Vendor: IBM

Exam Code: C2180-274

Exam Name: IBM WebSphere DataPower SOA Appliances Firmware V5.0 Solution Implementation

Version: Demo
QUESTION NO: 1

A solution implementer needs to set the Log Priority of log messages within a WS-MediationPolicy policy attachment. How can the solution implementer configure the value of Log Priority?

A. Conformance object
B. Policy Parameters object
C. Policy Attachments object
D. Log Priority of the SLM action object

Answer: B
Explanation:

QUESTION NO: 2

An SLM Policy has been associated with a web service proxy to restrict access to a backend web service if one of a number of conditions has been met. The list of conditions are described in a series of SLM statements. What Evaluation Method must the solution implementer select in the SLM Policy to ensure that every SLM statement is checked until a throttle condition is executed?

A. terminate-at-first-filter
B. terminate-at-first-reject
C. terminate-at-first-action
D. terminate-at-first-refuse

Answer: B
Explanation:

QUESTION NO: 3

A customer needs message privacy and message integrity on a given transaction, and prefers the use of WS-Policy. WebSphere DataPower must receive a username from each user, but no authentication is required. In order to implement this without additional custom work, the solution implementer can:

A. use WS-Policy with UsernameToken, Encryption and Signature enforced.
B. use WS-Policy with Encryption, Signature and pass the username in the message body.
C. use an Encrypt and Sign Action in the request, followed by a Decrypt and Verify Action in the response.
D. use a basic authentication header, then use the default encryption and signature inherent in the WS-Proxy.
QUESTION NO: 4

A solution implementer has been tasked with monitoring a service and filtering requests based on how long an external backend service takes to respond. The solution implementer has chosen to use the message duration monitor in the DataPower service. Which "measure" value must the solution implementer configure to satisfy this requirement?

A. Server
B. Requests
C. Messages
D. Responses

Answer: A

Explanation:

QUESTION NO: 5

Message traffic from a customer purchasing system is passing SOAP messages through a DataPower XI52 appliance. A solution implementer uses a multi-protocol gateway to implement WS-Security to encrypt the complete message. Which of the following parameters should the solution implementer select to correctly configure the Encrypt action?

A. Envelop Method: WSSec encryption
   Message Type : SOAP Message
   Document Crypto Map : None
B. Envelop Method: WS-Security
   Message Type : SOAP Message
   Document Crypto Map : store:///encrypt_message.xsl
C. Envelop Method: Standard XML encryption
   Message Type : SOAP Message
   Document Crypto Map : store:///encrypt_message.xsl
D. Envelop Method: Advanced
   Message Type : Raw XML document
   Document Crypto Map : store:///ws_security_encrypt.xsl

Answer: A

Explanation:
QUESTION NO: 6

A solution implementer is writing a stylesheet that accepts input as shown in the following exhibit:

Given the information in the exhibit, which XPath expression locates the element named Pay:payload?

A. /pay:payload
B. //*/Customer/..B.//*/Customer/..
C. /msg:message/*C./msg:message/*
D. /msg:message/../*

Answer: B

Explanation:

QUESTION NO: 7

A solution implementer has created a stylesheet as shown in the following exhibit.
Which output would be generated when the above XML is transformed by the given stylesheet?
A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

Explanation:
QUESTION NO: 8

When debugging an SSL handshake using a packet capture, it is observed that there is a Client HELLO message followed by a Server HELLO message. Each of those packets have an associated Session ID that is different from each other. What does this indicate to the solution implementer?

A. The server is not ready to do session caching.
B. The SSL handshake is not required because of session caching.
C. A new SSL session and a full handshake will be performed.
D. A resumed SSL session and a shorter SSL handshake will be performed.

Answer: C

Explanation:

QUESTION NO: 9

Which of the following SOAP messages is valid according to the SOAP specification?
A. Option A
B. Option B
C. Option C
D. Option D

Answer: D
Explanation:

QUESTION NO: 10
Which network protocol does the "Ping Remote" DataPower function use to test network connectivity to a remote system?

A. ARP  B. HTTP  C. ICMP  D. Multicast UDP

Answer: C
Explanation:

QUESTION NO: 11
The solution implementer configured a multi-protocol gateway (MPGW) service to process WebSphere MQ messages using the same MQ queue manager object for both the front end and back end. A request rule in the processing policy sends a message to queue A and then to queue B in a single transaction by using a "Result Action". The MQ URL for the back end contains the "Transactional=true" tag. The output type of the "Result Actions" is set as "Binary" and the OUTPUT context has a named variable. What are the additional configuration options that the solution implementer needs to guarantee message delivery for both back-end queues? Specifically, if any one message fails, the entire transaction will roll back.

A. Configure two phase commit in the backend WebSphere MQ queue manager.
B. Configure "Units of Work = 1" and "Automatic Backout = off" in the MQ queue manager object.
C. Configure "Units of Work = 1" and "Automatic Backout = on"; "Backout Threshold" and "Backout Queue" defined in the MQ queue manager object.
D. DataPower cannot support this use case as an MQ queue manager object only works with global transactionality.

Answer: C
Explanation:

QUESTION NO: 12
When establishing server-side SSL authentication for an SSL connection, which one of the following sequence is used to establish a successful connection?
A solution implementer is tasked to use a DataPower appliance as an intermediary for providing Web 2.0 services. Which of the following features of Web 2.0 messages should the solution implementer be aware of when designing the solution? (choose two)

A. Web 2.0 messages can arrive with an empty body.
B. Web 2.0 messages can be secured by WS-Security.
C. Web 2.0 use cases are best suited for a web service proxy service.
D. Web 2.0 REST messages can use HTTP POST methods like SOAP messages.
E. Web 2.0 message and a SOAP message cannot be processed by the same processing policy and front side handler of a DataPower Service.

Answer: A,D
Explanation:
QUESTION NO: 14

Which XML document is valid according to XML specifications?

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D
QUESTION NO: 15

A SOAP message needs to be packaged with a JPEG. The requirement is to use SOAP with Attachments. Where would the solution implementer include the attachment in the message?

A. A SOAP header  
B. A non-root MIME part  
C. The SOAP body  
D. The root MIME part

Answer: B
Explanation:

QUESTION NO: 16

A multi-protocol gateway (MPGW) service is configured to convert an XML message to a non-XML message for the backend service. The processing policy needs to transform the request to a non-XML message using a WebSphere Transformation Extender (WTX) map and route the message to the backend service. What transform-type action does the solution implementer configure in the processing policy to satisfy this requirement?

A. Transform (xform)  
B. Transform binary (xformbin)  
C. Conformance transform (conformance-xform)  
D. Processing instruction-based transform (xformpi)

Answer: B
Explanation:

QUESTION NO: 17

A company wants to inform the consumers of their services whether the DataPower processing failed in the request or the response. They prefer to have generic error handling shared by all their rules and thus have not defined any on-error actions on individual rules. From the default error rule configured, the requirement is to inform the consumer whether the processing policy failed in the request or the response. What extension function should the solution implementer use to
A solution implementer needs to integrate a DataPower appliance with an IMS COBOL application. The multi-protocol gateway is created with an HTTP Front Side Handler and an IMS Connect backside URL of the form dpims://. The EBCDIC Header Conversion is configured as "on" in the IMS Connect object. What benefit(s) can the solution implementer achieve by using this Header Conversion option?

A. Converts IMS headers to ASCII encoding
B. Converts IMS headers to EBCDIC encoding
C. Converts both IMS headers and payload to ASCII encoding
D. Converts both IMS headers and payload to EBCDIC encoding

Answer: B
Explanation:

A bank wants to be able to dynamically change the behavior of its DataPower mediations for certain services after they have been deployed to production to quickly respond to minor changes in back end services. Towards this purpose, the solution implementer configured rules with a transform action that will dynamically run pre-tested style sheets. What should the solution implementer use to satisfy this requirement?

A. evaluate() extension function
B. transform() extension function
C. pre-processing() extension function
D. <xsl:include ..> statement to include it dynamically at run time if the file exists

Answer: B
QUESTION NO: 20

A DataPower application is to be deployed to development, test, pre-production, and production environments. The solution implementer has the requirement to make the application migration easier and portable. What can the solution implementer use to accomplish this?

A. Unique System Identifiers and map variables to each system identifier
B. Explicit IP Address in Front Side Handler and Back End Remote Host
C. Deployment Policy, Host Alias, Static Host, and externalize end points
D. SLM Policy, Configuration Checkpoints, and Compare Configuration tool

Answer: C
Explanation:

QUESTION NO: 21

A solution implementer has configured a processing policy that executes a stylesheet with the following code snippet:

```xml
<xsl:variable name="myprop"></xsl:variable>

<xsl:if test="string-length($MQMPHeader) &gt; 0">
  <xsl:value-of select="$MQMPHeader/Property[@name='myprop']/text()"/>
</xsl:if>
</xsl:variable>
```

Which MQ front side handler properties should the solution implementer configure to allow this code snippet to access the message property named "myprop"?

A. Enable Parse Properties
B. Select the Exclude Message Header property "Message Properties (MQMP)"
C. Select the Exclude Message Header property "Rules and Formatting Header (MQRFH)"
D. Select the Exclude Message Header property "Rules and Formatting Header (MQRFH2)"

Answer: A
Explanation:
QUESTION NO: 22

A solution implementer has created a multi-protocol gateway (MPGW) service to process messages containing the MQRFH2 header. The MQ front side handler is configured to exclude "MQRFH2" headers from the payload. How does the solution implementer configure the MPGW service Header tab to send the request as an MQ message for the backend service?

A. Suppress "MQMD" header for the backend with a direction as "back".
B. Suppress "MQRFH2" header for the backend with a direction as "back".
C. Inject the header named "MQMD" with the value of 
   
   "<MQMD><Format>MQSTR</Format></MQMD>" for the backend with a direction as "back".
D. Inject the header named "MQMD" with the value of 
   
   "<MQMD><Format>MQSTR</Format></MQMD>" for the backend with a direction as "front".

Answer: C
Explanation:

QUESTION NO: 23

A solution implementer is required to enrich the request message using information stored in a DB2 database table. The search condition of the SQL query needs to be dynamically generated by using a search key from the request message. Which SQL Input Methods can the solution implementer configure to execute the dynamic SQL in a SQL action? (choose two)

A. Static
B. Variable
C. Stylesheet
D. Web service
E. Dynamic SQL

Answer: B,C
Explanation:

QUESTION NO: 24

The solution implementer wants to create a web service that uses SOAP over HTTP on the front end, and WebSphere MQ on the back end to integrate with an existing legacy application. The solution implementer wants to add a new WSDL to the existing web service proxy service to route traffic to an MQ queue. How does the solution implementer meet this requirement?

A. Use the Backend URL MQ helper to build the proper back end URL.
B. Add the new WSDL and use the endpoint referenced by the WSDL.
C. Add the new WSDL and create a new back end URL using the dpmq:// syntax.
D. Add the new service operations to the existing WSDL and create a new MQ back end URL.

Answer: C
Explanation:

QUESTION NO: 25

A solution implementer is configuring a single multi-protocol gateway to dynamically route messages to back end servers. For internal consumers the request needs to be routed to an MQ based back end and for external consumers the request needs to be routed to an HTTP based back end service. How can the solution implementer satisfy this requirement?

A. Use the xset-target extension function.
B. Select a route action with an XPath routing map.
C. Set the variable var://service/routing-url.
D. Set the variables var://service/URI for the server and var://service/protocol-method for the protocol type.

Answer: C
Explanation:

QUESTION NO: 26

A solution implementer needs to configure a front side handler in a multi-protocol gateway service that only accepts messages from applications servers that are in the 10.10.10.0/24 subnet. What can the solution implementer configure in a front side handler to restrict messages to the 10.10.10.0/24 subnet?

A. Specify a Local IP Address of 10.10.10.0/24
B. Specify a Port Number to a value in the ephemeral port range
C. Specify an Access Control List with an entry of "allow 10.10.10.0/24"
D. Specify a SSL Proxy Profile that requires a client side certificate signed by a trusted certificate authority

Answer: C
Explanation:
QUESTION NO: 27

A company would like to use a DataPower appliance to process messages from 3 different systems. The protocols for each system are: HTTP, HTTPS, and MQ. The solution implementer wants to use a single multi-protocol gateway (MPGW) service to handle all 3 types of messages. How can the solution implementer configure the MPGW service?

A. Create 3 Front Side Handlers, one for each protocol
B. Create 1 shared HTTP/HTTPS Front Side Handler, and 1 MQ Front Side Handler
C. Only 1 Front Side Handler can be used for each MPGW
D. All Front Side Handlers for a MPGW must be of same protocol type

Answer: A
Explanation:

QUESTION NO: 28

An multi-protocol gateway (MPGW) service is created to process a request message containing values for the MQMD.ReplyQ and MQMD.ReplyToQMgr that are not configured in the MPGW service. The back end service sends a SOAP message as response to the MPGW service that needs to be routed to the originating client using MQ Object Descriptor (MQOD) method. How can the solution implementer accomplish this requirement using the configured MPGW service?

A. Using Header Tab, inject service virtual headers named "ReplyToQ" and "ReplyToQM" with the value of an empty string for the front end with adirection as "front"
B. Using Header Tab, inject service virtual headers named "ReplyToQ" and "ReplyToQM" with the value of an empty string for the back end with adirection as "back"
C. Using XSLT, inject service virtual headers named "ReplyToQ" and "ReplyToQM" with the value of an empty string in the response rule asshown below:
   <dp:set-response-header name="ReplyToQ" value="" />
   <dp:set-response-header name="ReplyToQM" value="" />
D. Using XSLT, inject service virtual headers named "ReplyToQ" and "ReplyToQM" with the value of an empty string in the request rule as shownbelow:
   <dp:set-request-header name="ReplyToQ" value="" />
   <dp:set-request-header name="ReplyToQM" value="" />

Answer: C
Explanation:

QUESTION NO: 29
The solution implementer wants to set up the Interoperability Test Service (ITS) to simplify service development for the DataPower developers. How can the solution implementer provide this capability?

A. Download the Resource Kit from IBM Fix Central, and supply the Resource Kit test clients to the developers.
B. Download the Resource Kit from IBM Fix Central, enable ITS, and supply the Resource Kit test clients to the developers.
C. Download the ITS configuration and Resource Kit from IBM Fix Central, import and enable ITS, and supply the Resource Kit test clients to the developers.
D. Download the ITS configuration and Resource Kit samples from the DataPower information center, import ITS, and supply the test clients to the developers.

Answer: B
Explanation:

QUESTION NO: 30

A solution implementer needs to create a multi-protocol gateway (MPGW) service to process XML messages. The service needs to transform the payload based on the value of the stylesheet parameter. Which code snippet will allow the solution implementer to configure the stylesheet parameter in that MPGW service that can transform different types of payloads?
A customer has created a multi-protocol gateway with a request type of JSON. Within the request
rule, an action needs access to the input in JSONx format. What are the possible ways that a solution implementer can retrieve this data in XML? (choose two)

A. Set the Convert Input property in the Advanced tab to On.
B. Set the action’s input context to the value '__JSONASJSONX'.
C. Insert a Fetch action, and select JSONx as the Output Type on the Advanced tab.
D. Insert a Transform action, and select store:///jsontojsonx.xsl from the drop-down list.
E. Insert a Convert query parameters to XML (convert-http) action, and select a Default Encoding of 'JSON' in the Input Conversion Map.

Answer: B,E
Explanation:

QUESTION NO: 32

Operations management has identified a list of activities for its staff to perform in their DataPower appliances. The solution implementer has installed WebSphere Appliance Management Center (WAMC) V5. What activities can the solution implementer recommend to operations management to perform with WAMC? (choose 3)

A. Create and delete domains and services.
B. Perform a secure backup at the appliance level.
C. Perform a standard backup at the domain level or the appliance level.
D. Deploy firmware from the WAMC repository to one or more appliances at a time.
E. Download firmware upgrades from IBM Fix Central into the WAMC repository.
F. Upload files such as style sheets and schemas from the WAMC repository to the appliances.

Answer: A,B,D
Explanation:

QUESTION NO: 33

A solution implementer needs to generate an X.509 private key and provide an associated Certificate Signing Request (CSR) to a certificate authority for signing and issuing of an associated public certificate. The private key, certificate signing request, and public certificate files must be archived in a certificate management system external to the appliance.

Which one of the following requests to the XML Management Interface will the solution implementer use to satisfy this requirement?
xmlns:dp="http://www.datapower.com/schemas/management">
  <env:Body>
    <dp:request domain="default">
      <dp:do-action>
        <keygen>
          <C>US</C>
          <ST>Your State</ST>
          <L>Your City</L>
          <O>Yourco Corporation</O>
          <OU>yourorg</OU>
          <CN>yournname.yourco.com</CN>
          <FileName>yourfilename</FileName>
          <ExportKey>off</ExportKey>
          <GenSSCert>on</GenSSCert>
          <ExportSSCert>on</ExportSSCert>
          <GenObject>off</GenObject>
        </keygen>
        </dp:do-action>
    </dp:request>
  </env:Body>
</env:Envelope>

xmlns:dp="http://www.datapower.com/schemas/management">
  <env:Body>
    <dp:request domain="default">
      <dp:set-config>
        <cryptokey>
          <C>US</C>
          <ST>Your State</ST>
          <L>Your City</L>
          <O>Yourco Corporation</O>
          <OU>yourorg</OU>
          <CN>yournname.yourco.com</CN>
          <FileName>yourfilename</FileName>
          <ExportKey>off</ExportKey>
          <GenSSCert>on</GenSSCert>
          <ExportSSCert>on</ExportSSCert>
          <GenObject>off</GenObject>
        </cryptokey>
      </dp:set-config>
    </dp:request>
  </env:Body>
</env:Envelope>
C. `<xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope"
 xmlns:dp="http://www.datapower.com/schemas/management">
 <env:Body>
  <dp:request domain="default">
   <dp:do-action>
    <Keygen>
     <C>US</C>
     <ST>Your State</ST>
     <L>Your City</L>
     <O>Yourco Corporation</O>
     <OU>yourorg</OU>
     <CN>yourname.yourco.com</CN>
     <FileName>yourfilename</FileName>
     <ExportKey>on</ExportKey>
     <GenSSCert>off</GenSSCert>
     <ExportSSCert>off</ExportSSCert>
     <GenObject>off</GenObject>
     </Keygen>
    </dp:do-action>
   </dp:request>
  </env:Body>
 </env:Envelope`

D. `<xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope"
 xmlns:dp="http://www.datapower.com/schemas/management">
 <env:Body>
  <dp:request domain="default">
   <dp:do-action>
    <CryptoKey>
     <C>US</C>
     <ST>Your State</ST>
     <L>Your City</L>
     <O>Yourco Corporation</O>
     <OU>yourorg</OU>
     <CN>yourname.yourco.com</CN>
     <FileName>yourfilename</FileName>
     <ExportKey>on</ExportKey>
     <GenSSCert>off</GenSSCert>
     <ExportSSCert>off</ExportSSCert>
     <GenObject>off</GenObject>
     </CryptoKey>
    </dp:do-action>
   </dp:request>
  </env:Body>
 </env:Envelope`

A. Option A
B. Option B
C. Option C
D. Option D

Answer: C
Explanation:
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