to adapt to testing insights, not be deferred.

NEW QUESTION # 27
You are the project lead for an Appian project with a supportive product owner and complex business requirements involving a customer management system. Each week, you notice the product owner becoming more irritated and not devoting as much time to the project, resulting in tickets becoming delayed due to a lack of involvement. Which two types of meetings should you schedule to address this issue?

- A. A sprint retrospective with the product owner and development team to discuss team performance.
- B. An additional daily stand-up meeting to ensure you have more of the product owner's time.
- C. A meeting with the sponsor to discuss the product owner's performance and request a replacement.
- D. A risk management meeting with your program manager to escalate the delayed tickets.

Answer: A,D

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, managing stakeholder engagement and ensuring smooth project progress are critical responsibilities. The scenario describes a product owner whose decreasing involvement is causing delays, which requires a proactive and collaborative approach rather than an immediate escalation to replacement. Let's analyze each option:
A . An additional daily stand-up meeting: While daily stand-ups are a core Agile practice to align the team, adding another one specifically to secure the product owner's time is inefficient. Appian's Agile methodology (aligned with Scrum) emphasizes that stand-ups are for the development team to coordinate, not to force stakeholder availability. The product owner's irritation might increase with additional meetings, making this less effective.
B . A risk management meeting with your program manager: This is a correct choice. Appian Lead Developer documentation highlights the importance of risk management in complex projects (e.g., customer management systems). Delays due to lack of product owner involvement constitute a project risk. Escalating this to the program manager ensures visibility and allows for strategic mitigation, such as resource reallocation or additional support, without directly confronting the product owner in a way that could damage the relationship. This aligns with Appian's project governance best practices.
C . A sprint retrospective with the product owner and development team: This is also a correct choice. The sprint retrospective, as per Appian's Agile guidelines, is a key ceremony to reflect on what's working and what isn't. Including the product owner fosters collaboration and provides a safe space to address their reduced involvement and its impact on ticket delays. It encourages team accountability and aligns with Appian's focus on continuous improvement in Agile development.
D . A meeting with the sponsor to discuss the product owner's performance and request a replacement: This is premature and not recommended as a first step. Appian's Lead Developer training emphasizes maintaining strong stakeholder relationships and resolving issues collaboratively before escalating to drastic measures like replacement. This option risks alienating the product owner and disrupting the project further, which contradicts Appian's stakeholder management principles.
Conclusion: The best approach combines B (risk management meeting) to address the immediate risk of delays with a higher-level escalation and C (sprint retrospective) to collaboratively resolve the product owner's engagement issues. These align with Appian's Agile and leadership strategies for Lead Developers.
Appian Lead Developer Certification: Agile Project Management Module (Risk Management and Stakeholder Engagement).
Appian Documentation: "Best Practices for Agile Development in Appian" (Sprint Retrospectives and Team Collaboration).

NEW QUESTION # 28
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