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IBM C2180-401
IBM WebSphere Application Server Network Deployment V8.5.5 and Liberty Profile, System Administration

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- I appreciate 'Cert Killer' team ability to prepare questions and answers that cover the actual scenario of the exam.

Exam A

QUESTION 1
A system administrator is asked by a development team to monitor the performance of a newly deployed EJB application. The administrator noticed that the heap size of the application server is growing.

What should the administrator do to fix the problem using ORB settings?

A. Use J2EE managed object MBeans.
B. Enable the pass by reference option.
C. Disable the application scoped resources in the application deployment descriptor.
D. Ensure that Process embedded configurations is not selected when exporting the EAR.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
A system administrator has deployed web applications to a clustered environment where database session persistence is configured. The administrator needs to improve the response time and the throughput.

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How can the system administrator do this?

A. Disable server affinity.
B. Configure dynamic caching.
C. Configure a load balancer to spread work between existing web servers.
D. Tune the database session persistence to optimize for failover.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
:http://www.ibm.com/developerworks/websphere/techjournal/1008_genkin/1008_genkin.
html

QUESTION 3
A system administrator is required to create a star topology for multi-cell performance management for three WebSphere Application Server cells.

How should the administrator configure the Application Placement Controller (APC) in a star topology?

Configure the cell custom property Center Cell to:

A. false in all three WebSphere Application Server cells.
B. false in one WebSphere Application Server cell
   Truein the other two WebSphere Application Server cells.
C. true in all three WebSphere Application Server cells.
D. true in one WebSphere Application Server cell
   false in the other two WebSphere Application Server cells.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
:http://www-
01.ibm.com/support/knowledgecenter/SSEQTP_8.5.5/com.ibm.websphere.nd.multiplatform.doc/a e/twve_mcpconfig.html

QUESTION 4
A performance test team was testing the capacity of concurrent users of a web application deployed on a multi-processor server. While testing 250 concurrent users, the administrator discovers connections to the database are failing.

Real 13
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In response, a system administrator increased the connection pool to the maximum limit which the database allows and increased the prepared statement cache size. The test passed, but the application response time was slower.

How should the system administrator tune the data source properties to improve the application response time?

A. Change connection pools purge policy.
B. Decrease connection pool reap time.
C. Decrease number of free pool partitions.
D. Decrease the prepared statement cache size.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
An organization updated their LDAP directories and modified user roles. The roles that were configured to have access to a highly secured enterprise application were deleted and new roles with new names were created. The application then had security related exceptions.

How can a system administrator resolve the exceptions and restore security for the application?

A. Modify the mapping of security roles of the application to the new LDAP roles.
B. Modify the application and remove all security constraints and redeploy the application.
C. Modify the application to have a runas role for each new LDAP role and redeploy the application.
D. Create an administrative authorization group with administrator privileges scoped for the application with an administrative group role for the new LDAP roles.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference:http://www.novell.com/documentation/idmrbpm36/install/data/bb1zmw0.html(See the Role of Administrator).

QUESTION 6
There are many applications deployed in a large WebSphere Application Server cluster. A system administrator is required to give Configuration role access to a developer for a single application deployed in that cluster.

Real 14
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How should the administrator meet this requirement and restrict Configuration role access for a single application?

A. Create a J2C authentication alias for that developer.
B. Create an Administrative user role and provideConfigurationaccess to the developer.
C. Create an Administrative group role and provideConfigurationaccess to the developer.
D. Create an administrative authorization group, scope it only for that application and create an Administrative user or group role to giveConfigurationaccess to the developer.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 7
A web application has a configured session timeout of eight hours and a default LTPA token timeout of two hours. After every two hours, the users have to log in again from their HTTP browser. The system administrator is required to make configuration changes so users only have to log in once, while keeping the above-mentioned timeouts the same. The authentication mechanism available is Kerberos.

How should the administrator do this?

A. Configure the SIP digest authentication.
B. Configure the SPNEGO Web or SPNEGO TAI.
C. Enable Session Management Security Integration.
D. Ensure Web Inbound security attribute propagation is enabled.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 8
How can a system administrator secure a WebSphere Application Server environment to ensure that an application code will not be allowed to access any files in the server's file system?

A. Configure the CSIv2 outbound communications under RMI/IIOP security.
B. Configure the file-based repository and create the fileRegistry.xml file.
C. Enable Java 2 security and configure the app.policy and was .policy files.
D. Use the AdminTask deleteAuthorizationGroup to remove application access.
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Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference:http://pic.dhe.ibm.com/infocenter/adiehelp/v5r1m1/index.jsp?topic=%2Fcom.ibm.wasee .doc%2Finfo%2Fee%2Fae%2Ftsec_plan.html

QUESTION 9

A customer has enabled LTPA as their authentication mechanism and has web resources that are not secured by proper security constraints. A system administrator is required to ensure that all web resources are secured.

How should the administrator accomplish this?

A. Enable "Authenticate when any URI is accessed".
B. Enable "Authenticate only when the URI is protected".
C. Enable "Authenticate only when the URI is protected".
D. Map the application security roles to the configured user registry's groups.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
answer is verified.

QUESTION 10
A newly deployed application has authorization errors when invoking EJB methods from a servlet. An additional review indicates that users are authenticated, but do not have the correct authorization.

How can a system administrator fix the issue ensuring only authorized access?

A. Using the Integrated Solutions Console (ISC), map all security roles to the special subject Everyone.
B. Using the Integrated Solutions Console (ISC), map the security roles that are still not mapped to groups in the current user registry.
C. Edit the application using an assembly tool to add a security constraint for the servlet and reinstall the application.
D. Edit the application using an assembly tool to remove the security constraint defined for the servlet and reinstall the application.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
A system administrator needs to deploy a new enterprise application which requires that application security be enabled, but, the existing applications in the cell cannot be executed with application security enabled. The cell has the global security and Java 2 security disabled.

How can the administrator handle this requirement?

A. Enable Java 2 security for the cell.
   Create a security domain with application security enabled.
   Associate the security domain to the new application.

B. Enable Java 2 security for the cell.
   Create a security domain with application security enabled.
   Associate the security domain to a new cluster to be used to deploy the new application,

C. Enable administrative security for the cell.
   Create a security domain with application security enabled.
   Associate the security domain at the application level for the new application.

D. Enable administrative security for the cell.
   Create a security domain with application security enabled.
   Associate the security domain to the new cluster where the new application is deployed.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference:http://www-
01.ibm.com/support/knowledgecenter/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/csec_sec_m ultiple_domains.html?cp=SSAW57_8.5.5%2F1-8-2-
33-1-0(See the Java 2 security).

QUESTION 12
A system administrator needs to view the list of certificates for unmanaged web server located on a remote system.

How should the administrator do this?

A. View the plugin-cfg.xml
B. Look at the SSL configuration in the httpd.conf
C. Use iKeyman to view the keyring.
D. D. Use the administrative console to check the content of the cell default keystore.
   Real 17
   IBM C2180-401 Exam

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Reference:http://www.cse.yorku.ca/~seela/db2/Content_manager/httpserver.html

QUESTION 13
A system administrator is configuring the security of a new environment. The administrator has been asked to configure one LDAP server that has different sub-trees for business users and administration users.

What should the administrator do to implement the required security configuration?

A. Install and configure a TAI (Trust Association Interceptor)
B. Configure a security domain for the stand-alone LDAP server.
C. Use Federated repositories and configure the supported entity types.
D. Use Stand-alone custom registry and configure the flat file implementation.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
A web application was deployed on a WebSphere Application Server cluster. While users are using the application, one of the cluster servers fails and the users lose their working data.

What can the system administrator configure to ensure users can continue to work if one of the cluster servers fails?

A. An increased session timeout.
B. A cluster of external HTTP servers.
C. A load balancer to spread work between existing servers.
D. A WebSphere extreme Scale HTTP session management.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference:http://websphere.sys-con.com/node/1299059

QUESTION 15
A system administrator has created a cluster containing two servers in a same node. The administrator did not select the option Generate unique HTTP ports during the creation of the cluster members. After the cluster creation, the administrator changed the HTTP port of the second cluster member to 9081.

Testing the servers using the snoop servlet directly to the server's HTTP port, the administrator got the following error message for the second server;

SRVE0255E: A WebGroup/Virtual Host to handle server2:9081 has not been defined

How can the administrator fix this problem?

A. Regenerate and propagate the HTTP plug-in.
B. Add the port 9081 to the default_host alias.
C. Create a new virtual host alias at the cell level for the port 9081.
D. Edit the server.xml for the second server and add the port 9081

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference:http://www-01.ibm.com/support/docview.wss?uid=swg21438842

QUESTION 16
A web application is hosted on an application server that receives HTTP requests from a third party application named myApp. The URIGroup mapping for this application is called default_host_myApp.

The development team asks a system administrator to configure the HTTP plug-in to prevent routing requests to any application server except serverl.

The following exhibit shows the parts of the plugin-cfg.xml file that are relevant for myApp. The UriGroups for other applications are not shown in the exhibit.

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```
1  <VirtualHostGroup Name="default_host">
2      <VirtualHost Name="*:9080"/>
3      <VirtualHost Name="*:9081"/>
4      <VirtualHost Name="*:80"/>
5      <VirtualHost Name="*:9443"/>
6      <VirtualHost Name="*:9444"/>
7      <VirtualHost Name="*:443"/>
8  </VirtualHostGroup>
9  <ServerCluster Name="myCluster">
10     <Server CloneID="a10000001" LoadBalanceWeight="2" MaxConnections="-1" Name="server1">
11         <Transport Hostname="machine1" Port="9080" Protocol="http"/>
12         <Transport Hostname="machine1" Port="9443" Protocol="https">
13         </Transport>
14     </Server>
15     <Server CloneID="b20000002" LoadBalanceWeight="2" MaxConnections="-1" Name="server2">
16         <Transport Hostname="machine2" Port="9081" Protocol="http"/>
17         <Transport Hostname="machine2" Port="9444" Protocol="https"/>
18     </Server>
19  </ServerCluster>
20  <UriGroup Name="default_host_myApp">
21      <Uri Name="/myApp/*"/>
22      <Uri Name="/myAppAdmin/*"/>
23  </UriGroup>
24  <Route ServerCluster="myCluster" UriGroup="default_host_myApp" VirtualHostGroup="default_host"/>
```

What should the administrator do to the plugin-cfg.xml file to ensure that requests for default_host_myApp URIGroup are routed only to machine1?

A. Delete the server tag for CloneId="b20000002"
   Delete all of the tags within the Server tag

B. Delete the UriGroup tag for default_host_myApp
   Delete all of the tags within this UriGroup tag

C. Delete the VirtualHostGroup tag for default_host
   Delete all of the tags within the VirtualHostGroup tag

D. Edit the LoadBalanceWeight forserverl to 20
   Edit the LoadBalanceWeight for server2 to 2

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 17
A system administrator has configured a cluster containing 40 servers. The cluster members all belong to one core group. While examining the log files, the administrator notices that the core group coordinator is consuming abnormally high amounts of memory and CPU resources.

How can the system administrator reduce the memory and CPU resource usage of the core group coordinator?

A. Configure a core group bridge.
B. Configure a second active coordinator
C. Decrease the memory on the machine.
   Real 20
   IBM C2180-401 Exam
D. Move the coordinator to another machine.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 18
A system administrator needs to set a new Liberty profile environment to support an application.

What should the administrator do to enable this environment for high availability and scalability of the application?

A. Define multiple server members in one collective controller.
B. Define multiple servers in a cluster in one collective controller.
C. Define multiple collective controllers within a Liberty collective.
D. Define multiple server members in multiple collective controllers.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 19
A system administrator has added a server cluster as a member of a service integration bus (SIB). The administrator needs to configure one messaging engine for each server in this cluster and to have a failover location for each messaging engine.

What should the administrator do to achieve the required design?

A. Configure a new messaging engine in each server to support failover.
B. Configure the data store for each messaging engine for each server in the cluster.
C. Select scalability with high availability as the messaging engine policy.
D. Create a core group policy to restrict each messaging engine to a particular server.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Reference:http://www-
01.ibm.com/support/knowledgecenter/SSCKBL_8.5.5/com.ibm.websphere.nd.doc/ae/cjt1004_.htm l(second paragraph)

QUESTION 20
Which one of the following options describes the runtime flow starting from the client browser in a clustered WebSphere Application Server Network Deployment topology?

A. HTTP server -> job manager -> admin agent -> HTTP server plug-in
B. Load balancer -> HTTP server -> HTTP server plug-in -> application server
C. Application server -> node agent -> deployment manager -> load balancer
D. Deployment manager -> node agent -> HTTP server plug-in -> HTTP server

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 21
A developer created an enterprise application which contained data source and security role information. The developer asked a system administrator to install this application to an application server where global security is enabled using the Integrated Solutions Console (ISC). A new data source was configured at the server scope for the use of this application. While load testing the application, the developer noticed that the attributes configured on the new data source were ignored by the application server.

How can the administrator ensure that the attributes configured on the new data source are used by the application server?

A. Create the data source under cell scope instead of server scope.
B. Delete any data source of the same name defined under node, cluster or cell scope.
C. Reinstall the application and clear the Process embedded configuration check box.
D. Correct the component-managed and container-managed authentication aliases set on the data source.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
In a test environment, a system administrator has configured an external HTTP server in the DMZ that is routing to a cluster of application servers. The administrator wants to achieve higher performance when routing and prioritizing incoming requests to the back-end cluster.

How can the system administrator achieve this task?

A. Configure a cluster of external HTTP servers.
B. Enable the prefer local option on the cluster members.
C. Set up a Caching Proxy server between the external web server and the application server.
D. Place an On Demand Router (ODR) between the external web server and the application servers.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
While monitoring a cluster in the cell, the administrator notices that one server in the cluster periodically loses connections to the database. When this happens, requests to the server have a significantly decreased response time and various error conditions are listed in the log files for the server. Since the error codes are returned quickly, the server starts returning responses faster than the average service times for the application. Due to this, the weight for the server is increased and a large percentage of incoming requests are being routed to the erroneous server and the server is getting overloaded with requests.

How can the administrator detect these conditions in the future and take action to prevent this problem?

A. Configure the storm drain health policy.

B. Configure the on demand router (ODR) transport chain to tune inbound connections.

C. Monitor the JVM heap usage to determine a new server weight.

D. Enable the PMI Extended statistic set and use the Connection Pool summary report.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
answer is modified.

QUESTION 24
The application placement controller has been configured with elasticity mode enabled. Intermittently, all instances of a dynamic cluster are removed. After further review, the system administrator noticed that it occurs during peak load on another dynamic cluster.

The administrator wants to keep at least one instance available. Which configuration is needed in the dynamic clusters?

A. Enable application lazy start with elasticity mode.

B. Set theproactiveIdleStopcustom property to true

C. Set the Number of instances to a value greater than zero.

D. Disable the option"If other dynamic clusters need resources, stop all instances of this cluster during periods of inactivity".

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference:http://pic.dhe.ibm.com/infocenter/wxdinfo/v6r1/index.jsp?topic=%2Fcom.ibm.webspher e.ops.doc%2Finfo%2Freference%
2Frodccustprop.html

QUESTION 25
A system administrator has deployed an application. The development team has updated a new version of this application. The administrator needs to immediately deploy this updated application and guarantee that only this new edition is used by clients and that any service requests for the application are queued during the deployment of the new application.

How can the administrator achieve this task without any downtime to the application?

A. Perform a soft rollout.

B. Perform a hard rollout.

C. Perform an atomic rollout.

D. Perform a concurrent activation rollout.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
A WebSphere Application Server cell was configured with a deployment manager node and a custom node. An operator manually changed some configuration files in the custom node, and the node became out of synch with the master repository.

The system administrator used the Synchronize button in the system administration session of the Integrated Solutions Console (ISC) to try to resynchronize the node, but the node remained out of sync.

What should the administrator do to fix it?

A. Use the Full Resynchronize button.

B. Invoke "sync" operation on NodeSync MBean.

C. Recreate the custom profile with the same name without deleting the node.

D. Manually copy all the deployment manager configuration files to the custom node.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference:https://books.google.com.pk/books?id=oLq6AgAAQBAJ&pg=PA30&lpg=PA30&dq=Use +the+Full+Resynchronize +button&source=bl&ots=rdUMDel7n0&sig=YeWe8vnPOUZtxtD7DZP8IZ dMF1Y&hl=en&sa=X&ei=manTVK-2KIXVau6lgrgG&ved=0CCEQ6AEwAQ#v=onepage&q=Use%20the%20Full%20Resynchronize%2 0button&f=false

QUESTION 27
A system administrator needs to install WebSphere Application Server using response files, so that silent install can be done. The administrator has ensured that all required prerequisites have already been installed and, has downloaded and expanded the required WebSphere Application Server installation files.

What can the administrator run to install the product?

A. install -options responsefile.xml -silent

B. install -acceptLicense -options responsefile.xml -silent

C. install -acceptLicense input responsefile.xml -log logfile.txt

D. IBMIM -acceptLicense -input responsefile.xml -log logfile.txt

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Reference:http://www-01.ibm.com/support/knowledgecenter/SSHRKX_8.5.0/mp/install/inst_silent-

QUESTION 28
A system administrator needs to create a cell for a test environment. The administrator uses the Profile Management Tool (PMT) to create the deployment manager profile using the advanced profile creation option and creates a custom profile using the typical profile creation option. The administrator examines the log files for the custom profile creation and sees an INSTCONFFAIL message indicating the deployment manager was not running during the custom profile creation.

How should the administrator fix this?

A. Delete the custom profile.
    Start the deployment manager.
    Create the custom profile again.
B. Start the deployment manager.
    Use PMT to re-create the custom profile.
C. Use the syncNode command to synchronize the node.
D. Run the addNode command to federate the custom profile.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 29
A system administrator needs to install WebSphere Application Server Network Deployment V8.5.5 multiple times and would like to automate the task of installing the product. The administrator wants to create a response file based on an initial installation and use this for future installations.

How can the administrator accomplish this task?

A. Use the IBM Packaging Utility.

B. Use the Installation ManagerConsolemode.
C. Complete a silent installation with the -log option.
D. Start the Installation Manager GUI with the -record option.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Reference:http://setgetweb.com/p/portal80/p8/additional.html

QUESTION 30
The installation of WebSphere Application Server did not complete successfully, and a system administrator needs to troubleshoot the installation.

What can the administrator do to identify the cause of the installation failure?

A. Run the installer command with the appropriate command line options.
B. Check the files under the Agent data location of IBM Installation Manager.
C. Check the files under the logs directory of IBM Installation Manager installation directory.
D. Check the log.txt under <WebSphere Application Server install directory><log directory>.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 31
A system administrator decides to use the advice from the Performance and Diagnostic Advisor to identify the optimum connection pool settings for data sources. In a cell, the data source db2datasource is defined under node scope and used by two servers from that node. The administrator receives two different sets of advice for db2datasource.

. One set of advice suggests to increase the maximum connection pool size for

db2datasource.

. The other suggests reducing the maximum connection pool size for db2datasource.

How should the administrator configure the data sources before reusing the Performance and Diagnostic Advisor?

A. Create a data source of the same name under cell scope.
B. Create a data source of the same name under server scope for each server.
C. Increase the minimum connection pool size for the data source.
D. Decrease the maximum connection pool size for the data source.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
answer is verified.

QUESTION 32
A system administrator in a bank was asked by business users to determine the most accessed JSP page in a web application at normal work load for marketing purpose.

Which tool should the administrator use to find the most used JSP page?

A. Performance and Diagnostic Advisor
B. IBM Support Assistant Data Collector
C. High Performance Extensible Logging Log Viewer
D. Tivoli Performance Viewer (TPV) summary reports

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
answer is verified.