Vendor: IBM

Exam Code: C2180-376

Exam Name: IBM WebSphere MQ V7.0 Solution Design

Version: Demo

QUESTION 1
Which new feature in WebSphere MQ V7.0 needs to be taken into account when WebSphere MQ solutions are deployed into mixed z/OS and distributed environments?

A. Queue sharing groups are now available between z/OS and other platforms; however, at least one queue manager in the group must still be hosted on z/OS.

B. The use of WebSphere MQ Explorer for the administration of z/OS based queue managers no longer requires a license for the Client Attachment Feature (CAF) for a limited number of users.

C. WebSphere MQ Client applications from distributed environments can now directly connect to z/OS queue managers; the Client Attachment Feature (CAF) is no longer required.

D. A WebSphere MQ Client implementation on z/OS is now available, so that full WebSphere MQ no longer needs to be installed on all z/OS systems that want to participate in message queuing.

Correct Answer: B

QUESTION 2
An application queue is triggered for trigger type of DEPTH. Following this, what action should the job or program that was started as a result of the trigger take before it ends, so that the queue will be triggered again the next time that trigger depth (TRIGDPTH) is reached?

A. It needs to use MQSET or an ALTER QLOCAL command to reset triggering (TRIGGER) for the queue.

B. It needs to reset trigger depth (TRIGDPTH) for the queue through an MQSET or ALTER QLOCAL command.

C. It needs to reset trigger depth (TRIGDPTH) and triggering (TRIGGER) for the queue, using MQSET or an ALTER QLOCAL command.

D. No action needs to be taken. The queue manager will create the next trigger message when the current depth of the queue once again reaches trigger depth (TRIGDPTH).

Correct Answer: A

QUESTION 3
An application is required to retrieve rows from a relational database table and send them across WebSphere MQ to a remote queue manager, where a receiving application consumes them. After a successful MQPUT of a message, the corresponding row is to be deleted from the database. It is intended to run this application using the free WebSphere MQ Client. The delivery of each message is to be guaranteed. Which of the following is true about this implementation?

A. It cannot be done using the free WebSphere MQ Client; the Extended Transactional Client is required, since two phase commits are needed for this solution.

B. It cannot be done using the free WebSphere MQ Client; a local queue manager is required to support the guaranteed delivery of the messages.

C. This solution can be implemented using the free WebSphere MQ Client, provided that the receiving application can recognize and handle repeated delivery of the same message.

D. This solution cannot be implemented using the free WebSphere MQ Client; persistent messaging is not supported by the free WebSphere MQ Client.

Correct Answer: C

QUESTION 4
A solution developer is writing a C language application on a UNIX platform. There is a requirement for the transactions to be processed within syncpoint control. What is the MINIMUM required MQ component on the application platform to achieve this functionality?

A. WebSphere MQ Client Installation
B. WebSphere MQ Extended Transactional Client Installation
C. WebSphere MQ Server Installation
D. WebSphere MQ Server Installation with the XA capabilities configured

Correct Answer: A

QUESTION 5
A master data management solution has been implemented for the enterprise. Updates with customer and product data need to be distributed to several applications. What is the BEST approach given that not all applications might be interested in every customer type?

A. Use the publish/subscribe paradigm.
B. Receive updates on application-specific queues. Message properties and selectors should be used for filtering.
C. Browse a common queue for updates.
D. Use a request-reply pattern and query the MDM (Master Data Management) application.

Correct Answer: A

QUESTION 6
A new WebSphere MQ application with high volume requirements is being designed to run on Solaris. The solution designer is concerned about the performance of the application. The WebSphere MQ for Solaris V7 Performance Evaluation Report SupportPac provides all but one of the following types of information to the solution designer. Which is NOT discussed in this document?

A. Suggestions for tuning WebSphere MQ
B. Information that can be used to size the company new application Information that can be used to size the company? new application
C. Evaluation of the relative cost of one WebSphere MQ API vs. another in different scenarios
D. Evaluation of the relative cost of persistent messages vs. nonpersistent messages in different scenarios

Correct Answer: C

QUESTION 7
Which of the following should generally be avoided if an application is being designed for optimal efficiency?

A. Make messages nonpersistent if they do not need to be recoverable.
B. Code programs to open and close queues, or connect and disconnect from the queue manager only once, if the queues or connection will be used again.
C. Bundle the data to be transmitted into as few messages as possible (e.g., rather than sendinga hundred 1MB messages, send one 100MB message).
D. Group a batch of messages within a unit of work where appropriate, so that they can be committed all at once (e.g., get and put messages under syncpoint and commit them in groups of 10, rather than committing them individually).

Correct Answer: C

QUESTION 8
In designing a solution with availability in mind, the designer is considering the following two alternatives, one using a cluster queue and the other using a shared queue. In each scenario, Queue Managers QMA and QMB will both be capable of running Application A. In the first scenario, Application A will run on QMA and QMB on Windows accessing cluster queue QA. In the second scenario, Application A will run on QMA and QMB on z/OS accessing shared queue QA. Which of the following describes the availability scenarios in the situation where QMA fails?

A. For Windows, the delivered messages on QA that Application A on QMA did not get to process are available for processing by Application A on QMB
B. For z/OS, the delivered messages on QA that Application A on QMA did not get to process are available for processing by Application A on QMB
C. For Windows, messages from QA that were in flight on QMA when it failed are made available for

processing on QMB

D. For z/OS, messages from QA that were in flight on QMA when it failed are unavailable for processing by QMB

Correct Answer: B

QUESTION 9
A solution designer is evaluating distribution scenarios and wants to understand the circumstances where messages are not delivered as expected. Which of the following are reasons that a message is placed on the DLQ?

A. A trigger monitor is unable to start the triggered program
B. The destination queue is full when the program puts the message to the local queue
C. The queue manager is quiescing when the program puts the message to the queue
D. A sending message channel agent is unable to perform data conversion when required for the message
E. The program tries to put a message to an invalid local queue

Correct Answer: AD

QUESTION 10
An organization has a widely distributed online environment, where applications are connected via WebSphere MQ messaging. A business requirement is brought forward that certain mission critical applications record audit trail data which is to be collected in a central location. No information can be lost. A central data warehouse must be loaded daily with this information as soon as possible after end of business. Which of the following proposed solutions is best in terms of the requirement, reliability and overall performance? The audit trail data is:

A. written to a file on the local file system and transmitted to the central audit trail server via reliable file transfer over WebSphere MQ.
B. sent as a persistent WebSphere MQ message and forwarded to the queue manager of the central server asynchronously.
C. inserted into a central database table via a remote access database client under control of the local WebSphere MQ transaction.
D. inserted into a local database table under two phase commit using WebSphere MQ as the transaction manager and a bulk update is performed at end of day.

Correct Answer: B

QUESTION 11
A suite of server applications is to be designed to support the graceful shutdown capabilities of WebSphere MQ implemented via the ail ifA suite of server applications is to be designed to support the graceful shutdown capabilities of WebSphere MQ implemented via the mail if quiescing feature. Which of the following best describes the use of this feature?

A. Applications that have this feature activated can request an extra grace period of a configurable length that will allow them to complete critical processing before the queue manager will disconnect them.
B. Applications using this feature will be informed of the queue manager quiescing via a completion code of MQCC_FAILED and a reason code of MQRC_Q_MGR_QUIESCING (or MQRC_CONNECTION_QUIESCING) and will be disconnected automatically. Applications are expected to periodically attempt reconnection.
C. Using FAIL_IF_QUIESCING options where valid with MQI calls, an application can finalize MQ processing, avoiding loss of data, before the queue manager is shut down.
D. When a queue manager is configured with the FAIL_IF_QUIESCING option and is being shut down, it will reject all MQI calls with a completion code of MQCC_FAILED and a reason code of MQRC_Q_MGR_QUIESCING (or MQRC_CONNECTION_QUIESCING) in order to assure fast and reliable termination.

Correct Answer: C

QUESTION 12
The topic object for the topic x/y is defined with WILDCARD=PASSTHRU. Which of the following is the most appropriate use of a wildcard for this topic?

A. Subscribe to topic x/y/#
B. Publish the information to topic x/y/#
C. Publish the information to topic x/y/+
D. It is not possible to use a wildcard with this topic

Correct Answer: A

QUESTION 13
A company has an MQI application on Windows that continuously browses a queue to identify a message before removing it for processing. The application has only one program reading the queue. The company is experiencing increased volumes, and there is a need to add additional instances of the browsing program. Which of the following options could help with splitting and managing the workload across the multiple browsing programs?

A. Use browse with lock
B. Use browse with message under cursor
C. Use browse with priority sequencing
D. Use MQ cooperative browsing optionsUse MQ? cooperative browsing options
E. Share an object handle across the programs

Correct Answer: AD

QUESTION 14
Business owners want to allow an existing application to be easily portable to any of four Linux servers in their data center. For this they want the four queue managers on these servers to be changed to have the same name. What must be the response of the WebSphere MQ Solution Designer?

A. There is no problem.
B. Queue managers cannot be renamed, so this can only be done by recreating the queue managers. Beyond that, there is no problem.
C. It is possible to define queue managers with identical names in a network, but it is not recommended.
D. It cannot be done. All interconnected queue managers must have unique names.

Correct Answer: C

QUESTION 15
A manufacturing company is looking to provide its customers an online version of its order maintenance application. Customers will be able to check status, update the order, or delete the order. The existing solution is currently WebSphere MQ based, and the online interface will have strict performance requirements. If the customer updates or deletes an order, the message cannot be lost. Which one of the following solutions will BEST meet the requirements stated?

A. Ensure the queue data and logs are located together on the fastest disk possible
B. Alter the channel to set NPMSPEED(FAST), and send the messages down multiple channels.
C. Port the existing application to z/OS which has the highest performance and availability qualities of service
D. Design the query and modify operations to use nonpersistent and persistent messages respectively, and utilize two phase commit only where Necessary

Correct Answer: D

QUESTION 16
The HTTP bridge included with WebSphere MQ V7.0 can be a suitable alternative to the WebSphere MQ Client under certain circumstances. Which of the following is NOT true?

A. It fully supports WebSphere MQ V7.0 publish/subscribe.
B. It conveniently supports WebSphere MQ access from web based applications, including those using asynchronous techniques such as AJAX.
C. It allows applications running on platforms not supported by WebSphere MQ, but has HTTP support, to gain access to a WebSphere MQ network
D. Its use can reduce software distribution and maintenance cost if a large number of WebSphereMQ Client instances would otherwise be required.

Correct Answer: A

QUESTION 17
An application is experiencing issues when processing large volumes of nonpersistent messages. Which of the following is a likely cause of the issue?

A. The BATCHSIZE parameter on the queuemanager was left at the default setting.
B. The WebSphere MQ linear logs are not large enough to handle all of the transactions.
C. The WebSphere MQ circular logs are not large enough to handle all of the transactions.
D. The application is processing in syncpoint, and has not performed a commit recently.

Correct Answer: D

QUESTION 18
Which one of the following is NOT a valid verb for the WebSphere MQ Bridge for HTTP?

A. GET
B. POST
C. BROWSE
D. DELETE

Correct Answer: C

QUESTION 19
A company has an administrative topic on the topic string airlineA/gate. They want to add another node to the topic, airlineA/gate/departure, and are deciding whether the new topic node should also be administrative. Which one of the following is an advantage of using an administrative topic?

A. Ability to check security on the topic
B. Ability to change the topic string later
C. Ability to assign attributes to the topic
D. Ability to view the status of the topic in WebSphere MQ Explorer

Correct Answer: C

QUESTION 20
When using the WebSphere MQ Transport for SOAP, which one of the following parameters are required in specifying a WebSphere MQ URI?

A. priority
B. timeToLive
C. replyDestination
D. connectionFactory

Correct Answer: D

QUESTION 21
An organization uses WebSphere MQ V6 client interfaces extensively for non-critical processing. The line of business announces that an increase in transaction rates will be required soon, when a new set of clients will need to be serviced. The application suite has been performing up to expectations so far, but

the new requirements will be problematic in the current environment. Which of the following new features of WebSphere MQ V7.0 can potentially be used to improve throughput for the above scenario?

A. No significant throughput improvements can be achieved with WebSphere MQ V7.0.
B. WebSphere MQ V7.0 Client channels can be configured to compress message data and thus save on network transmission time.
C. WebSphere MQ V7.0 Client channels are significantly faster than their V6 counterparts by default, so the solution designer does not need to consider any functionality changes or examine performance impacts with the new traffic.
D. WebSphere MQ V7.0 Clients can be configured to pool connections, to send messages without waiting for acknowledgement from the queue manager, and to asynchronously receive and cache incoming messages, before they have been requested by the receiving applications.

Correct Answer: D

QUESTION 22
A solution designer is looking to implement a robust failover mechanism as part of a solution, and has decided on utilizing HACMP on AIX. What must be considered when designing the application?

A. Application log and state information should be stored on shared disk.
B. WebSphere MQ clustering should be utilized to cluster the queues between the two server nodes.
C. The architecture should be designed to process duplicate transactions in cases where a failover needs to occur.
D. The application needs to be designed to run on multiple servers, and needs to handle heartbeats between application instances.

Correct Answer: A

QUESTION 23
An application creates documents in PDF format, which are subsequently transmitted via WebSphere MQ to a number of other servers in the network. Each server runs its own queue manager. The documents received by some servers are consistently corrupted, whereas on other servers the documents are intact. Other message traffic seems unaffected. What is the most likely source of this problem?

A. The environment variable MQCCSID specifies an incorrect value on the affected servers.
B. Incompatible message compression parameters are configured on the sending and receiving channel agents.
C. The network connection to the affected servers is unreliable and a message retry exit was not specified on the sending channel agent.
D. The affected servers run different CCSIDs from the servers creating the documents and the message descriptor specifies MQMD.Format as QSTR? causing message conversion.?QSTR? causing message conversion.

Correct Answer: D

QUESTION 24
An application has to set a unique ID (MQCHAR48) in each message. What is the best place to store this ID?

A. Message Properties
B. MQMD.MsgId
C. MQMD.UserIdentifier
D. MQMD.ApplIdentityData

Correct Answer: A

QUESTION 25
An application is using the WebSphere MQ V7.0 MQI to read a message that has been created using JMS on a WebSphere MQ V6 queue manager. How can the developer access the JMS user defined

properties?

A. Use the MQGMO_PROPERTIES_IN_HANDLE option and provide the MsgHandle when getting messages from a queue.
B. Ask the administrator to set PROPCTL to COMPAT on the receiving channel, so the MQRFH2 header will be transformed into message properties.
C. Read the whole message and parse the MQRFH2 header, because the message has been created using a previous version of the JMS API.
D. Read the whole message and convert the MQRFH2 header using the MQMHBUF function, because the message has been created using a previous version of the JMS API.

Correct Answer: A

QUESTION 26
In a distributed environment, an application that periodically loads large numbers of persistent messages on to a queue is doing so under syncpoint control and issues a commit only after a number of messages have been put. While this application worked perfectly in test environments, there are frequently problems in the production environment. In addition to this new application, several previously unproblematic applications also experience failures such as reason codes MQRC_RESOURCE_PROBLEM or MQRC_BACKED_OUT. Which of the following is the best recommendation to remedy this problem?

A. Increase the maximum queue depth parameter.
B. Increase the log space allocation of the affected queue manager.
C. Return all affected applications to development for more stringent unit testing.
D. Schedule the new application to run only at off-peak times, when the queue manager is not busy.

Correct Answer: B

QUESTION 27
The solution designer is considering how a WebSphere MQ application program can be made aware of problems when a message it created is delivered by a remote channel agent. Which of the following could be used for this purpose?

A. The Completion and Reason code in the sending application program
B. A report message option can be set by the sending application program
C. A GUI utility to display the dead letter queue on the remote queue manager, so that the dead letter header can be browsed.
D. There is no way to determine the success of a put by a remote message channel agent from within the local application program.

Correct Answer: B

QUESTION 28
An application needs to display the last published message every five minutes. What is the best way of doing this?

A. Use MQSUB with SubExpiry set to 300.
B. Use MQSUB with MQSO_PUBLICATIONS_ON_REQUEST option and SubExpiry set to 300.
C. Use MQSUB with MQSO_PUBLICATIONS_ON_REQUEST and call MQSUBRQ every five minutes.
D. Use MQSUB with MQSO_NEW_PUBLICATIONS_ONLY and call MQSUBRQ every five minutes.

Correct Answer: C

QUESTION 29
An application receives messages created on Windows workstations and, after doing transformations, forwards them to a target system running on z/OS. There is a requirement for passing the original username, but information about the date and time associated with the message should be set by the forwarding application. What is the best way of doing this?

A. Use MQPMO_SET_IDENTITY_CONTEXT on Windows andMQPMO_PASS_ALL_CONTEXT in the forwarding application
B. Use MQPMO_DEFAULT_CONTEXT on Windows andMQPMO_PASS_ALL_CONTEXT in the forwarding application
C. Use MQPMO_SET_IDENTITY_CONTEXT on Windows andMQPMO_PASS_IDENTITY_CONTEXT in the forwarding application
D. Use MQPMO_DEFAULT_CONTEXT on Windows andMQPMO_PASS_IDENTITY_CONTEXT in forwarding application

Correct Answer: D

QUESTION 30
An application is replying to a request message, which has properties associated with it. What is the preferred way of creating a reply message?

A. Use action indicator in MQPMO and MQPMO_MD_FOR_OUTPUT_ONLY in the MQPUT options.
B. Use action indicator in MQPMO, provide new MQMD for reply message and use MQPMO_NEW_MSG_ID in the MQPUT options.
C. Reuse the MQMD and honor the report options set in the request message.
D. Create a new MQMD for the reply message and copy the MsgId from the request MQMD structure to the CorrelId field of the reply MQMD.

Correct Answer: A

QUESTION 31
A solution developer needs to promote newly developed applications from the development environment through the user acceptance test environment and into the production environment. Which of the following will best avoid issues with naming conventions for application-owned permanent queues?

A. A standard should be implemented by which all queue names will be prefixed with the queue manager name, which will begin with the strings EV? AT?or RD? respectively, to indicate the current environment. Applications will have to amend queue names accordingly before?EV? ?AT?or ?RD? respectively, to indicate the current environment. Applications will have to amend queue names accordingly before opening the queues.
B. The alias queue names used in the application code will be prefixed with EV? AT?or RD? respectively, so that applications can beThe alias queue names used in the application code will be prefixed with ? EV? ?AT?or ?RD? respectively, so that applications can be promoted between environments without having to change the queue names.
C. WebSphere MQ clustering should be used to resolve queue names and locations dynamically.
D. The names should be identical across the various environments, so that no changes to applications or object definitions between queue managers are required during promotion.

Correct Answer: D

QUESTION 32
A new version of the application running on queue manager LONDON10 in cluster EUROPA is going to be installed. During the scheduled change window, backups will be taken for LONDON10, and then the application will be upgraded. To prepare the queue manager before the start of the maintenance window, a command should be issued for LONDON10 to do which of the following?

A. Stop the connection to cluster EUROPA
B. Resume the queue manager in cluster EUROPA
C. Suspend the queue manager from cluster EUROPA.
D. Refresh the queue manager in cluster EUROPA and include the REPOS(NO) parameter

Correct Answer: C

QUESTION 33
The current depth of the SYSTEM.CLUSTER.TRANSMIT.QUEUE has not dropped below a certain

number for several hours. Which of the following can be used to determine the channel(s) for which these messages are destined?

A. A DISPLAY CHSTATUS command where BATCHES is equal to zero.
B. A DISPLAY CHSTATUS command where XQMSGSA is greater than zero.
C. A DISPLAY QSTATUS command with the QMURID parameter.
D. A DISPLAY QSTATUS command for SYSTEM.CLUSTER.TRANSMIT.QUEUE with theUNCOM parameter.

Correct Answer: B

QUESTION 34
An application is being designed which will send updates about customers to different applications. Given the sensitive nature of the data, the sending application needs to manage which applications receive the datA. Which of the following is the best solution to ensure this?

A. Apply the publish-subscribe paradigm (one-to-many).
B. Each application should have its own queue on which it will listen for updates
C. All applications should listen on the same queue and after processing the message shouldupdate its header so the last application process can remove it from the queue
D. All receiving applications should listen on the same queue and the sending application shouldsend separate copies of the message with attributes which allow the receiving applications tosearch the queue for their own copies.

Correct Answer: B

QUESTION 35
Which one of the following styles of communication supports only one-to-one communication as opposed to one-to-many?

A. Messaging
B. Shared database
C. Publish/Subscribe
D. Remote Procedure Call (RPC)

Correct Answer: D

QUESTION 36
A solution designer is looking to implement WebSphere MQ distribution lists for the COBOL application being designed. Which of the following operating systems is not an option for deployment?

A. AIX V6.1
B. z/OS V1.8
C. Windows XP
D. SUSE Linux Enterprise Server V10

Correct Answer: B

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