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**IBM**

# C1000-005

*IBM DataPower Gateway V7.6 Solution Implementation*

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**Question: 526**

In a DataPower configuration, which of the following best describes a valid use case for using XSLT?

- A. To convert binary data into JSON format.
- B. To transform XML data into a different XML structure.
- C. To log API request details.
- D. To encrypt sensitive information.

Answer: B

Explanation: XSLT is specifically designed for transforming XML data, making it ideal for converting one XML structure into another.

**Question: 527**

In the context of threat protection, what role does regular security auditing play in maintaining the integrity of an API Gateway?

- A. It is irrelevant as long as the system is functioning correctly.
- B. Regular security auditing helps identify vulnerabilities and reinforces security measures.
- C. It complicates the system and should be avoided.
- D. It only needs to be performed once during the initial setup.

Answer: B

Explanation: Regular security auditing helps identify vulnerabilities and reinforces security measures, ensuring the ongoing integrity and security of the API Gateway.

**Question: 528**

In GatewayScript, how can you handle exceptions effectively when processing messages?

- A. Use conditional statements to check for errors
- B. Log errors without handling them
- C. Ignore all exceptions
- D. Use try-catch blocks to capture and handle errors

Answer: D

Explanation: Try-catch blocks are essential for capturing and handling exceptions in GatewayScript, allowing for graceful error management and logging.

**Question: 529**

When exporting configurations from a DataPower Gateway, which file format is most commonly used for backup purposes, and what is a critical factor to consider regarding compatibility?

- A. CSV; ensure delimiter compatibility
- B. JSON; ensure API compatibility
- C. YAML; ensure serialization compatibility
- D. XML; ensure schema compatibility

Answer: D

Explanation: The most commonly used file format for exporting configurations is XML, and ensuring schema compatibility is critical for successful restoration of the configurations.

**Question: 530**

In GatewayScript, which of the following methods would you use to manipulate an incoming XML payload and extract a specific node value named "OrderID"?

- A. `var orderId = msg.payload.OrderID;`
- B. `var orderId = msg.payload.get("OrderID");`
- C. `var orderId = msg.payload["OrderID"];`
- D. `var orderId = msg.payload[0].OrderID;`

Answer: C

Explanation: The correct way to access a specific node value in an XML payload using GatewayScript is with bracket notation, which accommodates any character in the node name.

**Question: 531**

What is the main purpose of the `xsl:sort` element in XSLT?

- A. To filter nodes
- B. To group nodes
- C. To order nodes in a sequence
- D. To remove duplicates

Answer: C

Explanation: The `<xsl:sort>` element is used to order nodes in a specified sequence based on defined sorting criteria during XSLT transformations.

**Question: 532**

In GatewayScript, if you need to send a response back to the client after processing, which of the following methods would you use?

- A. `msg.response = response;`
- B. `response.send(msg);`
- C. `msg.body = response;`
- D. `msg.response.send();`

Answer: D

Explanation: The correct method to send a response back to the client in GatewayScript is `msg.response.send();`, which finalizes the message processing and returns it.

### Question: 533

During the initial setup of the DataPower Gateway, what is the recommended method for configuring the management interface to ensure secure access, and what subnet mask is typically utilized for this purpose?

- A. Static IP with 255.255.255.255
- B. Dynamic IP with 255.255.0.0
- C. Static IP with 255.255.255.0
- D. Dynamic IP with 255.255.255.128

Answer: C

Explanation: Configuring a static IP with a subnet mask of 255.255.255.0 is recommended for the management interface, as it ensures secure and stable access to the DataPower Gateway.

### Question: 534

When creating a custom XSLT transformation in DataPower, which of the following best describes how to handle namespaces to ensure proper processing of XML documents that include multiple namespaces?

- A. Use prefix mapping within the transformation logic
- B. Declare each namespace at the top of the XSLT file
- C. Ignore namespaces to simplify processing
- D. Use the default namespace declaration only

Answer: A

Explanation: Using prefix mapping within the transformation logic allows for proper handling of multiple namespaces, ensuring that the XSLT processes elements correctly according to their defined namespaces.

### Question: 535

In the context of Processing Policies, suppose you need to apply different transformation rules based on the content type of incoming messages. What is the best approach to achieve this functionality?

- A. Create a single processing policy that includes all transformation rules in a sequential manner.
- B. Utilize conditional processing rules within the processing policy to apply transformations based on content types.
- C. Implement separate processing policies for each content type and route requests accordingly.
- D. Use static routing to direct all requests to a single transformation regardless of content type.

Answer: B

Explanation: Utilizing conditional processing rules within the processing policy allows for dynamic selection of transformation rules based on the content type, enabling more flexible and efficient message handling.

**Question: 536**

Which of the following methods can be used in DataPower to transform an incoming XML message into a different XML format?

- A. GatewayScript only
- B. JSON.stringify()
- C. XMLParser
- D. XSLT transformation

Answer: D

Explanation: XSLT transformation is specifically designed for converting XML messages into different XML formats.

**Question: 537**

In GatewayScript, how do you convert a JavaScript object to a JSON string?

- A. object.toJSONString();
- B. json.toString(object);
- C. JSON.stringify(object);
- D. JSON.objectStringify(object);

Answer: C

Explanation: JSON.stringify(object) is the correct method to convert a JavaScript object into a JSON string format.

**Question: 538**

In a DataPower environment, which of the following best describes the relationship between a policy and the messages it processes?

- A. A policy is a static configuration that does not change.
- B. A policy can only apply to messages of one specific type.
- C. A policy defines rules that dynamically adjust based on message content.
- D. A policy is unrelated to the processing of messages.

Answer: C

Explanation: A policy defines rules that can dynamically adjust based on the content and attributes of the messages being processed, allowing for flexible message handling.

**Question: 539**

Which of the following capabilities is essential for the DataPower Gateway to effectively handle SOA security and manage service access across different protocols?

- A. Service Level Agreements
- B. Static IP Allocation
- C. Load Balancing
- D. Policy Enforcement Points

Answer: D

Explanation: Policy Enforcement Points (PEPs) are crucial for managing service access in SOA security, allowing the DataPower Gateway to enforce security policies across different protocols effectively.

**Question: 540**

Which of the following is a critical step when integrating IBM DataPower with an external LDAP directory for authentication?

- A. Configuring the DataPower firmware
- B. Hardcoding the LDAP credentials in DataPower
- C. Disabling SSL for the LDAP connection
- D. Setting up network connectivity to the LDAP server

Answer: D

Explanation: Ensuring network connectivity to the LDAP server is essential for successful integration and authentication processes.

**Question: 541**

What is the maximum allowable size for a single XML message processed by a DataPower Gateway, and what configuration item should be adjusted to accommodate larger messages?

- A. 1 MB; increase message-size limit
- B. 50 MB; set message-size threshold
- C. 10 MB; modify transport settings
- D. 5 MB; adjust XML parser settings

Answer: D

Explanation: The maximum allowable size for a single XML message is typically 5 MB, and adjusting the XML parser settings is essential to accommodate larger messages if necessary.

**Question: 542**

In a DataPower service that utilizes custom Java extensions, which of the following is the best practice to ensure that the extension is resilient to errors and can handle unexpected input gracefully?

- A. Use System.exit() to stop the service on error
- B. Limit the input types to avoid errors
- C. Disable logging to improve performance
- D. Implement comprehensive exception handling mechanisms

Answer: D

Explanation: Implementing comprehensive exception handling mechanisms allows the Java extension to manage errors gracefully, ensuring that the service continues to function even when unexpected input is encountered.

**Question: 543**

When setting up SSL/TLS for secure communications in IBM DataPower, which cipher suite configuration would provide the strongest security posture for data transmission?

- A. TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA
- B. TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA
- C. TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384
- D. TLS\_RSA\_WITH\_RC4\_128\_MD5

Answer: C

Explanation: TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 provides the strongest security posture due to its use of elliptic curve Diffie-Hellman for key exchange and AES-256 for encryption, ensuring robust protection for data transmission.

**Question: 544**

Which parameter in the JSON processing policy determines how to handle unknown properties when validating a JSON payload?

- A. ignore-unknown-properties
- B. strict-validation
- C. unknown-properties-policy
- D. handle-unknown-properties

Answer: C

Explanation: The unknown-properties-policy parameter determines how the system should treat unknown properties during JSON validation.

**Question: 545**

When configuring encryption for sensitive API communications, which of the following practices is essential for ensuring secure key management?

- A. Using a secure key management system to generate, store, and rotate encryption keys.
- B. Storing encryption keys in plaintext within the application code.
- C. Ignoring key rotation policies as long as the keys are secure initially.
- D. Relying on environment variables to store encryption keys without additional protection.

Answer: A

Explanation: Using a secure key management system to generate, store, and rotate encryption keys is essential for ensuring secure key management, preventing unauthorized access and maintaining data confidentiality.

**Question: 546**

In a DataPower service, which of the following configurations would you use to log all incoming requests for audit purposes?

- A. Enable logging at the service level.
- B. Disable logging to improve performance.
- C. Use a caching policy to avoid logging.
- D. Implement a rate-limiting policy.

Answer: A

Explanation: Enabling logging at the service level ensures that all incoming requests are recorded, facilitating audit trails and compliance.

**Question: 547**

What is the recommended approach for managing configuration changes in DataPower to ensure that all updates are documented and reversible?

- A. Use a single backup; incremental changes
- B. Implement version control; track changes
- C. Rely on manual documentation; periodic reviews
- D. Schedule regular exports; no rollback

Answer: B

Explanation: Implementing version control for configuration changes ensures that all updates are documented, reversible, and can be tracked effectively, enhancing governance and compliance.



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