



C9510-401^{Q&As}

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

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**QUESTION 1**

A system administrator has to design a new production environment to host a web application. The workload of this web application is expected to increase during special marketing campaigns.

Which one of the following topologies should the administrator configure to address the requirements for this new environment?

- A. A Liberty collective environment with autonomic managers and on demand router (ODR).
- B. A flexible management environment supported by one admin agent running in each node of the cell.
- C. A dynamic cluster with autonomic managers, application placement controller and intelligent routers.
- D. A heterogeneous cell with enough server to support the peak load spread across multiple nodes on the same machine.

Correct Answer: C

A dynamic cluster is a server cluster that uses weights and workload management to balance the workloads of its cluster members dynamically, based on performance information that is collected from the cluster members. Dynamic clusters enable application server virtualization. A dynamic cluster is an application deployment target that can expand and contract depending on the workload in your environment. Dynamic clusters work with autonomic managers, including the application placement controller and the dynamic workload manager to maximize the use of your computing resources. Dynamic clusters are required for many of the Intelligent Management autonomic functions, including high availability and service policies.

References: https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/cwve_odrdynamiccluster.html

QUESTION 2

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

The scalability with high availability configuration ensures that there is a messaging engine for each server in a cluster, and that each messaging engine has a failover location.

http://www-01.ibm.com/support/knowledgecenter/SSCKBL_8.5.5/com.ibm.websphere.nd.doc/ae/cjt10_04_.html (second paragraph)



QUESTION 3

An application contains a web services client and the application is deployed and running. A system administrator has to add a response timeout to the deployed web services client, so the call fails in a timely fashion.

Which artifact should the administrator use?

- A. web.xml
- B. was-webservices-sca.xml
- C. ibm-webservices-bnd.xml
- D. ibm-webservicesclient-bnd.xml

Correct Answer: D

The `ibm-webservicesclient-bnd.xml` deployment descriptor file contains information for the web services run time that is WebSphere?product-specific. This deployment descriptor file is used with Java API for XML-based web services.

References: https://www.ibm.com/support/knowledgecenter/SSEQTJ_8.5.5/com.ibm.websphere.base.doc/ae/rwbs_assembpropclient.html

QUESTION 4

A system administrator runs a Python script that creates and configures several servers and realizes that the script fails before completing. Although many tasks succeeded, they are rolled back when the script fails.

Before running the script again, what can the administrator add to the script after each task so the completed tasks are committed even if other tasks fail?

- A. `AdminApp.update ()`
- B. `AdminConfig.save()`
- C. `AdminControl.invoke(server, '\\sync\\')`
- D. `AdminTask.backupJobManager('\\server\\')`

Correct Answer: B

QUESTION 5

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

The scalability with high availability configuration ensures that there is a messaging engine for each server in a cluster, and that each messaging engine has a failover location.

QUESTION 6

A system administrator has started a Liberty profile server using the default values. Later, the administrator modified the server.xml file for the server to include

The administrator placed the application ServletApp.war in the apps directory under `${server.config.dir}`. While accessing the correct URL for the home page of the application, the error "Context Root Not Found" occurs in the browser.

How can the administrator resolve this error?

- A. Restart the Liberty profile server.
- B. Install the ServletApp.war file using the Integrated Solutions Console (ISC).
- C. Place the ServletApp.war file in the directory named dropins under `${server.config.dir}`.
- D. Place the ServletApp.war file in the directory named applications under `${server.config.dir}`.

Correct Answer: D

QUESTION 7

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 the `proactiveIdleStop` custom 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

It is not recommended to enable elasticity mode when the following option is set in the administrative console for one or more dynamic clusters:

If other dynamic clusters need resources, stop all instances of this cluster during periods of inactivity.

If you have elasticity mode enabled and the option set, the application placement controller can remove all of the custom nodes in the cell.

References:

https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/twve_cfgelastic.html

QUESTION 8

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.

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

References: https://www.ibm.com/support/knowledgecenter/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/cprf_rpa.html

QUESTION 9

A system administrator has created a Jython script that will run in WebSphere Network cell where administrative security is enabled. This script is named doUpdate.py and will be run by using the following:

```
wsadmin -connType RMI -f doUpdate.py
```

How can the administrator suppress a user/password prompt from appearing when this script is run?

Set the user and password in the:

- A. sas.client.props file.
- B. ssl.client.props file.



- C. soap.client.props file.
- D. wsadmin.properties file.

Correct Answer: A

The user Id and password needed for wsadmin to connect to a secured server can be supplied as command line options and in properties files. If used together, command line options take precedence over what is in the properties files. The properties files are located at Profile_root/properties.

If you use a Remote Method Invocation (RMI) connector or a JSR160RMI connector, set the following properties in the sas.client.props file with the appropriate values: com.ibm.CORBA.loginUserid= com.ibm.CORBA.loginPassword=

References: https://www.ibm.com/support/knowledgecenter/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/xml_security.html

QUESTION 10

A new cell contains a cluster with members defined in two managed nodes running on two different machines. The cell also contains two unmanaged nodes running on HTTP servers with HTTP plug-in. Session persistence has been enabled.

Which additional component(s) can the system administrator configure to make this environment highly available?

- A. Enable administrative security.
- B. Configure a DMZ secure proxy.
- C. Configure High Performance Extensible Logging.
- D. Configure primary and backup load balancers for the HTTP servers.

Correct Answer: D

QUESTION 11

A system administrator ran the backupConfig command to backup the configuration using the -nostop option. The administrator changed the properties for the service integration environment by modifying the sib.properties file. During testing the administrator noticed Service Integration Bus related errors and wanted to restore the service integration environment. The administrator used the restoreConfig command, but the tuning properties for the service integration environment were not restore.

How can the administrator prevent this issue?

- A. Use full repository checkpoint for both the backup and the restore.
- B. Use the restoreConfig command with -nostop for the restore.
- C. Use the manageprofiles command for both the backup and the restore.
- D. Use the backupConfig command without -nostop for the backup
- E. Use the restoreConfig command without -nostop for the restore.



Correct Answer: A

With the repository checkpoint and restore function, you can back up copies of files from the master configuration repository. You can use the backups to restore the configuration to a previous state if future configuration changes cause operational problems. By using this function, you can reduce recovery time for problems that are caused by configuration changes. Studies of unplanned outages have shown that as much as 36 percent of unplanned outages are due to operator errors. A common source of operator error is a bad configuration change. The ability to quickly undo a bad configuration change is critical to minimizing the outage window.

References: https://www.ibm.com/support/knowledgecenter/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/cwve_xdsochckpt.html

QUESTION 12

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.

Correct Answer: C

When Java 2 security is enabled for a WebSphere Application Server, all the applications that run on WebSphere Application Server undergo a security check before accessing system resources. An application might need a was.policy file if it accesses resources that require more permissions than those granted in the default app.policy file

References: <http://www.aiotestking.com/ibm/how-can-a-system-administrator-secure-a-websphereapplication-server-environment-to-ensure-that-an-application-code-will-not-be-allowed-to-access-anyfiles-in-the-servers-file-system/>

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