Vendor: IBM

Exam Code: C2180-377

Exam Name: IBM WebSphere Application Server
Network Deployment V7.0 Core Administration

Version: Demo

Question: 1
An administrator would like to use the Centralized Installation Manager (CIM) to install WebSphere Application Server Network Deployment V7.0 on a remote Solaris host. The Solaris host has been updated with all the required operating system patches. What is the next step the administrator must perform?

A. Configure an installation target for the Solaris host.
B. Download Solaris interim fixes to the CIM repository.
C. Use the Job manager to create a remote installation job.
D. Copy WebSphere Application Server Network Deployment V7.0 software to the Solaris host.

Answer: A

Question: 2
Data replication service (DRS) is turned on for replicating in-memory data among WebSphere processes. During peak load, the developer found an OutOfMemoryError in the log. The developer suggests turning off data replication service (DRS). What services would be impacted?

A. Stateful session EJB persistence and failover.
B. HTTP session persistence and failover.
C. JDBC data source failover.
D. Dynamic cache replication.
E. JVM in memory replication and failover.

Answer: A, B, D

Question: 3
A cluster, Cluster1, contains two servers, Server1 and Server2. Server1 has a weight of 2 and Server2 has a weight of 4. A single web server is used to route HTTP requests to Cluster1. The web server is started and receives 3 HTTP requests for an application deployed on Cluster1. Assuming no session affinity, how many requests will the plug-in route to Server2?

A. 0
B. 1
C. 2
D. 3

Answer: C

Question: 4
A cluster with 5 servers is configured as a member of a service integration bus (SIBus) using the Scalability with high availability messaging engine policy. What are the possible numbers of messaging engines that might be running on an individual server in the cluster?

A. 1
B. 2
C. 3
D. 4
E. 5

Answer: A, B

Question: 5
Which one of the following is a true statement?

A. A cluster can run multiple messaging engines for a single service integration bus (SIBus).
B. A service integration bus (SIBus) destination can only exist on a single messaging engine
C. A single service integration bus (SIBus) can span multiple WebSphere Application Server cells.
D. A WebSphere Application Server Network Deployment cell can only contain a single service integration bus (SIBus).

Answer: A

Question: 6
An administrator wants to run a Web server on an unmanaged node with no administrative process. Which of the following issues result from this configuration?

A. The administrative console will not be able to generate a plug-in configuration file for this Web server.
B. Applications will not be able to use this Web server as a deployment target.
C. The plug-in configuration file must be manually propagated to the Web server host.
D. This Web server will not be able to perform workload management of requests to a cluster of application servers.

Answer: C

Question: 7
An administrator creates a horizontal cluster and deploys an application that uses several EJBs. How can the administrator ensure that EJB client requests are routed to the same node on which the client resides?

A. Enable the prefer local option for the cluster.
B. Set the scope of the data source to node instead of cluster.
C. Disable the ORBs workload management plug-in for each cluster member.
D. Enable stateful session bean failover using memory-to-memory replication.

Answer: A

Question: 8
A user is taken through a series of Web pages in an online store and eventually checks out to complete his purchase. In the event of a server failure, the user should not have to repeat a step that has already been performed. Which session management strategy is best suited if the user cannot tolerate a loss in session information?

A. Database persistence to external datastore
B. Memory-to-memory replication in Both mode
C. Memory-to-memory replication in Client mode
D. Memory-to-memory replication in Server mode

Answer: A

Question: 9
The administrator ran into a memory leak problem. A .phd file was produced when an OutOfMemoryError occurred. Verbose:gc output indicated the heap was exhausted after running a period of 10 hours. Which tool is recommended for analyzing the memory problem?

A. Log analyzer
B. ISA Thread Dump Analyzer
C. Memory Dump Diagnostic for Java (MDD4J)

D. IBM Thread and Monitor Dump Analyzer (TMDA)

Answer: C

Question: 10
Which of the following will force a JVM thread dump.

A. kill -9 <process-id>
B. F SERVERNAME,JAVADUMP
C. Using the wsadmin command prompt:
   jvm = AdminControl.completeServerNameList("type=JVM,process=server1,*")
   AdminControl.invoke(jvm, "dumpAllThreads")
D. Using the wsadmin command prompt:
   jvm = AdminControl.completeServerNameList("type=JVM,process=server1,*")
   AdminControl.invoke(jvm, "dumpThreads")

Answer: D

Question: 11
When configuring a servers diagnostic trace service, in order to have trace level data written to the trace log, which one of the following tasks must be performed?

A. Set the log detail level to fatal.
B. Set the Trace Output Format to Advanced.
C. Set the log detail level to fine, finer, finest or all.
D. Use a trace string specification of com.ibm.*=detail.

Answer: C

Question: 12
As part of a diagnostic data collection plan, an administrator must gather server JVM logs and archive them every week. How can the administrator configure a server so that the logs are available for weekly archiving?

A. Use the Advanced setting for log file formatting and rotation.
B. Use the administrative console to set Runtime messages to Info.
C. Use appropriate settings for log rotation and number of historical logs.
D. Set the archive and log rotation values in the ffdcRun.properties file.

Answer: C

Question: 13
An administrator has been asked by IBM Support to gather diagnostic trace data relevant to a problem involving some components of the application server. How should the administrator prepare to gather the data?

A. Enable the IBM Service log for the server and set the number of historical logs to 10.
B. Enable verbose garbage collection for the server and specify that the data be written to the trace.log file.
C. Configure Diagnostic Trace for the server by selecting that the trace output be written to a file.
D. Configure the ffdcRun.properties file to trace the specific server components and write the data to a memory buffer.

Answer: C

Question: 14
An administrator notices that the <profile_root>/logs directory is filling up with heapdump and javacore files. Before analyzing these files, what should the administrator do to determine which application components might be causing these files to be dumped?

A. Examine the application servers SystemErr.log and look for OutOfMemoryError exceptions and stack traces.
B. Monitor the application servers JVM using Tivoli Performance Viewer and look for steady growth in theheap size.
C. Use the Log Analyzer to view the application servers trace.log file and look for application startup failures.
D. Gather the application servers verbose garbage collection data and look for relatively long garbage collection cycles.

Answer: A

Question: 15
An application server is producing heap dumps. Which tool in IBM Support Assistant (ISA) is used to perform analysis on the heap dump?

A. Log Analyzer
B. ThreadAnalyzer
C. Trace and Request Analyzer
D. Memory Dump Diagnostic for Java

Answer: D

Question: 16
An administrator has defined a connection factory, jms/CF, which is required by an application that runs on a cluster. Three of the clusters four members run the application without error. On the fourth member, a NameNotFoundException is thrown attempting to look up jms/CF. The administrator uses the dumpNameSpace command to examine the namespace of the fourth member and verifies that jms/CF is not in the namespace. What is the most likely cause?

A. The fourth cluster member is running on a different operating system than the other three.
B. The administrator has not defined the jms/CF connection factory at a scope visible to the fourth cluster member.
C. The fourth cluster member has not been selected as a deployment target for the application.
D. The administrator has specified a maximum of 3 connections on the jms/CF connection factory.

Answer: B

Question: 17
Due to network problems, the IBM Support Assistant (ISA) Agent is not available. Which service will be inoperable?

A. Case manager tool
B. Guided troubleshooter
C. Remote debugging, data collection and file transfer
D. WebSphere Application Server Network Deployment V7.0 add-on customization

Answer: C

Question: 18

An administrator has enabled security auditing for the WebSphere Application Server. They wish to view the audit records in order to verify that it is working properly. Which tool would best allow them to view the audit data?

A. IBM Support Assistant using the AuditLogReporter tool
B. wsadmin, using the AdminTask.binaryAuditLogReader command
C. The administrative console - they could invoke the Tivoli Audit Viewer (TAV)
D. The LogAnalyzer from within the Rational Application Developer Assembly and Deploy Tool.

Answer: B

Question: 19
An administrator manages a cell that is configured to use an LDAP server for its user registry. But, there are several cases where he needs certain application servers to authenticate against a file based registry. How can this be accomplished?

A. From the deployment managers administrative console, use the application servers security configuration wizard for each application server to override the cell level registry.
B. In the cell level security configuration panel, define LDAP authentication at the cell scope, and file based registry at the application server scope for the desired application servers.
C. Configure Global security to use an LDAP registry and create a new security domain with a user realm definition for the file based registry and assign it to the desired application servers.
D. Create a global security repertoire that includes a global definition for the LDAP registry as well as entries for each node is the cell. For those nodes that have application servers that require file based registry, include a registry override.

Answer: C

Question: 20
What must an administrator do before he can create method permissions for an Enterprise JavaBean (EJB)?

A. Map role to groups.
B. Define one or more security roles.
C. Map logical role name to runtime role.
D. Exclude a set of EJB methods from access.

Answer: B

Question: 21
A federated cell has two nodes, Node01 and Node02. Global Security is turned on and is using a file based user registry. Node01 has servers A, B, C and D. A developer has deployed a new security check-in application to servers A and D. As a security requirement, this new application is required to use local operating system registry for user authentications. Identify which one of the following is the most direct way to enable this secured application.

A. Migrate user information from operating system registry to LDAP registry.
B. Create a security domain and scope it to application server A and D.
C. Update global security configuration file security.xml with operating system registry definition.
D. Merge operating system registry and file based user registry to a new LDAP and assign the new LDAP to the federated cell.

Answer: B

Question: 22

In a test cell which has WebSphere global security disabled, an administrator has created a service integration bus (SIBus) with security enabled for testing applications that use messaging resources. Now the administrator needs to enable security on the bus for further testing. Which of the following tasks must be performed to enable security on the bus?

A. Enable administrative security for the cell.
B. Configure a separate security domain for the bus.
C. Delete the bus and recreate it with security enabled.
D. Require messaging clients to use SSL protected transports.

Answer: A

Question: 23
The application accesses an external resource using a J2C adaptor. The security credential for the external resource authentication has changed. Which one of the following should be updated?

A. J2C authentication data.
B. Key stores and certificates.
C. Web security trust association.
D. JAAS login module in WebSphere.

Answer: A

Question: 24
An administrator is troubleshooting a communication problem between two application servers, on different nodes (node-A and node-B), within a cell that has administrative security enabled. Based on prior investigation, they believe that the problem involves a missing signing certificate on node-B. What should be done to verify this theory?

A. Manually propagate the key.p12 file for node-B to the plugin directory and restart the application servers.
B. Verify that the CellDefaultTrustStore has the appropriate signing certificates in it and run the syncNode script on node-B.
C. Get a new certificate for the application server from a Certificate Authority and import it into the application servers ServerDefaultTrustStore.
D. Update the NodeDefaultKeyStore for node-B with a new signing certificate, do a Full Resynchronize of the cell, and restart the node agents and application servers.

Answer: B

Question: 25
Which one of the following profile related tasks can only be performed using the manageprofiles command-line facility?

A. Delete a profile
B. Secure a profile
C. Federate a profile
D. Update profile templates

Answer: A

Question: 26
An administrator needs to set up a new employee with administrative access to an existing WebSphere cell. What administrative security roles must the administrator have in order to grant the new employee operator access?

A. The operator role is required to assign another administrator operator access.
B. The administrator must have administrator role access in order to make the new administrator an operator.
C. The administrator must be the primary administrative user in order to grant security roles to new administrators.
D. The Admin Security Manager role is required so that the administrator can assign new users to administrative roles.

Answer: D

Question: 27
A company maintains several different LDAP directory servers to contain a registry of user IDs and passwords. How can an administrator make all of the user IDs and passwords in these directories available to WebSphere security?

A. Configure the LDAP directory servers as generic servers.
B. Configure a federated repository including all of the LDAP directory servers.
C. Configure WebSphere security to authenticate against all of the LDAP servers
D. Configure a standalone LDAP registry for each directory server and enable multiple realms.

Answer: B

Question: 28
In addition to the normal process for assembling an application, which one of the following tasks must be performed if the EAR file contains a Web services-enabled module?

A. Generate EJB resource mappings.
B. Generate deployment code for the application.
C. Redefine the bindings properties.
D. Edit the annotations or deployment descriptors.

Answer: B

Question: 29
It is determined that a single class loader is needed for all of the modules in all of the enterprise applications on an application server. What action should the administrator take to implement this?

A. Set the Classloader policy on the application server to single
B. Set the Classloader policy on the application server to Use an isolated class loader
C. Set each applications EAR class loader policy to Single class loader for application
D. Set each applications WAR class loader policy to Single class loader for application

Answer: A

Question: 30
Which action below must be performed to ensure that requests routed through the Web server can reach a Web application deployed in WebSphere Application Server Network Deployment V7.0?

A. Security is enabled on the administrative console.
B. An updated plugin-cfg.xml is generated and propagated to the Web server.
C. The Web server and the WebSphere Application Server must be installed on the same physical server.

D. The Web server plug-in and the WebSphere Application Server must be installed on the same physical server.

Answer: B

Question: 31
What is the correct console command to execute a wsadmin script file in WebSphere Application Server, ND, V7.0?

A. wsadmin -f <script_file>
B. wsadmin <script_file>
C. wsadmin /file: <script_file>
D. wsadmin @executeScript (script file will be prompted)

Answer: A

Question: 32
To use a message-driven bean (MDB) to communicate with the default messaging provider, the administrator must create which one of the following?

A. JDBC provider
B. JCA resource adapter
C. JMS connection factory
D. JMS activation specification

Answer: D

Question: 33
In a Java EE application, how are EJB resources protected?

A. Security constraints
B. Method permissions
C. Java 2 security policy files
D. Administrative permissions

Answer: B

Question: 34
An application which uses JMS clients will be deployed to a stand-alone application server. Messages will be produced by a session EJB and consumed by a message-driven bean (MDB) via a queue destination. What JMS resources must be configured by an administrator to support this application?

A. Destination, queue point, mediation
B. Destination, connection factory, data store
C. Message points, destination, connection factory
D. Queue, connection factory, activation specification

Answer: D

Question: 35
Applications that need to create additional persistent bindings of objects associated with a specific node can bind those objects under which of the following types of namespace partition?

A. Server roots

B. Cell persistent
C. Node persistent
D. System namespace

Answer: C

Question: 36
Which of the following items best gives a reason to perform an unattended installation of WebSphere Application Server?

A. The installation for the particular target platform is being done for the first time.
B. The installation for the particular target platform has been done before and will be repeated in the future.
C. The installation for WebSphere Application Server would initially not be able to include administrative security.
D. The installation for the particular target platform is expected to require a lot of adjustments to be done over several installation attempts.

Answer: B

Question: 37
Which one of the following statements is true about scoping resources in WebSphere Application Server?

A. When a resource is defined at a more general scope, greater isolation is provided.
B. In the administrative console, All scopes can be selected to create a new resource.
C. Resources that are defined at more specific scopes override duplicate resources that are defined at more general scopes.
D. Resources such as Java Database Connectivity (JDBC) providers, namespace bindings, or shared libraries can only be defined at a single scope.

Answer: C

Question: 38
A developer informs an administrator that a servlet in one of the Web modules of a new enterprise application needs to access code in a native library. The administrator creates a shared library and adds the native library to its Native library path. What else does the administrator need to do to ensure that the servlet can access the native library without risk of an UnsatisfiedLinkError? Using the administrative console, select:

A. Use an isolated class loader for this shared library on the shared library settings page and associate the shared library with the Web modules class loader.
B. Classes loaded with parent class loader first on the settings page for the enterprise applications class loader and associate the shared library with the enterprise applications class loader.
C. Use an isolated class loader for this shared library on the shared library settings page and inform the developer of the name of the shared library so the developer can include it in the appropriate Java code.
D. Classes loaded with local class loader first on the settings page for the Web modules class loader and associate the shared library with the Web modules class loader.

Answer: A

Question: 39

When an administrator creates a service integration bus (SIBus) destination, which one of the following tasks must be performed?

A. Scope the bus destination to a specific cluster.
B. Assign the destination to a specific bus member.
C. Select an appropriate mediation for the bus destination.
D. Create the appropriate message point for the bus destination.

Answer: B

Question: 40
If a deployed application is mapped to a Web server, an updated plug-in configuration file must be generated and propagated. By viewing the plug-in configuration file, how can an administrator determine if the mapping was successful? There will be a:

A. Property element under Transport with a Name attribute equal to the path of the mapped application.
B. URI element under UriGroup with a Name attribute equal to the context root of the mapped application.
C. Server element under ServerCluster with a Name attribute equal to the .ear file of the mapped application.
D. VirtualHost element under VirtualHostGroup with a Name attribute equal to the assigned port number of the mapped application.

Answer: B

Question: 41
When adding a new member to a cluster, why is it necessary for an administrator to select the option for generating unique HTTP ports?

A. To enable encryption over the secure HTTP ports
B. To prevent other applications from using these ports
C. To avoid port conflicts with other servers on the same node
D. To ensure that cluster members on different hosts have unique ports

Answer: C

Question: 42
Aside from the administrative console and the addNode command, what other facilities does WebSphere Application Server provide for federating nodes into cells?

A. wsadmin
B. The administrative agent
C. The Profile Management Tool (PMT)
D. Rational Application Developer Assembly and Deploy Module

Answer: C

Question: 43
A cluster, Cluster1, is a member of the service integration bus (SIBus) Bus1 and the host of a queue destination Destination1. When Cluster1 was added to Bus1, the High availability messaging engine policy was selected. An administrator will deploy an application containing an MDB, MDB1, onto Cluster1. The MDB will listen to Destination1. In order to allow MDB1 instances on all cluster members to get messages from Destination1, the administrator should:

A. enable the option Always activate MDBs in all servers on MDB1s activation specification
B. set the option MDB connections to Parallel on Destination1s MDB properties
C. disable the option prefer local on MDB1 when installing the application
D. set the option Connection proximity to Bus on Bus1s activation specification defaults

Answer: A

Question: 44
A cluster, Cluster1, contains application servers Server1 and Server2. Cluster1 is configured as a member of service integration bus (SIBus) Bus1 using the High availability messaging engine policy. A messaging engine (ME) for Bus1 starts up on Server1, then Server1 crashes. An ME for Bus1 will:

A. already be running on Server2. When Server1 recovers, an ME for Bus1 will start on Server1.
B. start on Server2. When Server1 recovers, a second ME for Bus1 will start on Server1.
C. start on Server2 but fail back to Server1 after Server1 has recovered.
D. start on Server2 and continue running on Server2 even after Server1 has recovered.

Answer: D

Question: 45
An administrator has created a cluster, C1, and configured memory-to-memory HTTP session replication. How can the administrator best ensure that every HTTP session is replicated on all members of the cluster?

A. In the Replication domain settings for the C1 replication domain, set Number of replicas to entire domain
B. In the Replication domain settings for the C1 replication domain, set Number of replicas to 0
C. In the Memory-to-memory replication settings for each member of C1, set Number of replicas to entire domain
D. In the Memory-to-memory replication settings for each member of C1, check Replicate to all members

Answer: A

Question: 46
A J2EE application maintains information in the HTTP session in memory. This information can be recreated, but there is a performance penalty to restore state if a user session fails over to a different cluster member. Which of the following features maximizes the use of information already stored in a server's session?

A. Database persistence
B. Session affinity in Web server plugin
C. Memory-to-memory replication in Both Mode
D. Memory-to-memory replication in Server Mode

Answer: B

Question: 47
A system administrator has successfully installed WebSphere Application Server V7.0 and has run the Installation Verification Tool (IVT) with a success message. Which additional step can be taken to further verify the installation?

A. Check to see if the InstallShield application will run again.
B. Check to see if the installation directory specified exists in the file system.

C. Use a browser to access the launch page of the IBM HTTP Server.
D. Use a browser to access the administrative console and log in successfully.

Answer: D

Question: 48
An administrator wishes to control an Apache Web server on a remote host via the WebSphere Application Server Network Deployment administrative console. What must be done to accomplish this?

A. Configure a web server definition in the administrative console.
B. Configure the Apache administrative process on the remote node.
C. Configure an unmanaged node definition in the administrative console.
D. Configure a managed node on the remote host.

Answer: A, D

Question: 49
A cluster, Cluster1, contains two servers, Server1 and Server2. Server1 has a weight of 20 and Server2 has a weight of 4. A single web server is used to route HTTP requests to Cluster1. The web server is started and receives 4 HTTP requests for an application deployed on Cluster1. If the requests are all part of the same HTTP session, and the first request is routed to Server2, how many equests are routed to Server1?

A. 0
B. 1
C. 2
D. 3

Answer: A

Question: 50
What does backupConfig back up?

A. Log files
B. Profile configuration
C. WebSphere binaries
D. First failure data capture (FFDC) directory

Answer: B

Question: 51
Where can an administrator find binding information for an application?

A. In the IBM extension file
B. In the activation specification
C. In the deployment descriptors
D. Executing the wsadmin command AdminApp.viewBindings (-ApplicationName)

Answer: C

Question: 52
Which of the following statements best describes the type of data collected by request metrics?

A. Monitors health indicators such as CPU usage

B. Provides data for all transactions, without correlation
C. Provides data with respect to pools, queues, and system data
D. Tracks individual transactions, recording the processing time for each component

Answer: D

Question: 53
Which of the following actions would enable the collection of performance data for an application server, given the Performance monitoring Infrastructure (PMI) is not enabled?

A. Using wsadmin, invoke the enablePMICollection operation on the PerfMBean.
B. Using wsadmin, invoke the setInstrumentationLevel operation on the PerfMBean.
C. In the administrative console, on the Performance tab for the server, select the Enable Performance onitoring Infrastructure (PMI) checkbox.
D. In the administrative console, on the Configuration tab for the server, click Performance Monitoring nfrastructure (PMI) under Performance, and then select the Set instrumentation level heckbox.

Answer: B

Question: 54
An application server has runtime provisioning enabled. What is the benefit f it? It:

A. allows shared class cache for runtime classes.
B. reduces server start time and memory footprint.
C. pre-loads all Enterprise Java Beans for the application.
D. enables light-weight runtime configuration service to reduce memory compaction frequency.

Answer: B

Question: 55
An application has poor performance. On examining verbose GC nformation the administrator notices that 70KB objects frequently cannot be allocated due to heap ragmentation, requiring ime-consuming heap compaction. Which of the following is likely to improve performance?

A. Configure more operating system paging space.
B. Increase the size of the large object area (LOA).
C. Increase the size of the thread local heap (TLH).
D. Increase the size of the native heap.
E. Select the Xnocompaction option.

Answer: B

Question: 56
An application spends 90% of its time in a complex servlet and the rest 10%) of time in a short JDBC query. On average, only 10% of the servlets are using database onnections at any time. The pplication starts to perform poorly after a new batch of users are introduced to the system. What easures should the administrator recommend to determine the root cause of the problem?

A. Install Tivoli Performance Viewer (TPV) as IBM Support Assistant (ISA) add-on.
B. View advice messages in Tivoli Performance Viewer (TPV) by clicking the Advisor link.
C. Turn on Performance and Diagnostic Advisor in IBM Support Assistant (ISA) as a collector.
D. Install Tivoli Composite Application Manager (ITCAM) as IBM Support Assistant (ISA) add-on.

Answer: B

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