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

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QUESTION 1

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 2

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/ txml_security.html

QUESTION 3

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 4

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 5

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

References: https://www.ibm.com/developerworks/websphere/techjournal/1206_alcott/1206_alcott.html

QUESTION 6

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 7

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: B

Setting up Liberty server clusters A Liberty can be configured into a server cluster for application high availability and scale. The collectiveController-1.0 feature and its capabilities are available only in multiple-server products such as WebSphere?Application Server Liberty Network Deployment and WebSphere Application Server Liberty for z/OS. The feature is not available in single- server products such as WebSphere Application Server Liberty, WebSphere Application Server Liberty - Express, or WebSphere Application Server Liberty Core. If you have a multiple-server product installation, you can use its collectiveController-1.0 feature to work with collective members from single-server products.

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

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QUESTION 8

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 9

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

Performing an atomic rollout activates the new edition on half of the cluster first, and then activates the edition on the remaining half of the cluster. While the first half of the cluster is taken offline and updated, application requests are routed to the second half of the cluster. Verify that half the cluster can handle the entire load during the rollout period.

References: http://www.aiotestking.com/ibm/how-can-the-administrator-achieve-this-task- without-anydowntime-to-the-application/

QUESTION 10

A system administrator, Admin1, with Administrator privileges has archived full repository checkpoints. Another administrator, Configurator1, with Configurator privileges has copied the checkpoint contents directory from one of the archived check points to its original location. Configurator1 tries to restore the configuration using the copied archived checkpoint contents and the restore fails.

How can Configurator1 restore the configuration using the copied archived full repository checkpoint?

A. Copy the archived checkpoint metadata directory to its original location.

B. Increase the Automatic checkpoint depth to keep all the delta checkpoint.

C. Delete the delta checkpoint taken after the full repository checkpoint was taken.

D. Ask an administrator to update the privileges for Configurator1 to match Admin1.

Correct Answer: A

You must archive both the checkpoint metadata and content directories to store a checkpoint for later restoration.

References: http://www-01.ibm.com/support/knowledgecenter/SSD28V_8.5.5/com.ibm.websphere.nd.doc/ ae/twve_archive_checkpoint.html

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QUESTION 11

A system administrator discovers an issue that requires a change to a federated server. In this cell,

WebSphere administrative security is enabled, but application security is not enabled.

How should the administrator make this change?

The administrator should use:

A. a web browser to connect to the node agent https port.

B. a web browser to connect to the deployment manager admin_host port.

C. the job manager to submit a job to update the unmanaged server.

D. an ssh connection to the node and modify the client_types.xml file.

Correct Answer: B

The admin_host virtual host is used for access to the WebSphere administrative console. At installation time, the host is configured to match requests on the wc_adminhost and wc_adminhost_secure ports for the stand-alone server or deployment manager.

References: WebSphere Application Server V8.5 Administration and Configuration Guide for the Full Profile (July 2013), page 303

QUESTION 12

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 13

A system administrator needs to install WebSphere Application Server using response files, so that a 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. imcl –acceptLicense input responsefile.xml –log logfile.txt

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

Correct Answer: C

Example of the use of the response files to install the product. imcl.exe -acceptLicense input C:\temp\keyring_response_file.xml -log C:\temp\keyring_log.xml

QUESTION 14

While coordinating a flexible management topology, the job manager can send commands to which components?

A. Application server and name server.

B. On demand router and load balancer.

C. Deployment manager and admin agent.

D. Node agent and web administration server.

Correct Answer: C

To manage multiple cells, register deployment managers with job manager directly

Use administrative agent to register base server profiles with a job manager

References: http://194.196.36.29/support/docview.wss?uid=swg27017353andaid=1, page 10

QUESTION 15

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

Select "Full Resynchronize" in the console.

References: https://www-01.ibm.com/support/docview.wss?uid=swg21233075

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