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**Blue-Prism**

# ASDEV01

*Blue Prism Associate Developer - 202*

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## Question: 552

A developer configures a Blue Prism environment to use a new encryption scheme for credentials stored in the Credential Store. The scheme uses a 256-bit key stored on the application server. Which actions must be performed to ensure the credentials are securely accessible by processes?

- A. Apply custom security to the encryption key file to restrict access to the Blue Prism server service account
- B. Configure all clients to connect via the application server using secure connections
- C. Set the credential's access restrictions to validate the process name in the "Get Credential" action
- D. Update the Blue Prism database to use the new encryption scheme
- E. Use the "Set Encryption Key" action in the process to dynamically load the key

Answer: A,B

Explanation: To secure credentials, custom security must be applied to the encryption key file to restrict access to the Blue Prism server service account, preventing unauthorized access. All clients must connect via the application server using secure connections to ensure encrypted communication. Validating the process name is a legacy method and not recommended. The Blue Prism database does not need to be updated to use the encryption scheme, as the scheme is managed by the application server. There is no "Set Encryption Key" action in Blue Prism; the key is managed by the server configuration.

## Question: 553

A process handles exceptions in a Block stage containing a web service call that may fail due to connectivity issues. Which configurations ensure up to 4 retries before logging the failure?

- A. Configure a Recover stage to catch "System Exception" within the Block
- B. Use a Data Item [RetryAttempts] initialized to 0, incremented per retry
- C. Set a Decision stage to check [RetryAttempts]  $\leq 4$  before retrying
- D. Place the Recover stage outside the Block to catch all exceptions
- E. Log the failure using a Note stage after 4 retries

Answer: A,B,C,E

Explanation: The Recover stage inside the Block catches "System Exception" from the web service call. [RetryAttempts] tracks retries, and a Decision stage checks [RetryAttempts]  $\leq 4$  to control the loop. After 4 retries, a Note stage logs the failure. Placing the Recover stage outside the Block would not catch Block-specific exceptions.

## Question: 554

A session processes a queue with items requiring external API calls. Failed items must be retried after 15 minutes, and failures must be logged. Which configurations achieve this?

- A. Configure the queue with a "Retry Delay" of 900 seconds

- B. Use an Exception stage with the "Preserve Exception" option enabled
- C. Log failures to the BPAWorkQueueItem table using a SQL UPDATE statement
- D. Set the queue item status to "Deferred" with a defer time of GETUTCDATE() + 15/1440
- E. Enable "API Failure Alerts" in the queue settings

Answer: A,B,C,D

Explanation: A "Retry Delay" of 900 seconds (15 minutes) ensures failed items are retried after the interval. Enabling "Preserve Exception" retains exception details for debugging. Logging to the BPAWorkQueueItem table via a SQL UPDATE statement records failures. Setting the item to "Deferred" with GETUTCDATE() + 15/1440 (15 minutes) delays processing. "API Failure Alerts" is not a standard queue setting; alerts are configured via custom processes.

### Question: 555

A Process Studio process handles ticket reservations with a Collection containing "TicketID" (Text), "Price" (Number), and "Status" (Text). A Loop stage updates "Status" to "Confirmed" if Price < 100, else "Pending". The process logs the number of confirmed tickets in a Data Item "ConfirmedCount". Which configurations are correct?

- A. Use a Decision stage with expression [Price] < 100 to set [Status] = "Confirmed"
- B. Configure a Calculation stage to increment [ConfirmedCount] when [Status] = "Confirmed"
- C. Set a Collection stage to update the "Status" field
- D. Use a Loop stage to iterate through the Collection
- E. Add a Note stage to log [ConfirmedCount] after processing

Answer: A,C,D,E

Explanation: A Decision stage with [Price] < 100 sets the "Status" to "Confirmed". A Collection stage updates the "Status" field. A Loop stage iterates through the Collection. A Note stage logs the final [ConfirmedCount]. Incrementing [ConfirmedCount] when [Status] = "Confirmed" is incorrect, as the status is set during processing.

### Question: 556

An Environment Variable stores a retry count for a process, which must be incremented after each failure. How can the process update this variable?

- A. Use the "Set Environment Variable" action with the input: RetryCount = [RetryCount] + 1
- B. Update the variable in the Control Room using a SQL query: UPDATE BPAEnvironmentVariable SET Value = Value + 1 WHERE Name = 'RetryCount'
- C. Access the variable using the syntax: [RetryCount] and increment in a Calculation stage
- D. Set the variable exposure to "Session" to allow in-process updates
- E. Use the command: /updateenv RetryCount = [RetryCount] + 1

Answer: A,B,C

Explanation: The "Set Environment Variable" action updates RetryCount programmatically by setting it to [RetryCount] + 1. A SQL query like UPDATE BPAEnvironmentVariable SET Value = Value + 1 updates the variable in the database. Accessing [RetryCount] and incrementing it in a Calculation stage allows in-process updates. Setting exposure to "Session" is incorrect, as Environment Variables use "Environment" exposure for shared access. The /updateenv command is invalid; updates are done via actions or SQL.

### Question: 557

You are tasked with publishing a Business Object action that interacts with a browser-based application. The action navigates to a specific page and enters data. Which best practices ensure the action is reusable?

- A. Use input parameters for page URL and data values
- B. Include an "Attach" stage to ensure the browser is active
- C. Set the action's "Timeout" to 10 seconds for all stages
- D. Configure output parameters to return success/failure status
- E. Hardcode the browser path in the Application Modeller

Answer: A,B,D

Explanation: Input parameters allow flexibility for URLs and data. An "Attach" stage ensures the browser is active, improving reliability. Output parameters provide feedback on execution status. A fixed timeout is not a best practice, as it may vary, and hardcoding the browser path reduces reusability.

### Question: 558

In a Blue Prism process, you are implementing error management for a web scraping step using a business object "WebScraper." The process retries up to 4 times with a 15-second delay and logs each attempt to a collection "ScrapeLog" with fields "Attempt" (Number), "Error" (Text), and "Time" (DateTime). Which configurations ensure robust error handling?

- A. Use a loop stage with the condition [AttemptCount] <= 4, incrementing [AttemptCount] by 1
- B. Add a wait stage with a timeout of 15 seconds before each retry
- C. Use the "Add Row" action to log attempts to "ScrapeLog" with [AttemptCount], ExceptionDetail(), and Now()
- D. Place the "WebScraper" call in a block with a recover stage that resumes at the wait stage
- E. Terminate the process after the first scrape failure to simplify error handling

Answer: A,B,C,D

Explanation: Robust error handling requires a loop stage for 4 retries, a wait stage for a 15-second delay, and logging to the "ScrapeLog" collection using the "Add Row" action. A recover stage within a block

resumes at the wait stage. Terminating after the first failure bypasses the retry requirement.

### Question: 559

You import the "OCR - Invoice Processing" skill to extract data from invoices. The skill requires parameters: ImagePath and OutputCollection. Which steps ensure correct integration?

- A. Set ImagePath to the file location, e.g., "C:\Invoices\invoice.pdf"
- B. Import the skill from the Blue Prism Digital Exchange
- C. Map OutputCollection to a collection Data Item [InvoiceData]
- D. Modify the skill's code to support additional image formats
- E. Configure the skill in the Object Studio's System tab

Answer: A,B,C

Explanation: Importing the skill from the Digital Exchange enables its use. Setting ImagePath to the invoice file location and mapping OutputCollection to [InvoiceData] configures the skill correctly. Modifying the skill's code is unsupported, and configuration is done in the process, not Object Studio's System tab.

### Question: 560

To reduce errors in a process with frequent database timeouts, which tests should be conducted?

- A. Simulate high database load during testing
- B. Test with varied connection string parameters
- C. Validate timeout settings in the database VBO
- D. Run a single test case in Control Room
- E. Mock database responses for unit testing

Answer: A,B,C,E

Explanation: Simulating high database load tests the process under stress, revealing timeout causes. Testing with varied connection string parameters ensures robustness across configurations. Validating timeout settings in the VBO confirms they're sufficient for typical queries. Mocking database responses enables unit testing of the process logic without relying on the database. Running a single test case in Control Room is too limited to address complex timeout issues.

### Question: 561

A resource pool "Pool\_Finance" contains six Runtime Resources, and a process "Tax\_Calculation" is configured to run with a maximum of four concurrent sessions. A stop request is issued for one session due to a critical error. Which actions ensure the session terminates correctly and logs the stop event?

- A. Issue the stop request from the Control Room's Session Management
- B. Set the process to log stop requests in the session log

- C. Verify the session status changes to "Stopped" in the Control Room
- D. Configure the process to ignore stop requests during critical operations
- E. Check the session log for the stop request event and termination details

Answer: A,B,C,E

Explanation: To terminate a session correctly, issue the stop request from the Control Room's Session Management. Configure the process to log stop requests, ensuring the event is recorded in the session log. Verify the session status changes to "Stopped" in the Control Room to confirm termination. Check the session log for the stop request event and termination details to ensure proper logging. Configuring the process to ignore stop requests is not advisable, as it prevents graceful termination during critical errors.

### Question: 562

A process logs sensitive customer data at a Write stage, causing compliance ~~to~~ mutually exclusive with stage logging enabled. Which logging adjustments ensure compliance with data protection regulations?

- A. Disable logging for the Write stage
- B. Mask sensitive data in logs using a custom format
- C. Set logging to Error only for all stages
- D. Use environment variables to store sensitive data
- E. Log data to an encrypted external file

Answer: A,B

Explanation: Disabling logging for the Write stage prevents sensitive customer data from being recorded, ensuring compliance with data protection regulations. Masking sensitive data in logs (e.g., replacing digits with asterisks) protects privacy while retaining log utility. Setting logging to Error only is too restrictive, as it may miss critical non-error logs needed for debugging. Using environment variables doesn't prevent logging of sensitive data, as logs capture runtime values. Logging to an encrypted external file introduces complexity and risk, as logs must still comply with data protection rules.

### Question: 563

A session log for a process "Data\_Validation" shows a Business Exception in a Calculation stage due to a null value. Which actions can resolve this issue?

- A. Add a Decision stage to check for null values before the Calculation stage
- B. Review the session log to identify the null value causing the exception
- C. Log the input data before the Calculation stage for debugging
- D. Increase the session timeout to allow more processing time
- E. Update the Calculation stage to use a default value for null inputs

Answer: A,B,C,E

Explanation: To resolve the Business Exception, add a Decision stage to check for null values before the Calculation stage. Review the session log to identify the null value causing the issue. Log the input data before the Calculation stage to aid debugging. Update the Calculation stage to use a default value for null inputs to prevent the exception. Increasing the session timeout does not address the null value issue.

### Question: 564

You are reading a table cell's value from a web application using a Read Stage in HTML Mode. The cell's XPath is “//table[@id='dataTable']/tr[2]/td[3]”. Which Read Stage configurations retrieve the cell's text?

- A. Set Read Type to “Get Text” and XPath to “//table[@id='dataTable']/tr[2]/td[3]”
- B. Set Read Type to “Get Attribute” and Attribute Name to “innerText”
- C. Enable “Wait for Element” with a 10-second timeout
- D. Use a Dynamic Match for the XPath
- E. Check “Element Exists” before reading

Answer: A,B,C,E

Explanation: Setting Read Type to “Get Text” with the specified XPath retrieves the cell's text directly. Using “Get Attribute” with “innerText” is an alternative method to get the text. Enabling “Wait for Element” ensures the cell is available, and checking “Element Exists” prevents exceptions if the cell is missing. Dynamic Match is unnecessary since the XPath is static.

### Question: 565

A process uses a Loop stage to iterate over a Collection with 10 rows. Inside the Loop, a Calculation stage sets a Data Item Sum with the expression Sum + [Collection.Value], where Sum is initialized to 0. If one row has a non-numeric value (e.g., "abc") in the Value field, what happens during execution?

- A. The process throws an exception
- B. The Loop skips the non-numeric row
- C. The Sum remains unchanged for the non-numeric row
- D. The process terminates
- E. The Collection is corrupted

Answer: A

Explanation: The Calculation stage attempts to add [Collection.Value] to Sum, which expects numeric values. When it encounters a non-numeric value ("abc"), Blue Prism throws a type mismatch exception, as it cannot perform arithmetic on a string. The Loop does not skip the row, Sum is not updated (due to the exception), the process does not necessarily terminate (unless the exception is unhandled), and the Collection is not corrupted (it remains unchanged).

### Question: 566

A Blue Prism process is deployed to a Runtime Resource with a Start-Up Parameter --priority 2. The Control Room schedules the process with a priority of 1. During execution, a Work Queue item is processed with a priority of 3. Which priority is used for the process execution?

- A. 1
- B. 2
- C. 3
- D. The highest priority
- E. The lowest priority

Answer: B

Explanation: In Blue Prism, the Start-Up Parameter --priority set on the Runtime Resource overrides other priority settings, including the Control Room schedule priority and Work Queue item priority. Thus, the process runs with priority 2, as specified by the --priority 2 parameter.

### Question: 567

You need to configure a process "Order\_Entry" to run on a resource pool with five Runtime Resources, with sessions logged at the "Error Only" level. A stop request is issued if a session exceeds 30 minutes. Which settings ensure proper session management and logging?

- A. Configure the process to log at the "Error Only" level in Process Studio
- B. Set a session timeout of 1800 seconds in the Scheduler task
- C. Issue stop requests via the Control Room for sessions exceeding 30 minutes
- D. Enable audit logging to track stop request actions
- E. Assign the process to a single Runtime Resource instead of a pool

Answer: A,B,C,D

Explanation: To ensure proper session management and logging, configure the process to log at the "Error Only" level in Process Studio. Set a session timeout of 1800 seconds (30 minutes) in the Scheduler task to automatically stop overdue sessions. Issue stop requests via the Control Room for manual intervention if needed. Enable audit logging to track stop request actions for accountability. Assigning the process to a single Runtime Resource defeats the purpose of load balancing in a resource pool.

### Question: 568

A queue handles support queries with SLA of 15 minutes for Priority = 1 and 1 hour for Priority = 2. Items are added with Status = "Open" and updated to "Resolved" or "Escalated". Which steps are needed?

- A. Set SLA thresholds: Priority 1 = 900 seconds, Priority 2 = 3600 seconds
- B. Enable "SLA Notifications" for breaches
- C. Configure a Status field to track "Open", "Resolved", "Escalated"

D. Use "Update Status" to set "Resolved" or "Escalated"

E. Use "Add To Queue" with Status = "Open"

Answer: A,C,D,E

Explanation: SLA thresholds of 900 seconds (15 minutes) for Priority 1 and 3600 seconds (1 hour) for Priority 2 are set. The "Add To Queue" action sets Status = "Open". A Status field tracks the required states. The "Update Status" action sets "Resolved" or "Escalated". "SLA Notifications" is not a standard feature, as SLA monitoring uses reports.

### Question: 569

A Decision Stage in a process evaluates whether a customer order qualifies for express shipping based on multiple criteria: order total > 500, item count > 5, and customer is a "Premium" member. The data items are "OrderTotal" (Number), "ItemCount" (Number), and "Membership" (Text). Which expressions in the Decision Stage correctly implement this logic?

A. [OrderTotal] > 500 And [ItemCount] > 5 And [Membership] = "Premium"

B. If([OrderTotal] > 500, [ItemCount] > 5 And [Membership] = "Premium", False)

C. [OrderTotal] > 500 Or [ItemCount] > 5 And [Membership] = "Premium"

D. [OrderTotal] > 500 And [ItemCount] > 5 And InStr([Membership], "Premium") > 0

E. [OrderTotal] > 500 And [ItemCount] > 5 And Upper([Membership]) = "PREMIUM"

Answer: A,D,E

Explanation: The Decision Stage must evaluate all three conditions conjunctively. The first correct expression directly checks if OrderTotal > 500, ItemCount > 5, and Membership equals "Premium" using And operators. The second expression uses InStr to check if "Premium" is within the Membership string, which is valid if Membership contains "Premium" (e.g., "Premium Member"). The third correct expression converts Membership to uppercase and compares it to "PREMIUM", handling case variations. The expression in B is incorrect as it only evaluates the second and third conditions if OrderTotal > 500 is true, but returns False otherwise, missing cases. The expression in C uses Or incorrectly, allowing cases where only one condition is met.

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