Exam : **C2180-274**

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

Vendor : IBM

Version : V12.35

NO.1 A DataPower Processing Policy has been coded to use DataPower variables.

To analyze an error in one of the Rules, a solution implementer has enabled the Probe to review message content and DataPower variables. Given the data in the Probe, which one of the following shows the correct variable and scope?

A. Context (Scope: Single processing rule) Error (Scope: Single processing rule)

B. Context (Scope: Singletransaction) Service (Scope: Multiple transactions)

C. Service (Scope: Single transaction) Local (Scope: Spans repeated transactions)

D. Service (Scope: Single transaction) System (Scope: Spans repeated transactions)

Answer: D

NO.2 A solution implementer is given the requirement to capture only a subset of messages emitted by a particular service to its own custom logging target. The solution implementer uses an <xsl:message> statement in the style sheet referenced by the transformation actions. How does the solution implementer meet this requirement?

A. Define an object filter, use it in the <xsl:message> statement and define a log target that uses that object filter.

B. Define a new event filter, use it in the <xsl:message> statement and define a log target that subscribes to that event filter.

C. Define a log category, use it in the <xsl:message> statement and define a log target that subscribes to that event category.

D. Define a new log target and an object filter which filters messages based on the name of the DataPower service hosting the application.

Answer: C

NO.3 A solution implementer needs to configure the appliance to throttle transactions if the device memory utilization reaches 70%. What can the solution implementer do to achieve the desired result?

A. Configure Throttle Settings and set the Memory Throttle threshold to 30%.

B. Configure an SLM action to throttle transactions when memory reaches 70%.

C. Configure the Statistic Settings with load interval of 1 and memory threshold to 30%.

D. Memory management is an internal DataPower function and cannot be configured.

Answer: A

NO.4 A solution implementer has created a stylesheet as shown in the following exhibit.

XML:
```
<?xml version="1.0" encoding="utf-8"?>
<cert>
 <topic name='Stylesheet Variables'>
    Knowledge of Stylesheet Variables
 </topic>
</cert>
```

XSLT:
```
<?xml version="1.0" encoding="utf-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:output method="xml"/>

 <xsl:template match="/">
  <xsl:variable name="topic"><xsl:value-of select="//topic"/></xsl:variable>
  <html>
   <title>DataPower Certification</title>
   <xsl:element name="p">
    <xsl:choose>
      <xsl:when test='$topic="Security"'>Topic: Web Services Security</xsl:when>
      <xsl:when test='$topic="Protocols"'>Topic: Supported Protocols</xsl:when>
      <xsl:otherwise>Topic: <xsl:value-of select="$topic"/></xsl:otherwise>
    </xsl:choose>
   </xsl:element>
  </html>
 </xsl:template>

</xsl:stylesheet>
```

Which output would be generated when the above XML is transformed by the given stylesheet?

A. ```xml
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <title>DataPower Certification</title>
    <element name="p">
      Topic: Stylesheet Variables
    </element>
</html>
```

B. ```xml
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <title>DataPower Certification</title>
    <p>
     <topic>
       Topic: Stylesheet Variables
     </topic>
    </p>
</html>
```

C. ```xml
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <title>DataPower Certification</title>
    <p>
      Topic: Knowledge of Stylesheet Variables
    </p>
</html>
```

D. ```xml
<?xml version="1.0" encoding="UTF-8"?>
<html>
  <title>DataPower Certification</title>
    <p>
     <topic>
       Topic: Knowledge of Stylesheet Variables
     </topic>
    </p>
</html>
```

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

Answer: C

NO.5 A financial services company (Company) is using a DataPower appliance to securely access an external service provider (Partner) that processes SOAP/HTTPS payment transactions and returns the

responses to the requesting application in the Company with payment confirmations. The Partner requires that Company establish non-repudiation so that the financial services company cannot deny that the payment transaction was originated by them. The Company requires that the confirmation sent back from the Partner also requires non-repudiation. Which of the following statements is true?

A. Request Rule must Verify with crypto object containing Company public certificate and Response Rule must Sign with crypto object containing Partner private key

B. Request Rule must Verify with crypto objectcontaining the private key of Partner and Response Rule must Sign with crypto object containing Company public certificate

C. Request Rule must Sign with crypto object containing the Company private key and Response Rule must Verify with crypto object containing Partner public certificate

D. Request Rule must Sign with crypto object containing the public certificate of Partner and Response Rule must Verify with crypto object containing Company private key

Answer: C

NO.6 A company-wide Certificate Authority (CA) provides its internal CA root and intermediary certificates to the solution implementer to use for the creation of Validation Credentials that validates several back end servers using SSL. The two lines of business in the company provide services on two different domains on DataPower and two different banks of servers on the back end. The requirement is to share a single copy of the CA certificates to create validation credentials in two domains for both the lines of business to simplify maintenance. How can the solution implementer satisfy the requirement?

A. Store the CA certificates in the sharedcert: folder from the default domain.

B. Store the CA certificates in the store:///cert folder from the default domain.

C. Create Validation Credentials in the default domain so it can be shared across all the domains.

D. Store the certificatein the cert: folder in any of the two domains and mark the certificate as shared.

Answer: A

NO.7 A solution implementer is required to enrich the request message using information storedin 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

NO.8 A solution implementer needs to integrate the following security profile.

```
<?xml version="1.0" encoding="UTF-8"?>

<wsp:Policy xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
            xmlns:sp="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200512"
            xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">

    <dpe:summary xmlns="" xmlns:dpe="http://www.datapower.com/extensions">
        <dppolicy:domain xmlns:dppolicy="http://www.datapower.com/policy">
          http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200512
        </dppolicy:domain>
        <description>
          Implements WAS Web Service WSSecurity Default
        </description>
    </dpe:summary>

    <wsp:Policy wsu:Id="binding-policy">
      <sp:AsymmetricBinding>
        <wsp:Policy>
          <sp:InitiatorToken>
            <wsp:Policy>
              <sp:X509Token sp:IncludeToken="http://docs.oasis-open.org/ws-sx/ws
securitypolicy/200512/IncludeToken/AlwaysToRecipient">
                <wsp:Policy>
                  <sp:WssX509V3Token10/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:InitiatorToken>
          <sp:RecipientToken>
            <wsp:Policy>
              <sp:X509Token
sp:IncludeToken="http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200512/IncludeToken/AlwaysToInitiator">
                <wsp:Policy>
                  <sp:WssX509V3Token10/>
                </wsp:Policy>
              </sp:X509Token>
            </wsp:Policy>
          </sp:RecipientToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic128Rsa15/>
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Strict/>
            </wsp:Policy>
          </sp:Layout>
          <sp:IncludeTimestamp/>
          <sp:EncryptSignature/>
        </wsp:Policy>
      </sp:AsymmetricBinding>
    </wsp:Policy>

    <wsp:Policy wsu:Id="request_parts">
      <sp:SignedParts>
        <sp:Body/>
        <sp:Header Namespace="http://schemas.xmlsoap.org/ws/2004/08/addressing"/>
        <sp:Header Namespace="http://www.w3.org/2005/08/addressing"/>
      </sp:SignedParts>
      <sp:EncryptedParts>
        <sp:Body/>
      </sp:EncryptedParts>
    </wsp:Policy>

    <wsp:Policy wsu:Id="response_parts">
      <sp:SignedParts>
```

What must the solution implementer do to a message to satisfy this policy?
A. Encrypt and sign the body of the message.
B. Encrypt the body and header. Sign BOTH body and header.
C. Encrypt the body, sign the message and usean X.509 Token.
D. Encrypt the body, sign the Parts, and use an UsernameToken.

Answer: C

NO.9 A company has an extensive list of Miscellaneous XML Threats that they require protection from. The list includes: ?XML Entity Expansion and RecursionAttacks ?XML Wellformedness-based Parser Attacks ?Memory Space Breach and Buffer Overflow Attacks ?Public Key DoS Attacks ?Resource Hijack Attacks What must the solution implementer do to protect SOA Applications exposed via a WSDL and a Web Service Proxyservice?
A. Enable the web service proxy's QL Injection Protection?Enable the web service proxy's ?QL Injection Protection?
B. Enable the web service proxy's ingle Message XML Denial of Service (XDoS) Protection".Enable the web service proxy's ?ingle Message XML Denial of Service (XDoS) Protection".
C. Enable the web service proxy's ultiple Message XML Denial of Service (MMXDoS) Protection".Enable the web service proxy's ?ultiple Message XML Denial of Service (MMXDoS) Protection".
D. Web service proxy default options protect against these threats. No configuration is required.
Answer: D

NO.10 A solution implementer has created a multi-protocol gateway (MPGW) service to process messages containing theMQRFH2 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

NO.11 The network requirements for an appliance state that there should be an internal network used for the management Ethernet interface and all other Ethernet interfaces will use the same external network. With these requirements in mind, how can the solution implementer configure the Ethernet Interfaces to ensure only the specified internal network uses the management interface and all other outgoing traffic uses one of the other interfaces?
A. Develop a style sheet forcontent based routing that uses host header.
B. Define Secondary Addresses for the internal network on all interfaces.
C. Define Default Gateways on all interfaces with TCP Window Scaling enabled.
D. Define Static Route for internal network on the management interface and configure the Default Gateway on all other interfaces.
Answer: D

NO.12 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

NO.13 A web service proxy is configured with a subscription to a Concept in WebSphere Service Registry and Repository (WSRR) V7.5 or later. A new WSDL is added to the Concept from the WSRRinterface.

What options are available to the solution implementer or updating the web service proxy to include the new WSDL? (choose 3)

A. Open the WSRR Server object and set the Update field to Auto.

B. Navigate to the Advanced Proxy Settings tab and click 'Poll Now'.

C. Navigate to the WSRR Subscription Status page and click 'Synchronize'.

D. In the WSRR interface, open the Concept page and click 'Deploy to DataPower'.

E. Set the Synchronization Method to Poll and then wait for the RefreshInterval.

F. Set the Synchronization Method to Automatic and then wait for the WSRR refresh interval.

Answer: C,E,F

NO.14 A company has DataPower XI52 physical appliances supporting its production environment. The only optional feature that these appliances support is the Option for Application Optimization. The company also uses DataPower Integration Appliance XI52 Virtual Edition for Non Production Environment for its development and test environment. Development management is concerned about their developers using features on the virtual appliance that are not licensed on the production appliances. How can the solution implementer restrict the use of specific features on the virtual appliances?

A. Download the correctly-featured firmware from IBM Fix Central. Upload the firmware to the virtual appliance and reinitialize the appliance.

B. Download the correctly-featured firmware from IBM Fix Central. Upload the firmware to the virtual appliance and perform a boot image.

C. Downloadthe appropriate feature_disable_tool.scrypt4 tools from IBM Fix Central.
Upload each tool to the virtual appliance and perform a boot image.

D. Copy the store:///license.xml file from a production appliance to the virtual appliance to limit the virtual appliance to the production appliance's licensed features.

Answer: C

NO.15 A web service proxy is receiving orders from partners as SOAP messages. The service is required to reject messages if the total order cost in themessage does not match the sum of the

individual item costs. What can the solution implementer do to support this requirement?

A. Create an XML Schema that enforces the above business requirements and uses this schema in a Validate action.

B. Create a style sheet which performs the mathematical comparison and uses either a <dp:accept> or <dp:reject>, and use this in a Filter action.

C. Configure an SLM Statement with the Threshold Level that computes the total order cost, and if it does not match the totalvalue then throttle the transaction.

D. Define the requirement in a WS-Policy attachment for the service. The web service proxy will then automatically perform the mathematical comparison and reject any invalid messages.

Answer: B

NO.16 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) serviceto 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

NO.17 A service needs to be configured on the DataPower appliance to allow a client to share access to aprivate resource. This sharing must be done without the sharing of user credentials. A solution implementer has decided to implement an OAuth solution for the customer. Which of the following are available to the solution implementer to implement OAuth?(choose 3)

A. AAA action

B. SSL proxy profile

C. Web Token Service

D. 1-legged authentication

E. OAuth client and OAuth client group

F. OAuth open source DataPower plug-in

Answer: A,C,E

NO.18 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 thesolution? (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

NO.19 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

NO.20 A solution implementer has been provided the following securityrequirements to implement a solution for a company to transact business with its business partners. ?Message Confidentiality - none can see the message in transit in clear text between the company and partner end points ?Message Integrity - no man-in-the-middle tampered with the message between the company and partner end points ?Non-repudiation - be able to verify the senders are who they say they are What actions should the solution implementer take to satisfy all the requirements?

A. Use SSL and createa digital signature solution with sign and verify actions.

B. Use SSL and create an asymmetric encryption on the message with encrypt and decrypt actions.

C. Use SSL since it satisfies all the requirements without the use of either encrypt/decrypt actionsor sign/verify actions.

D. Use symmetric encryption and share the encryption key with the partner for both request and response.

Answer: A

NO.21 A company wants to enforce the run-time SOA governance using service level agreement (SLA) and servicelevel definitions (SLD) policy attachments for a line of business. The solution implementer has configured a web service proxy service that uses a WebSphere Service Registry and Repository (WSRR) subscription to meet this requirement. The WSRR server hoststhe governance enablement profile that contains SLA and SLD entities. The SLA objects in WSRR are in SLA Active State. During a test run, it was identified that SLA policies from WSRR are not enforced. How can the solution implementer resolve this situation to enforce SLA policies? (choose 2) Verify that the:

A. SLA policies are accurate using probe.

B. SLA Enforcement Mode is set as "reject".

C. WSRR server object is set to version 7.5 or later.

D. WS-Policy Enforcement Mode is set as "enforce".

E. FetchPolicy Attachments option for the WSRR Subscription is set as "on".

Answer: C,E

NO.22 A solution implementer needs to create a new service on a DataPower virtual appliance. The new server needs to virtualize the back end server IP address from the end user while exposing

operations of a web service described by a given WSDL. Service Level Monitoring (SLM) is also to be incorporated at the port level. Which service type should the solution implementer configure?

A. XML Firewall

B. Web ServiceProxy

C. Multi-Protocol Gateway

D. Web Application Firewall

Answer: B

NO.23 A solution implementer creates a request to the XML Management Interface as shown in the following exhibit:

```xml
<?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="mydomain">
      <dp:modify-config>
        <LogTarget name="mylogtarget">
          <RemoteAddress>somehost.yourco.com</RemoteAddress>
        </LogTarget>
      </dp:modify-config>
      <dp:do-action>
        <SaveConfig />
      </dp:do-action>
    </dp:request>
  </env:Body>
</env:Envelope>
```

The XMLManagement Interface configuration on all appliances is configured with the property "SOAP Management URI" enabled. There may be other unsaved changes in this domain. Which of the following statements about the request are true? (choose 2)

A. Using no URIfor the request will be successful.

B. Using a URI for the request of /service/mgmt/current will be successful.

C. Only the logging target configuration will be saved.

D. Only the remote address property of the logging target object will be modified.

E. The request will modify the logging target object's remote address property and set its other properties to their default values.

Answer: A,D

NO.24 A solution implementer is configuring a AAA Policy to secure a DataPower service. Why would the solution implementer configure Mapping Authentication Credentials and Mapping Requested Resources in the DataPower AAA Policy? (choose 2)

A. To map the requested resource to the correct backend URL for dynamic message routing.

B. To map the requested resource from a legacy operation name to a new operation name to allow correctauthorization.

C. To map the authenticated credentials to an alternative security token to insert into the message payload for authorization.

D. To map the authenticated credentials from a DN-formatted LDAP response to a username for

Tivoli Access Manager(TAM) authorization.

E. To map the authenticated credentials to mediate the security headers of two different protocols (for example from HTTP headers to MQMD).

Answer: B,D

NO.25 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 SignAction 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.

Answer: A

NO.26 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 forthe 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

NO.27 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 therequest 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

NO.28 A solution implementer is deploying four DataPower XI52 appliances in a production environment. The requirement is to evenly distribute clienttraffic across all four appliances without using an external load balancer. The firmware on these four appliances has the Application Optimization feature enabled. A standby Virtual IP address (VIP) has also been configured on each appliance with self-balancing enabled, and each VIP specifies the same standby group. No other appliance network settings have been changed. What should the solution implementer verify with the network team to ensure that this configuration will work? Ensure the network supports:

A. gratuitous ARP.

B. rapid spanning tree.

C. virtual MAC takeover.

D. multiple MAC addresses per Ethernet port.

Answer: A

NO.29 The solution implementer is testing a new service and finds that the client is receiving a soap fault response during the test.

The default-log shows the following:

```
[xmlfirewall][info] xmlfirewall(example-Firewall): tid(3362945)[request][client_ip]: New transaction(conn use=1): POST http://datapower_host:5013/testURI from client_ip
[xmlfirewall][debug] Matching(match_all): tid(3362945)[client_ip]: Match: Received URL [/testURI] matches rule '*'
[xmlfirewall][info] xmlfirewall(example-Firewall): tid(3362945)[request][client_ip]: rule (default_rule_0): selected via match 'match_all' from processing policy 'default'
[memory-report][debug] xmlfirewall(example-Firewall): tid(3362945)[client_ip]: Request Started: memory used 97200
[xmlparse][debug] xmlfirewall(example-Firewall): tid(3362945)[request][client_ip]: Parsing document: 'http://datapower_host:5013/testURI'
[xmlparse][error] xmlfirewall(example-Firewall): tid(3362945)[request][client_ip]: mismatched tag, expected test at offset 3006 of http://datapower_host:5013/testURI
[multistep][error] xmlfirewall(example-Firewall): tid(3362945)[request][client_ip]: rule (default_ru e_0): implied action Parse input as XML failed: mismatched tag, expected test at offset 3006 of http://datapower_host:5013/testURI
[multistep][error] xmlfirewall(example-Firewall): tid(3362945)[client_ip]: Parse error
[xmlfirewall][warn] xmlfirewall(example-Firewall): tid(3362945)[client_ip]: Generated error to 0.0.0.0 5013 on URL 'http://datapower_host:5013/testURI'
[xmlfirewall][error] xmlfirewall(example-Firewall): tid(3362945)[error][client_ip]: Parse error
[xmlfirewall][notice] stylepolicy(default): tid(3362945)[client_ip]: No error rule is matched.
[xmlfirewall][warn] xmlfirewall(example-Firewall): tid(3362945)[error][client_ip]: No match from processing policy 'default' for code '0x00030001'
[memory-report][debug] xmlfirewall(example-Firewall): tid(3362945)[client_ip]: Response Finished: memory used 113280
[xmlfirewall][debug] xmlfirewall(example-Firewall): tid(3362945)[client_ip]: Starting termination of connection client_ip:3437 datapower_host:5013
```

What conclusion can the solution implementer determine by analyzing and interpreting the above log?

A. Parsing began on the message and failed due to mismatched XML tag.

B. Parsing of the URL began and too much memory was used when the request started.

C. The connection was terminated due to a client IP address parsing problem.

D. The connection did not reuse a persistent connection and triggered a parse error on the response.

Answer: A

NO.30 A customer wants to protect communication between two WebSphere DataPower Appliances against a replay attack. The second DataPower appliance needs to validate that the message received from the first appliance has spent no more than 30 seconds in transit. How should the solution implementer satisfy this requirement?

A. Set the var://service/transaction-timeout variable on the first DataPower appliance to30 seconds.

B. Configure mutually authenticated SSL between the two DataPower appliances with an SSL timeout field configured to 30 seconds.

C. Use symmetric key encryption using an encrypt-string extension function on a timestamp string on the first DataPower appliance. Then use the same key with a decrypt-string extension function on the second appliance and validate the timestamp.

D. Use symmetric key encryption using an encrypt-string extension function on a timestamp string on the first DataPower appliance. Then use the public certificate from the first device with a decrypt-string extension function on the second appliance and validate the timestamp.

Answer: C

NO.31 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 withan 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 buildthe 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

NO.32 The solution implementer needs to configure the DataPower appliance to restrict user account access to specific domains. The solution implementer implements this requirement by configuring the Domain Restriction section of the user account. During application execution, the configured user account is able to access a domain that is configured as restricted (no access allowed by this user). What should the solution implementer identify as a valid source of the problem?

A. An existing access policy or RBM policy can supersede the Domain Restriction list.

B. User access cannot be restricted to a specific domain in the user account configuration.

C. The user is a member of the 'root' user group.

D. The RBM system was not used to restrict access, which is the only way to meet the Domain Restriction requirement.

Answer: A

NO.33 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 mustthe 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

NO.34 A solution implementer is considering the following active-standby configuration between two DataPower appliances:

Single Virtual IP Address: 10.34.1.45

Appliance 1 (active)
Primary IP Address: 10.34.1.46
Priority: 100

Appliance 2 (standby)
Primary IP Address: 192.168.10.12
Priority: 60

In a simulated power failure of Appliance 1 using this active-standby configuration in a sandbox environment, Appliance 2 did not take over the active interface. What could be causing this behavior?

A. It can take several minutes for the standby interfaces to be active in an active-standby configuration.

B. Appliances in the active-standby configuration must be in the same network subnet and broadcast domain.

C. In an active-standby configuration, thepriority of Appliance 2 must be changed to 99 for the failure takeover to work.

D. There might be a firewall between the two appliances which has not been configured to allow broadcast traffic in an active-standby configuration.

Answer: B

NO.35 Which networkprotocol 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

NO.36 A solution implementer is writing a stylesheet that accepts input as shown in the followingexhibit:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <msg:message xmlns:hdr="http://schemas.ibm.com/header" xmlns:msg="http://schemas.ibm.com/message" xmlns:pay="http://schemas.ibm.com/payload">
  - <hdr:header>
      <sequencenum>http://esb.ibm.com/source-system:0123-4567-8901-2345</sequencenum>
      <destination>http://esb.ibm.com/dest-system</destination>
      <source>http://esb.ibm.com/source-system</source>
      <action>http://esb.ibm.com/dest-system#CustomerInfoRequest</action>
      <timestamp>2013-04-18T19:30:47.0Z</timestamp>
    </hdr:header>
  - <pay:payload>
    - <Customer>
        <Company>Some Company</Company>
        <Name>Some Person</Name>
      - <ContactInfo>
        - <Address AddressType="Business">
            <Street>123 Some Street</Street>
            <City>Some City</City>
            <State>XX</State>
            <Country>USA</Country>
            <ZipCode>12345</ZipCode>
          </Address>
        - <Address AddressType="POBox">
            <Street>PO Box 123</Street>
            <City>Some City</City>
            <State>XX</State>
            <Country>USA</Country>
            <ZipCode>54321</ZipCode>
          </Address>
        - <Phone PhoneType="Business">
            <PhoneNumber>123-456-7890</PhoneNumber>
          </Phone>
        - <Email EmailType="Business">
            <EmailAddress>workaddr@somecompany.com</EmailAddress>
          </Email>
        - <Email EmailType="Personal">
            <EmailAddress>homeaddr@someisp.com</EmailAddress>
          </Email>
        </ContactInfo>
      </Customer>
    - <Product>
        <ProductType>Widget</ProductType>
        <UnitPrice Currency="USD">123.45</UnitPrice>
        <Quantity>6</Quantity>
      </Product>
    - <Product>
        <ProductType>Whatsit</ProductType>
        <UnitPrice Currency="CAD">543.21</UnitPrice>
        <Quantity>7</Quantity>
      </Product>
    </pay:payload>
  </msg:message>
```

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

A. /pay:payloadA./pay:payload

B. //*/Customer/..B.//*/Customer/..

C. /msg:message/*C./msg:message/*

D. /msg:message/..//*/payloadD./msg:message/..//*/payload

Answer: B

NO.37 A solution implementer needs to set the Log Priority of log messageswithin 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

NO.38 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

NO.39 A Client sends a message to a multi-protocol gateway which uses HTTP basic authentication to authenticate the Client by usingLDAP. The parameters and transaction flow information is provided below:
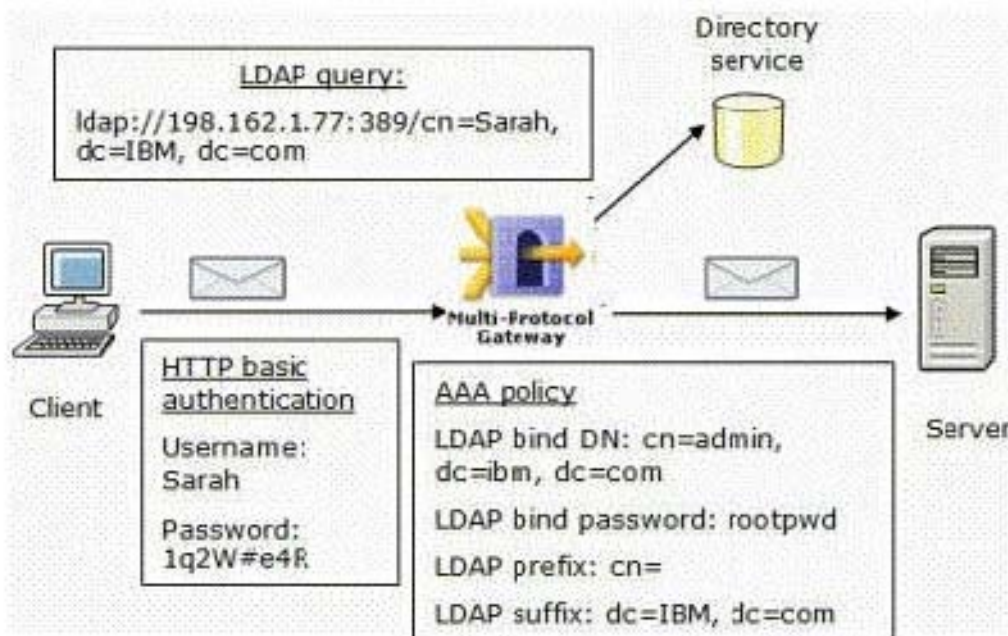
How is the Client authenticated?

A. The user name and password part of the HTTP basic authentication message are used to log in (bind) to the LDAP server.

B. The HTTP basic authentication is used with the DataPower XML authentication file. The output credentials are used to authenticate the LDAP directory server.

C. The password that is sent by the Client using the HTTP basic authentication header is a critical part of the LDAPquery and is used for the genPassword() algorithm for Client bind LDAP authentication.

D. The LDAP bind DN and password are used to authenticate the appliance to the directory service and the Client's user name and password are used to build the LDAP credentials to authenticate the Client.

Answer: D

NO.40 A company wants to implement disaster recovery (DR) between a9004/9235 appliance and a 9005/7199 appliance. The company is also considering the inclusion of a DR-enabled XI52 virtual

appliance in the plan. The following conditions apply: ?The source and target hardware appliances are located in geographically dispersed data centers. ?The firmware level is V5.0.0.x on the appliances, and the appliances and licenses are compatible. ?Both appliances have a different set of users that need to be merged on the restore. ?The source appliance has been initialized with disaster recovery mode and is to be securely backed up and restored on to the target appliance. Which one of the following statements is TRUE and allows the solution implementer to meet these conditions?

A. Only the source appliance must be set to disaster recovery mode for the secure restore to be successful.

B. The secure backup from the 9005 physical appliance can be restored on the virtual appliance since they are both 9005 implementations.

C. After the secure restore, the users that were defined on the target appliance must be manually configured or imported from a previously-exported configuration.

D. Merge the contents of the source appliance with the target appliance by NOT selecting the "overwrite" option when prompted, which will merge the users on the target appliance.

Answer: C

NO.41 The following exhibit shows a SAML version 1.1 assertion that is generated in the postprocessing step of an access control policy.

```
<saml:Assertion xmlns:saml="urn:oasis:names:tc:SAML:1.0:assertion"
 xmlns:samlp="urn:oasis:names:tc:SAML:1.0:protocol"
 AssertionID="IDd600a593-4e13-44d9-829a-3055600c46ca"
 IssueInstant="2013-02-28T18:51:02Z" Issuer=http://training.ibm.com/security/
 MajorVersion="1" MinorVersion="1">
   <saml:Conditions NotBefore="2013-02-28T18:51:02Z" NotOnOrAfter="2013-02-28T18:54:02Z"/>
   <saml:AuthenticationStatement AuthenticationInstant="2013-02-28T18:51:02Z"
    AuthenticationMethod="urn:oasis:names:tc:SAML:1.0:am:unspecified">
     <saml:Subject>
       <saml:NameIdentifier
        Format="urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified"
        NameQualifier="http://address.training.ibm.com">
         admin
       </saml:NameIdentifier>
       <saml:SubjectConfirmation>
         <saml:ConfirmationMethod>
            urn:oasis:names:tc:SAML:1.0:cm:sender-vouches
         </saml:ConfirmationMethod>
       </saml:SubjectConfirmation>
     </saml:Subject>
     <saml:SubjectLocality IPAddress="127.0.0.1"/>
   </saml:AuthenticationStatement>
 </saml:Assertion>
```

Analyze the SAML assertion and select the correct option.

A. The DataPower appliance firmware version 5.0.0.x only supports SAML **Assertion** version 2 and greater.

B. The **Assertion** element defines the SAML assertion as version 2.
The **NameIdentifier** for user authentication for this SAML example is `admin`.
The **SubjectConfirmation** element directs confirmation to the oasis namespace.

C. The **Conditions** element defines a window of time in which this statement is valid.
Within the authentication statement, the **Subject** element describes the identity of the client through a name identifier element.
The **SubjectConfirmation** element describes which party backs up the claim.

D. The **Conditions** element defines a window of time in which this statement is expired.
Within the authentication statement, the **Subject** element describes the login information into the backend authentication server.
The **SubjectLocality** element describes the location of the correct IP Address.

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

NO.42 A solution implementer needs to immediately quiesce a DataPower appliance in the event of a power supply failure. How can the solution implementer satisfy this requirement?

A. Configure an Event Filter for the power supply failure event to execute the "appliancequiesce" command.

B. Configure an Event Trigger for the power supply failure event to execute the "appliancequiesce" command.

C. Configure an EventSubscription for the power supply failure event to execute the "appliance-quiesce" command.

D. Create a Scheduled Processing Rule that parses the system log to execute the SOMA request to quiesce the appliance.

Answer: B

NO.43 A solution implementer needs to set up a DataPower Integration XI52 Appliance in a data center with the firmware release 5.0.0.x.

The appliance was shipped with the newer 5.0.0.y firmware. The solution implementer needs to install the older release 5.0.0.x firmware.

The company maintains all firmware images on an internal server at http://repository. Which CLI command sequence should the solution implementer use to achieve this firmware version downgrade?

A. xi52# su admin xi52# flash xi52(config-flash)# copy http://repository/5.0.0.x.scrypt3 image:5.0.0.x.scrypt3 xi52(config-flash)# boot 5.0.0.x.scrypt3 rollback

B. xi52(config)# flash xi52(config-flash)# copy http://repository/5.0.0.x.scrypt3 image:5.0.0.x.scrypt3 xi52(config-flash)# boot rollback

C. xi52# configure terminal xi52(config)# copy http://repository/5.0.0.x.scrypt3 image:5.0.0.x.scrypt3 xi52(config)# flash xi52(config-flash)# boot image 5.0.0.x.scrypt3

D. xi52# configure terminal xi52(config)# copy http://repository/5.0.0.x.scrypt2 image:5.0.0.x.scrypt2 xi52(config)# flash xi52(config-flash)# boot image 5.0.0.x.scrypt2

Answer: C

NO.44 A company is receiving digitally signed SOAP/HTTPS messages to process payment transactions from its business partner and verifies those messages using the Verify action. There is also a requirement to use the signing certificate sent by the partner to encrypt the confidential response message from the company back to the partner. To satisfy this requirement, the solution implementer creates an Encrypt action with the 'Use Dynamically Configured Recipient Certificate' parameter to 'on'. Which statement related to the scenario above is false?

A. The certificate created in the 'Recipient Certificate' field takes precedence over the dynamic certificate inputoption.

B. The encrypt action will use the certificate defined in the variable var://context/transaction/encrypting-cert to encrypt the message.

C. The dynamic certificate used to encrypt the outgoing message can be user-defined using the syntax 'name:CertificateObjectName'

D. The public certificate used to encrypt the outgoing message will be automatically extracted from the incoming signed message while the signature is verified in the Verify action.

Answer: A

NO.45 A solution implementer is tasked with securing a backend web service by creating an externally advertised web service interface that will: ?easilyadapt to any backend changes. ?conform to the backend service Web Service Description Language (WSDL) document. ?monitor and control message traffic based on consumer and requested resources to the WSDL operation level. What DataPower service should the solution implementer configure to satisfy these requirements?

A. Web service proxy using the WSDL with a dynamic backend.

B. Web application firewall with operations imported directly from the WSDL.

C. Multi-protocol gateway using a WSDL with a sign/verifyactions.

D. Loopback XML firewall with a user agent subscribed to a WSDL.

Answer: A

NO.46 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 HeaderConversion 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 bothIMS headers and payload to ASCII encoding

D. Converts both IMS headers and payload to EBCDIC encoding

Answer: B

NO.47 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 JSONxformat. 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

NO.48 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

NO.49 A solution implementer needs to configure SSL mutualauthentication between DataPower and a secure backend server. The secure backend server requires the client to send a certificate for authentication. What step must the solution implementer take to allow SSL mutual authentication when DataPower acts as theclient in this scenario?

A. Set the ciphers list to "HIGH" in the crypto profile.

B. Configure the SSL proxy profile to be in "two-way" mode.

C. Configure an identification credentials object to allow the verification of client identity.

D. Enable the "Permit Connections to Insecure SSL Servers" setting in the SSL proxy profile.

Answer: C

NO.50 A solution implementer needs to configure a front side handler in a multi-protocol gateway service thatonly 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

NO.51 A solution implementer has been taskedwith 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

NO.52 Which XML document is valid according to XML specifications?

A.

```
<a>
 <b>
  <l e="w">
   <a>
    <s>
     <i>
      <e r="e"/>
     </i>
    </s>
   </a>
  </w>
  </e>
  </l>
 </b>
</a>
```

B.

```
<m>
 <a>
  <d/>
 </a>
 <m>
  <i>
   <n>
    <e d="e"/>
   </n>
  </i>
 </m>
 </a>
 <d/>
 </a>
</m>
```

C.

```
<w>
 <a>
  <s>
   <i>
    <t>
     <a>
      <c/>
     </a>
     <r>
      <o/>
     </r>
     <a/>
     <c/>
    </a>
    </t>
   </i>
  </s>
 </a>
</w>
```

D.

```
<a>
 <m>
  <a>
   <n/>
  </a>
  <p>
   <l>
    <a>
     <n/>
    </a>
    <c/>
    <a n="a"/>
   </l>
  </p>
  <a>
   <n/>
  </a>
 </m>
</a>
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: D

NO.53 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.
```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
        xmlns:dp="http://www.datapower.com/extensions"
        xmlns:dpconfig="http://www.datapower.com/param/config" version="1.0"
        extension-element-prefixes="dp dpconfig">
    <xsl:param name="dpconfig:payload-type" select="''"/>
    <xsl:template match="/">
        <xsl:if test="$dpconfig:payload-type = 'true'">
            <xsl:copy-of select="."/>
        </xsl:if>
    </xsl:template>
</xsl:stylesheet>
```

B.
```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
        xmlns:dp="http://www.datapower.com/extensions"
        xmlns:dpconfig="http://www.datapower.com/param/config" version="1.0"
        extension-element-prefixes="dp dpconfig">
    <xsl:template match="/">
        <xsl:param name="dpconfig:payload-type" select="''"/>
        <xsl:if test="$dpconfig:payload-type = 'true'">
            <xsl:copy-of select="."/>
        </xsl:if>
    </xsl:template>
</xsl:stylesheet>
```

C.
```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
        xmlns:dp="http://www.datapower.com/extensions"
        xmlns:dpconfig="http://www.datapower.com/param/config" version="1.0"
        extension-element-prefixes="dp dpconfig">
    <xsl:param name="payload-type" select="''"/>
    <xsl:template match="/">
        <xsl:if test="$payload-type = 'true'">
            <xsl:copy-of select="."/>
        </xsl:if>
    </xsl:template>
</xsl:stylesheet>
```

D.
```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
        xmlns:dp="http://www.datapower.com/extensions"
        xmlns:dpconfig="http://www.datapower.com/param/config" version="1.0"
        extension-element-prefixes="dp dpconfig">
    <xsl:template match="/">
        <xsl:param name="payload-type" select="''"/>
        <xsl:if test="$payload-type = 'true'">
            <xsl:copy-of select="."/>
        </xsl:if>
    </xsl:template>
</xsl:stylesheet>
```

A. Option A
B. Option B
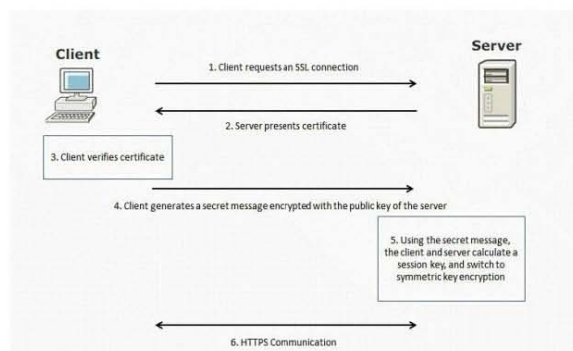C. Option C
D. Option D
Answer: A

NO.54 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
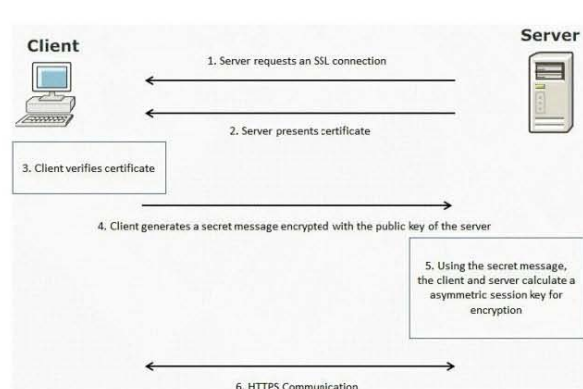*Answer:* C

NO.55 When establishing server-side SSL authentication for an SSL connection, which one of the following sequence is used to establish a successful connection?
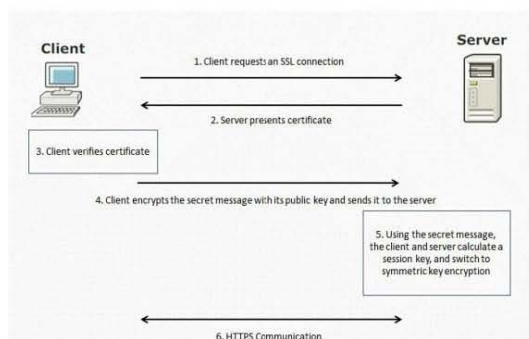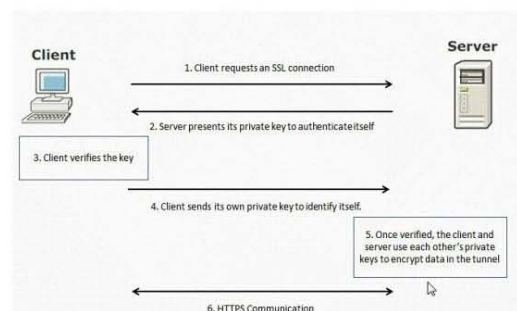

A. Option A
B. Option B
C. Option C
D. Option D
Answer: A

NO.56 A solution implementer has created a multi-protocol gateway to pass messages to a backend server. The complete contents of all request messages should be logged; performance is a high priority but the transaction should not fail if the log server is down. Which logging mechanisms should the solution implementer use to satisfy both requirements?
A. Add an SQL action to the start of the request rule for the message that uses an INSERT statement.
B. Add a Log action to start of the request rule for the message and setthe Asynchronous option to

On.
C. Add an MQ Log Target for the request message with an Object Filter referencing the service handling the request.
D. Add an Extract action to the start of the request rule for the message setting the XPath field to "/" toextract the complete request message.
Answer: B

NO.57 In the Configured Rules section of the Policy Editor, two request rules are listed, Rule_One, followed by Rule_Two, and both use the same matching rule.

	Configured Rules		
Order	Rule Name	Direction	Actions
⇧⇩	Rule_One	Client to Server	⬦
⇧⇩	Rule_Two	Client to Server	⬦

What occurs when a message that satisfies the matching rule is received?
A. Only Rule_One will beexecuted since it is the first rule that matches the request.
B. Rule_One will be executed, followed by Rule_Two, since all rules that satisfy the match are executed.
C. This policy will fail during execution, since it cannot be determined which rule should be executed.
D. The policy will not be applied, since the Policy Editor will not allow a configuration of rules that have the same match.
Answer: A

NO.58 A company wants to inform the consumers of their services whether the DataPowerprocessing 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 informthe consumer whether the processing policy failed in the request or the response. What extension function should the solution implementer use to implement the requirement?
A. accepting()
B. requesting()
C. responding()
D. catch(rule-id)
Answer: C

NO.59 An multi-protocol gateway (MPGW) service is created to process a request message containing values for the MQMD.ReplyQ andMQMD.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 a direction 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 a direction as "back"

C. Using XSLT, inject service virtual headers named "ReplyToQ" and "ReplyToQM" with the value of an empty string inthe response rule as shown 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 shown below:

<dp:set-request-header name="'ReplyToQ'" value="' '"/>

<dp:set-request-header name="'ReplyToQM'" value="' '"/>

Answer: C

NO.60 Select the appropriate IBM WebSphere DataPower SOA Appliance based on the following requirements/specified use case: ?Used only for development and test environments ?Runs under a VMware hypervisor ?Does not require Hardware Security Module (HSM) support ?Does not require hardware acceleration support for cryptographic operations

A. B2B Appliance XB62

B. Service Gateway Appliance XG45

C. Integration Appliance XI52

D. Integration Appliance XI52 Virtual Edition

Answer: D

NO.61 An organization has isolated environments for development, functional, integration and performance testing. Each environment includes at least one DataPower appliance, client, and several instances of backend systems. A solution implementer has made changes to a DataPower service in the development environment that needs to be promoted to other testenvironments for further testing. During migration, environment specific values must be changed in order for the configuration to integrate with the correct backend systems in the target environment. What options does the solution implementer have to automate this migration? (choose three)

A. Use the WebGUI to change environment specific values and then export the configuration.

B. Use the checkpoint function of the appliance to save copies of configuration for specific target environments.

C. Take a secure backup of the appliance and secure restore the configuration on the target appliance.

D. Use the Deployment Policy object to change environment specific values at the time of import at the target appliance.

E. Use the Deployment Policy object to changeenvironment specific values at the time of export at the source appliance.

F. Use an external script to search and replace environment values. Then use the script to push the configuration via CLI or XML Management Interface.

Answer: D,E,F

NO.62 A solution implementeris creating a multi-protocol gateway to proxy SFTP server requests. An AAA Policy is configured on the SFTP front side handler to provide user authentication for the SFTP

connection. Which Extract Identity method should the solution implementer configurein the AAA Policy to extract the SFTP user's credentials?

A. Client IP Address method.

B. Processing Metadata method, specifying the sftp-metadata metadata item.

C. Processing Metadata method, specifying the ssh-password-metadata metadata item.

D. CustomTemplate method, specifying a url to a custom stylesheet that will determine the credentials.

Answer: C

NO.63 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 fromeach 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

NO.64 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 associatedpublic 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?

```
C A.    <?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>off</ExportKey>
                            <GenSSCert>on</GenSSCert>
                            <ExportSSCert>on</ExportSSCert>
                            <GenObject>off</GenObject>
                        </Keygen>
                    </dp:do-action>
                </dp:request>
            </env:Body>
        </env:Envelope>
```

```
C B.    <?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:set-config>
                        <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>off</ExportKey>
                            <GenSSCert>on</GenSSCert>
                            <ExportSSCert>on</ExportSSCert>
                            <GenObject>off</GenObject>
                        </CryptoKey>
                    </dp:set-config>
                </dp:request>
            </env:Body>
        </env:Envelope>
```

C.
```xml
<?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
<?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

NO.65 A solution implementer has configured a processing policy that executes a stylesheet with the following code snippet:

```
<xsl:variable name="MQMPHeader" select="dp:request-header('MQMP')"/>

<xsl:variable name="myprop">
    <xsl:if test="string-length($MQMPHeader) &gt; 0">
        <xsl:value-of select="dp:parse($MQMPHeader)/MQMP/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

NO.66 A company has exposed aweb service to both internal and external clients. Requests from internal clients are sent in plain text and requests from external clients are encrypted in accordance with the WS-Security specification. A single web service proxy has been created using the WSDL that describes the web service. How can the solution implementer accommodate both the plain text and encrypted requests in the same web service proxy?
A. Add a Decrypt action to the Default Request Rule, with a Certificate object that is associatedwith the external client's private key.
B. Provide the company's public certificate to the external client for use in encryption, create a Crypto Key object that points to the company private key, and set the Decrypt Key at the proxy level.
C. Provide thecompany's public certificate to the external client for use in encryption, create a Crypto Key object that points to the company's public certificate, and use it to add a Decrypt action to the Default Request Rule.
D. Create a Crypto Certificate object using the external client's public certificate, create a Crypto Validation Credential (valcred) using the Crypto Certificate object, and add a Decrypt action that uses valcred to the Default Request Rule.
Answer: B

NO.67 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

NO.68 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 consumersthe 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

NO.69 A solution implementer has created a Deployment Policy to scan through configuration objects when they are imported and to remove any references to appliance specific settings such as the Ethernet addresses. Which of the following Deployment Policy settings would provide this functionality? (choose two)

A. A Filtered Configuration with a list of the objects that are to be included.

B. A Filtered Configuration with a list of the objects that are to be excluded.

C. A Rejected Configuration with a list ofthe objects that must be rejected during import.

D. A Modified Configuration with rules specifying Delete Configuration for the object references to be removed on import.

E. An Accepted Configuration with a list of the correct values for the properties forany named objects that will be updated during import.

Answer: B,D

NO.70 A solution implementer is debugging a web service proxy which communicates with a backend service http://server1:9092/myserv. The irregular performance to the backend service cannot be explained so a packet capture is run to dig deeper into the issue. The results need to be stored in a file called packet-capture. Also, the solution implementer wants to capture data only related to the specific backend service host and across all interfaces. What CLI syntax should the solution implementer use and how can the packet capture be analyzed?

A. packet-capture temporary:///packet-capture -1 10000 9000 and analyze using any text editor or word processor

B. packet-capture temporary:///packet-capture -1 10000 9000 "host server1" and analyze using any 'pcap' compliant application, such as 'tcpdump' or 'Wireshark'.

C. packet-capture-advanced all temporary:///packet-capture -1 10000 9000 "host server1" and analyze using any 'pcap' compliant application, such as 'tcpdump' or 'Wireshark'.

D. packet-capture-advanced all temporary:///packet-capture -1 10000 9000 "host server1" and analyze the packet capture using the Troubleshooting section in the DataPower WebGUI.

Answer: C

NO.71 An operations team is reporting intermittent network connectivity problems between DataPower and a specific backend IP address. Network firewalls are configured to allow traffic and thereare no known problems on the network. How can the solution implementer troubleshoot this behavior?

A. There is no network load balancer used behind DataPower. Install a network load balancer.

B. The backend system may be rejecting all TCP packets. Apply the latest fixpacks and restart the server.

C. A DNS host name may be used for connecting to the backend system. Intermittent errors could be caused due to the DNS names not being resolved. Use a host alias instead.

D. Conflicting network routes in the appliance may have been defined which may be causing intermittent network connections. Run "show route" command on the network and analyze the configuration.

Answer: D

NO.72 Select the appropriate IBM WebSphere DataPower SOA Appliance based on the following requirements/specified use: ?Service level management and monitoring ?Intelligent load distribution and dynamic routing ?Entry-level device, slim footprint (1U form) ?Does not need IMS Connect or SFTP support

A. B2B Appliance XB62

B. Integration Appliance XI52

C. Blade Integration Appliance XI50B

D. Service Gateway Appliance XG45

Answer: D

NO.73 Which of the following SOAP messages is valid according to the SOAP specification?

A.

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
        <soap:Header>
                <a:id xmlns:id="http://www.ibm.com/identify">00230-1</id>
                <b:polling xmlns:polling="http://www.ibm.com/poll" env:role="http://www.ibm.com/logger" env:mustUnderstand="true">
        </soap:Header>
        <soap:Body>
                <getProduct>
                        <Product>WebSphere DataPower</Product>
                </getProduct>
        </soap:Body>
</soap:Envelope>
```

B.

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
        <soap:Header>
                <a:id xmlns:id="http://www.ibm.com/identify">00230-1</a:id>
        </soap:Header>
        <soap:Body>
                <items:getProduct>
                        <items:Product xmlns:items="http://www.ibm.com/categories">WebSphere DataPower</items:Product>
                </items:getProduct>
        </soap:Body>
</soap:Envelope>
```

C.

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
        <soap:Header>
                <id>00230-1</id>
        </soap:Header>
        <soap:Body>
                <items:getProduct xmlns:items="http://www.ibm.com/categories">
                        <items:Product>WebSphere DataPower</items:Product>
                </items:getProduct>
        </soap:Body>
</soap:Envelope>
```

D.

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
        <soap:Header/>
        <soap:Body>
                <items:getProduct xmlns:items="http://www.ibm.com/categories">
                        <items:Product>WebSphere DataPower</items:Product>
                </items:getProduct>
        </soap:Body>
</soap:Envelope>
```

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

D. Option D

Answer: D

NO.74 A solution implementer needs to add custom headers required by the back-end system to all request messages. A stylesheet based Transform action is used to add the necessary headers. Which DataPower capabilities can the solution implementer use to verify that the requiredheaders have been added properly? (choose 2)

A. The Headers tab in the service to view the Header Injection parameters.

B. The multi-step probe to check the values in the Headers tab before and after the Transform action.

C. Debug logging at the backendservice to confirm that the necessary header values have been added.

D. <xsl:message> to print the header values to the audit log file and check the audit log file during testing.

E. <xsl:message> to print the header values to the system log file and checkthe system log file during testing.

Answer: B,E

NO.75 The solution implementer is configuring a multi-protocol gateway service to parse the following message.

```
{
    "authenticate": "",
    "username": "joe.blog@server.com",
    "password": "password12"
    "resource": "AccountHistory"
}
```

What request type should the solution implementer choose?

A. XML

B. JSON

C. JSONX

D. Pass through

Answer: B