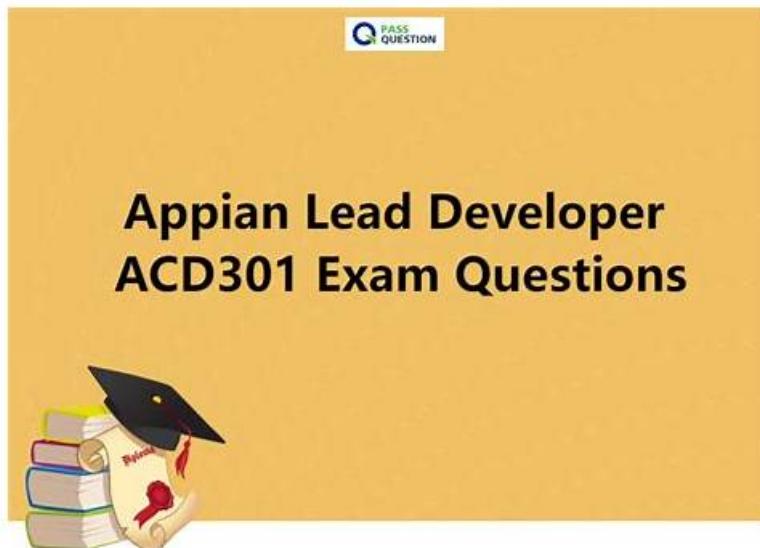


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### Appian Lead Developer Sample Questions (Q13-Q18):

#### NEW QUESTION # 13

You are required to configure a connection so that Jira can inform Appian when specific tickets change (using a webhook). Which three required steps will allow you to connect both systems?

- A. Configure the connection in Jira specifying the URL and credentials.
- B. Create an integration object from Appian to Jira to periodically check the ticket status.
- C. Create a new API Key and associate a service account.
- D. Create a Web API object and set up the correct security.
- E. Give the service account system administrator privileges.

**Answer: A,C,D**

#### NEW QUESTION # 14

You are on a project 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        | 32          | 4     |
| acmeuat.appiancloud.com  | acmeuat     | Non-production | 75        | 64          | 8     |
| acme.appiancloud.com     | acme        | Production     | 75        | 32          | 4     |

Which environment should you use for load testing?

- A. acmedev
- B. acmetest
- 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.

References: Appian Documentation - Performance Testing Guidelines, Appian Cloud Environment Management, Appian Lead Developer Training - Load Testing Strategies.

#### NEW QUESTION # 15

You are taking your package from the source environment and importing it into the target environment.

Review the errors encountered during inspection:

What is the first action you should take to investigate the issue?

- A. Check whether the object (UUID ending in 7t00000i4e7a) is included in this package
- B. Check whether the object (UUID ending in 25606) is included in this package

- C. Check whether the object (UUID ending in 18028931) is included in this package
- D. Check whether the object (UUID ending in 18028821) is included in this package

**Answer: A**

Explanation:

The error log provided indicates issues during the package import into the target environment, with multiple objects failing to import due to missing precedents. The key error messages highlight specific UUIDs associated with objects that cannot be resolved. The first error listed states:

\* '"TEST\_ENTITY\_PROFILE MERGE HISTORY': The content [id=uuid-a-0000m5fc-f0e6-8000-9b01-011c48011c48, 18028821] was not imported because a required precedent is missing: entity [uuid=a-0000m5fc-f0e6-8000-9b01-011c48011c48, 18028821] cannot be found..." According to Appian's Package Deployment Best Practices, when importing a package, the first step in troubleshooting is to identify the root cause of the failure. The initial error in the log points to an entity object with a UUID ending in 18028821, which failed to import due to a missing precedent. This suggests that the object itself or one of its dependencies (e.g., a data store or related entity) is either missing from the package or not present in the target environment.

\* Option A (Check whether the object (UUID ending in 18028821) is included in this package): This is the correct first action. Since the first error references this UUID, verifying its inclusion in the package is the logical starting point. If it's missing, the package export from the source environment was incomplete. If it's included but still fails, the precedent issue (e.g., a missing data store) needs further investigation.

\* Option B (Check whether the object (UUID ending in 7t00000i4e7a) is included in this package):

This appears to be a typo or corrupted UUID (likely intended as something like "7t000014e7a" or similar), and it's not referenced in the primary error. It's mentioned later in the log but is not the first issue to address.

\* Option C (Check whether the object (UUID ending in 25606) is included in this package): This UUID is associated with a data store error later in the log, but it's not the first reported issue.

\* Option D (Check whether the object (UUID ending in 18028931) is included in this package): This UUID is mentioned in a subsequent error related to a process model or expression rule, but it's not the initial failure point.

Appian recommends addressing errors in the order they appear in the log to systematically resolve dependencies. Thus, starting with the object ending in 18028821 is the priority.

References: Appian Documentation - Package Deployment and Troubleshooting, Appian Lead Developer Training - Error Handling and Import/Export.

## NEW QUESTION # 16

The business database for a large, complex Appian application is to undergo a migration between database technologies, as well as interface and process changes. The project manager asks you to recommend a test strategy. Given the changes, which two items should be included in the test strategy?

- A. A regression test of all existing system functionality
- B. Internationalization testing of the Appian platform
- C. Penetration testing of the Appian platform
- D. Tests for each of the interfaces and process changes
- E. Tests that ensure users can still successfully log into the platform

**Answer: A,D**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, recommending a test strategy for a large, complex application undergoing a database migration (e.g., from Oracle to PostgreSQL) and interface/process changes requires focusing on ensuring system stability, functionality, and the specific updates. The strategy must address risks tied to the scope-database technology shift, interface modifications, and process updates-while aligning with Appian's testing best practices. Let's evaluate each option:

A . Internationalization testing of the Appian platform

Internationalization testing verifies that the application supports multiple languages, locales, and formats (e.g., date formats). While valuable for global applications, the scenario doesn't indicate a change in localization requirements tied to the database migration, interfaces, or processes. Appian's platform handles internationalization natively (e.g., via locale settings), and this isn't impacted by database technology or UI/process changes unless explicitly stated. This is out of scope for the given context and not a priority.

B . A regression test of all existing system functionality:

This is a critical inclusion. A database migration between technologies can affect data integrity, queries (e.g., a!queryEntity), and performance due to differences in SQL dialects, indexing, or drivers. Regression testing ensures that all existing functionality-records, reports, processes, and integrations-works as expected post-migration. Appian Lead Developer documentation mandates

regression testing for significant infrastructure changes like this, as unmapped edge cases (e.g., datatype mismatches) could break the application. Given the "large, complex" nature, full-system validation is essential to catch unintended impacts.

C . Penetration testing of the Appian platform:

Penetration testing assesses security vulnerabilities (e.g., injection attacks). While security is important, the changes described-database migration, interface, and process updates-don't inherently alter Appian's security model (e.g., authentication, encryption), which is managed at the platform level. Appian's cloud or on-premise security isn't directly tied to database technology unless new vulnerabilities are introduced (not indicated here). This is a periodic concern, not specific to this migration, making it less relevant than functional validation.

D . Tests for each of the interfaces and process changes:

This is also essential. The project includes explicit "interface and process changes" alongside the migration. Interface updates (e.g., SAIL forms) might rely on new data structures or queries, while process changes (e.g., modified process models) could involve updated nodes or logic. Testing each change ensures these components function correctly with the new database and meet business requirements. Appian's testing guidelines emphasize targeted validation of modified components to confirm they integrate with the migrated data layer, making this a primary focus of the strategy.

E . Tests that ensure users can still successfully log into the platform:

Login testing verifies authentication (e.g., SSO, LDAP), typically managed by Appian's security layer, not the business database. A database migration affects application data, not user authentication, unless the database stores user credentials (uncommon in Appian, which uses separate identity management). While a quick sanity check, it's narrow and subsumed by broader regression testing (B), making it redundant as a standalone item.

Conclusion: The two key items are B (regression test of all existing system functionality) and D (tests for each of the interfaces and process changes). Regression testing (B) ensures the database migration doesn't disrupt the entire application, while targeted testing (D) validates the specific interface and process updates. Together, they cover the full scope-existing stability and new functionality-aligning with Appian's recommended approach for complex migrations and modifications.

Reference:

Appian Documentation: "Testing Best Practices" (Regression and Component Testing).

Appian Lead Developer Certification: Application Maintenance Module (Database Migration Strategies).

Appian Best Practices: "Managing Large-Scale Changes in Appian" (Test Planning).

## NEW QUESTION # 17

You are the lead developer for an Appian project, in a backlog refinement meeting. You are presented with the following user story: "As a restaurant customer, I need to be able to place my food order online to avoid waiting in line for takeout." Which two functional acceptance criteria would you consider 'good'?

- A. The system must handle up to 500 unique orders per day.
- B. The user will receive an email notification when their order is completed.
- C. The user cannot submit the form without filling out all required fields.
- D. The user will click Save, and the order information will be saved in the ORDER table and have audit history.

**Answer: C,D**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, defining "good" functional acceptance criteria for a user story requires ensuring they are specific, testable, and directly tied to the user's need (placing an online food order to avoid waiting in line). Good criteria focus on functionality, usability, and reliability, aligning with Appian's Agile and design best practices. Let's evaluate each option:

A . The user will click Save, and the order information will be saved in the ORDER table and have audit history:

This is a "good" criterion. It directly validates the core functionality of the user story-placing an order online. Saving order data in the ORDER table (likely via a process model or Data Store Entity) ensures persistence, and audit history (e.g., using Appian's audit logs or database triggers) tracks changes, supporting traceability and compliance. This is specific, testable (e.g., verify data in the table and logs), and essential for the user's goal, aligning with Appian's data management and user experience guidelines.

B . The user will receive an email notification when their order is completed:

While useful, this is a "nice-to-have" enhancement, not a core requirement of the user story. The story focuses on placing an order online to avoid waiting, not on completion notifications. Email notifications add value but aren't essential for validating the primary functionality. Appian's user story best practices prioritize criteria tied to the main user need, making this secondary and not "good" in this context.

C . The system must handle up to 500 unique orders per day:

This is a non-functional requirement (performance/scalability), not a functional acceptance criterion. It describes system capacity, not specific user behavior or functionality. While important for design, it's not directly testable for the user story's outcome (placing an order) and isn't tied to the user's experience. Appian's Agile methodologies separate functional and non-functional requirements, making this less relevant as a "good" criterion here.

D . The user cannot submit the form without filling out all required fields:

This is a "good" criterion. It ensures data integrity and usability by preventing incomplete orders, directly supporting the user's ability to place a valid online order. In Appian, this can be implemented using form validation (e.g., required attributes in SAIL interfaces or process model validations), making it specific, testable (e.g., verify form submission fails with missing fields), and critical for a reliable user experience. This aligns with Appian's UI design and user story validation standards.

Conclusion: The two "good" functional acceptance criteria are A (order saved with audit history) and D (required fields enforced). These directly validate the user story's functionality (placing a valid order online), are testable, and ensure a reliable, user-friendly experience-aligning with Appian's Agile and design best practices for user stories.

Reference:

Appian Documentation: "Writing Effective User Stories and Acceptance Criteria" (Functional Requirements).

Appian Lead Developer Certification: Agile Development Module (Acceptance Criteria Best Practices).

Appian Best Practices: "Designing User Interfaces in Appian" (Form Validation and Data Persistence).

## NEW QUESTION # 18

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