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

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QUESTION 1

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 CenterCell to:

A. false in all three WebSphere Application Server cells.

B. false in one WebSphere Application Server celltrue in the other two WebSphere Application Server cells.

C. true in all three WebSphere Application Server cells.

D. true in one WebSphere Application Server cellfalse in the other two WebSphere Application Server cells.

Correct Answer: D

QUESTION 2

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.

D. Move the coordinator to another machine.

Correct Answer: B

Remember that coordinator election occurs whenever the view changes. Electing a new coordinator uses a lot of resources because this process causes increased network traffic and CPU consumption. Specifying a preferred coordinator server, whenever practical, helps eliminate the need to make frequent coordinator changes.

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

QUESTION 3

A system administrator suspects that the slow performance of an application might be caused by lock contention.

To debug this further, what can the administrator do using IBM Support Assistant?

A. Analyze the running server using IBM Monitoring and Diagnostic Tools for Java ?Health Center.

B. Collect a javacore and analyze it using IBM Monitoring and Diagnostic Tools for Java ?Health Center.

C. Collect three thread dumps at equal time intervals and analyze them using IBM Monitoring and Diagnostic Tools for Java ?Dump Analyzer.

D. Collect three system dumps at equal time intervals and analyze them using IBM Monitoring and Diagnostic Tools for Java ?Memory Analyzer.

Correct Answer: A

The IBM Monitoring and Diagnostic Tools for Java - Health Center is a lightweight tool that monitors active IBM Virtual Machines for Java with minimal performance overhead. The Health Center suggests live tuning recommendations for Garbage Collection, profiles methods including call stacks, and highlights contended locks. This information can help you optimize performance, improve stability and optimize system resource usage.

The tool is provided in two parts:

References: https://www.ibm.com/support/knowledgecenter/SS3KLZ/com.ibm.java.diagnostics.healthce nter.doc/homepage/plugin-homepage-hc.html

QUESTION 4

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/

QUESTION 5

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: C

Process embedded configuration Specifies whether the embedded configuration should be processed. An embedded configuration consists of files such as resource.xml, variables.xml, and deployment.xml. You can collect WebSphere Application Server-specific deployment information and store it in the application EAR file. Such an EAR file can then be installed into a WebSphere Application Server configuration, using application management interfaces that are described in the topic, Installing an application through programming. One such application EAR file is an enhanced EAR file, which is created when you export an already installed application. The embedded configuration check box identifies such an enhanced EAR file. By default, the check box for "process embedded configuration" is checked if the application is detected to be an enhanced EAR. The application install options are prepopulated with the information from the embedded configuration whether the check box for "process embedded configuration" is checked or not. Users can overwrite these values during the deployment process.

References: https://www.ibm.com/support/knowledgecenter/SSAW57_8.0.0/com.ibm.websphere.nd.doc /info/ae/ae/ urun_rapp_installoptions.html

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