

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 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: D

Summary reports are available for each application server. Tivoli Performance Viewer provides the following summary reports for each application server:

The servlet summary lists all servlets that are running in the current application server. Use the servlet summary view to quickly find the servlet that consumes the most time and the applications that use them, and to determine which servlets are invoked most often.

Etc.

References:

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

QUESTION 2

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 correct 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

QUESTION 3

Within a WebSphere Application Server Network Deployment cell, a system administrator needs to write a script to determine if a particular server is stopped. It is important that the wsadmin script explicitly return a status of stopped as opposed to just failing.

What wsadmin object should the administrator use to write this script?

- A. AdminApp
- B. AdminTask
- C. AdminConfig
- D. AdminControl

Correct Answer: D

Use the AdminControl object to invoke operational commands that manage objects for the application server. Many of the AdminControl commands have multiple signatures so that they can either invoke in a raw mode using parameters that are specified by Java Management Extensions (JMX), or by using strings for parameters. In addition to operational commands, the AdminControl object supports some utility commands for tracing, reconnecting with a server, and converting data types.

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

QUESTION 4

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 5

An application deployed to a multi-node cluster is reported to have slowness and hung threads. A system administrator is asked to review the logs on each node and identify if the hung threads are a false alarm.

How can the administrator determine that the hung threads are a false alarm? Analyze the:

- A. ffdc logs
- B. SystemErr.log
- C. SystemOut.log
- D. native_stderr.log

Correct Answer: C

Problem(Abstract)

The SystemOut.log contains a WSVR0605W message, also called a hung thread message. A javacore, or thread dump on Solaris and HP-UX, is needed in order to determine how to resolve the potentially hung threads.

Cause

WebSphere Application Server attempts to report potentially hung threads using the hung thread detector.

Depending on how the hung thread detector policy is configured, a thread running for a certain interval (default 10 minutes) might be reported as hung and a WSVR0605W message is printed in the

SystemOut.log file:

WSVR0605W: Thread has been active for and may be hung. There are

in total in the server that may be hung.

References: <https://www-01.ibm.com/support/docview.wss?uid=swg21448581>

QUESTION 6

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_xdschckpt.html

QUESTION 7

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

Deleting profiles. You can delete a profile using the manageprofiles command. If the command fails, you can delete the profile using operating system commands.

Before you begin: If a node within a profile is federated to a deployment manager, before you delete the profile, stop the node and remove the node from the deployment manager. Otherwise, an orphan node remains in the deployment manager.

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

QUESTION 8

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 9

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

QUESTION 10

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: A

Storm drain condition tracks requests that have a significantly decreased response time. This policy relies on change point detection on given time series data.

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

QUESTION 11

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 12

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.healthcenter.doc/homepage/plugin-homepage-hc.html>

QUESTION 13

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 Manager console mode.
- C. Complete a silent installation with the -log option.
- D. Start the Installation Manager GUI with the -record option.

Correct Answer: D

Run the command to record a response file for the package installation. This command uses the skipInstall argument, which records the installation commands without installing the Tivoli Monitoring packages. Substitute your own file name and location for the response file. Verify that the file paths that you enter exist. Installation Manager does not create directories for the response file: Windows: IBMIM -record -skipInstall Unix/Linux: ./IBMIM -record -skipInstall

References: https://www.ibm.com/support/knowledgecenter/SS4EKN_7.2.0/com.ibm.itm.doc_6.3/install/record_resp_file.htm

QUESTION 14

An EJB application posts a request message into a JMS destination and waits for a response message on a different JMS destination. To correlate the response message to the request message, the application uses the JMS correlationId of the message. The application waits up to five seconds for a response before timing out the request.

A Message Driven Bean (MDB) running on a different cluster is responsible for consuming the request message, process it and post a response message.

The destinations are defined in a Service Integration Bus (SIB) within the cell. Intermittent timeout exceptions have occurred for the requester application. How can a system administrator correlate and analyze the debug information from both requester and consumer applications?

- A. Enable High Performance Extensible Logging (HPEL). Use HPEL logViewer command to see debug information.
- B. Enable a diagnostic trace in both requester and consumer servers. Use the Integrated Solutions Console (ISC) to set the admin=all trace. Analyze the trace.

C. Enable High Performance Extensible Logging (HPEL). Enable Cross Component Trace (XCT) to include request IDs in log and trace records. Use HPEL logViewer command with appropriate filters to see debug information.

D. Using the Integrated Solutions Console (ISC), browse the request message that has timed out and look for any key application data. Search for exceptions using the key application data in both requester and consumer in native_stderr.log and native_stdout.log.

Correct Answer: C

Cross Component Trace (XCT) annotates the logs so that log entries that are related to a request that is serviced by more than one thread, process, or even server are identified as belonging to the same unit of work. XCT helps identify the root cause of problems across components.

References: WebSphere Application Server V8.5 Administration and Configuration Guide for the Full Profile (July 2013), page 1091

QUESTION 15

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

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

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

Correct Answer: D

Fine-grained administrative security

In releases prior to WebSphere Application Server version 6.1, users granted administrative roles could administer all of the resources under the cell. WebSphere Application Server is now more fine-grained, meaning that access can be granted to each user per resource.

For example, users can be granted configurator access to a specific instance of a resource only (an application, an application server or a node).

To achieve this instance-based security or fine-grained security, resources that require the same privileges are placed in a group called the administrative authorization group or authorization group. Users can be granted access to the authorization group by assigning to them the required administrative role.

References: http://www-01.ibm.com/support/knowledgecenter/SSEQTP_8.5.5/

[com.ibm.websphere.base.doc/ae/cs_ec_fineg_admsec.html?cp=SSEQTP_8.5.5%2F1-8-1-30-3-3](http://www.ibm.com/websphere/base/doc/ae/cs_ec_fineg_admsec.html?cp=SSEQTP_8.5.5%2F1-8-1-30-3-3)

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