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C9510-418

### IBM WebSphere Application Server Network Deployment V9.0 Core Administration

#### Exam A

#### QUESTION 1

What is one of the benefits of using a federated repository over a user registry?

A. Does not support identity profiles

- B. Supports only one registry in a realm
- C. Supports multiple registries within a realm
- D. Provides account and password policy support

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Federated repositories enable you to use multiple repositories with WebSphere® Application Server. These repositories, which can be file-based repositories, LDAP repositories, or a sub-tree of an LDAP repository, are defined and theoretically combined under a single realm. All of the user repositories that are configured under the federated repository functionality are invisible to WebSphere Application Server.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/cwim\\_fedrepos.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/cwim_fedrepos.html)

## QUESTION 2

Which statement describes the capabilities of the deployment manager?



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- A. Logical grouping of application servers
- B. Created and installed when a node is federated into a cell
- C. Created automatically when an application server is federated into a cell
- D. Manages nodes, node agents, and the configuration repository for the cell

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

The deployment manager is an administration application that runs in a special application server, which is created when you install the WebSphere Application Server Network Deployment product or when you create a management profile using the deployment manager profile template.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/tagt\\_snsdply\\_is.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/tagt_snsdply_is.html)

### QUESTION 3

When verbose Garbage Collection is enabled, in which file(s) does the operating system collect the data?

- A. trace.log
- B. activity.log
- C. SystemOut.log and SystemErr.log
- D. native\_stdout.log and native\_stderr.log

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Depending on the operating system in use, the verboseGC output will be written to the following file by default:

AIX, Linux, or Windows: native\_stderr.log

Solaris or HP-UX native\_stdout.log

References: <http://www-01.ibm.com/support/docview.wss?uid=swg21114927>

### QUESTION 4

When setting up high availability settings for the web server, at what level should an administrator configure the custom properties?

- A. cell
- B. node
- C. server
- D. nodeagent

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.multiplatform.doc/ae/xrun\\_jvm.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.multiplatform.doc/ae/xrun_jvm.html)

#### QUESTION 5

Through what protocol can a Java client directly access EJBs running on an application server?

- A. JDBC
- B. RMI/IIOP
- C. SOAP/JMS
- D. SOAP/HTTP

**Correct Answer:** D

**Section:** (none)

**Explanation**

#### Explanation/Reference:

Provided that it uses the correct protocols (SOAP, HTTP, WSDL), any web service client can access a stateless session bean, whether or not the client is written in the Java programming language. The client doesn't even "know" what technology implements the service: stateless session bean, JAX-WS, or some other technology. In addition, enterprise beans and web components can be clients of web services. This flexibility enables you to integrate Java EE applications with web services.

References: <http://docs.oracle.com/javaee/6/tutorial/doc/gipjf.html>

#### QUESTION 6

What is a benefit of using the IBM Extended Cache Monitor?

- A. It invalidates cacheids.
- B. It displays the contents of the cache instances.
- C. It displays the contents of object cache instances.
- D. It displays the dependency ids of the cache instances.

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### Explanation/Reference:

The IBM Extended Cache Monitor for IBM WebSphere Application Server provides you with two functions that are not available with the cache monitor that is supplied with WebSphere Application Server. These two functions enable you to:

display the contents of object cache instances display the  
Dynamic Cache mbean statistics for cache instances

References: [https://www.ibm.com/developerworks/websphere/downloads/cache\\_monitor.html](https://www.ibm.com/developerworks/websphere/downloads/cache_monitor.html)

### QUESTION 7

Which type of profile provides management capabilities for multiple stand-alone application servers?

- A. Custom
- B. Secure Proxy
- C. Administrative agent
- D. Deployment manager

**Correct Answer: C**

**Section: (none)**

**Explanation**

#### **Explanation/Reference:**

You can use the following different configurations of the application server to combine the plug-in configuration files of multiple application server profiles into a single output file:

\* Using multiple stand-alone base application server profiles with an administrative agent using the job manager. The job manager function is a part of WebSphere Application Server Network Deployment. However, you can use the job manager function with stand-alone, base application server profiles. Use this topic to complete this configuration. Etc.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/twsv\\_configsimplelbadminagentjobmgr.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/twsv_configsimplelbadminagentjobmgr.html)

### QUESTION 8

An administrator wants to verify an IBM WebSphere Application Server installation by examining the installation's directory structure. In this example, `<WAS_installation_directory>` indicates the installation's root directory.

What is one directory tree structure that indicates a successful installation of the product files?

- A. `<WAS_installation_directory>/web`
- B. `<WAS_installation_directory>/bin`
- C. `<WAS_installation_directory>/profiles`
- D. `<WAS_installation_directory>/installableApps`

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

WebSphere Application Server Version 8.5.5 for Network Deployment:  
/QIBM/UserData/WebSphere/AppServer/V85/ND/profiles/wp\_profile/PortalServer

References: [https://www.ibm.com/support/knowledgecenter/en/SSYJ99\\_8.5.0/reference/wpsdirstr.html](https://www.ibm.com/support/knowledgecenter/en/SSYJ99_8.5.0/reference/wpsdirstr.html)

### QUESTION 9

Which statement describes the functionality of web containers?



- A. Web containers forward EJB requests to the EJB container.
- B. Web containers process JSPs, servlets, and various server-side objects.
- C. Servlets requests are forwarded from an EJB container to a web container.
- D. Each application server can contain multiple web containers, depending upon the number of JSPs and servlets.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

The runtime environment for Web components is called the Web container. . It processes servlets, JSP files, and other types of server-side components.

References: <http://www.redbooks.ibm.com/redpapers/pdfs/redp4309.pdf>

### QUESTION 10

Which is true about software repositories for IBM Installation Manager?

- A. Repositories must be local.
- B. Repositories must be online.
- C. Repositories can be either local or online.
- D. Repositories are only in the media package.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

IBM Installation Manager is a single installation program that can use remote or local software repositories to install, modify, or update certain IBM products. It determines and shows available packages, checks prerequisites and interdependencies, and installs or modifies the selected packages. You also use IBM Installation Manager to uninstall the packages that it installed.

References: <http://www-01.ibm.com/support/docview.wss?uid=swg24023498>

#### **QUESTION 11**

What is one way to determine if administrative security for IBM WebSphere Application Server is disabled when logging into the Integrated Solutions Console?

- A. A user is not forced to use HTTPS (SSL).
- B. An administrator is allowed to type any random password.
- C. An administrator is prompted for user name, but not password.
- D. When the username wasadmin is used to log in, the password used is the default "password".

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Congratulations! You have successfully manually disabled Global Security for your IBM WebSphere Application Server instance. You should now be able to access the WAS Integrated Solutions Console (ISC) without having to specify a password.

References: <http://www-01.ibm.com/support/docview.wss?uid=nas8N1012744>

#### **QUESTION 12**

An administrator needs to resolve port conflicts after creating a managed node using the Profile Management Tool.

Which supported method can be used to resolve the port conflicts?

- A. Edit `serverindex.xml`.
- B. Use `updatePorts.ant`.
- C. Use Profile Port Checker tool and set ports.
- D. Use `manageProfile` tool and set port range on the profile.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

If you discover ports conflicts, then you can reassign ports manually. To reassign ports, run the `updatePorts.ant` file by using the `ws_ant` script.

References: [https://www.ibm.com/support/knowledgecenter/en/SSEQTP\\_8.5.5/com.ibm.websphere.base.doc/ae/tpro\\_instancessaappserv.html](https://www.ibm.com/support/knowledgecenter/en/SSEQTP_8.5.5/com.ibm.websphere.base.doc/ae/tpro_instancessaappserv.html)

### QUESTION 13

A system administrator has just enabled HPEL in the environment.

How can the administrator examine the logged data?

- A. Use the `ViewLog` command.
- B. Use the administrative console.
- C. Use a text editor to open the `systemOut.log` file.
- D. Use the IBM Support Assistant to analyze the text log.



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

High Performance Extensible Logging (HPEL) is a log and trace facility that is provided as a part of WebSphere® Application Server. HPEL provides a log data repository, a trace data repository, and a text log file.

The HPEL LogViewer is an easy-to-use, command-line tool provided for HPEL users to work with the log data and trace data repositories.

Use the following command to view the full contents of your log and trace repositories:

[Windows] (Windows) `logViewer.bat`

[AIX HP-UX Solaris] (Unix- full profile) `logViewer.sh`

[AIX HP-UX Solaris] (Unix- Liberty profile) `logViewer`

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/rtrb\\_logviewer.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/rtrb_logviewer.html)



**QUESTION 14**

How can an administrator configure Web services security?

- A. Customize WS-Security policy set and bindings and attach to Web services.
- B. Configure global security with LDAP authentication and map the configuration to Web services.
- C. Request application developer to use Web Services Security API to achieve Web services security.
- D. Enable the Web Services Metadata Exchange (WS-MetadataExchange) protocol to enable message-level security.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

The Web Services Security specification provides a flexible framework for building secure web services to implement message content integrity and confidentiality. The Web Services Security service programming model supports this flexible framework by providing extension points to integrate new token formats, and methods to obtain keys needed for message protection. The application server programming model provides Web Services Security programming application programming interfaces (WSS API) for securing SOAP messages.

Note: WS-Security is a message-level standard that is based on securing SOAP messages through XML digital signature, confidentiality through XML encryption, and credential propagation through security tokens. The Web services security specification defines the facilities for protecting the integrity and confidentiality of a message and provides mechanisms for associating security-related claims with the message.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/container\\_wssec\\_top.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/container_wssec_top.html)

**QUESTION 15**

When installing a new application to IBM WebSphere Application Server, which location is valid for the application file?

- A. Client Machine
- B. Managed Node
- C. Unmanaged Node
- D. Remote Web Server

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Configuration file location during application installation

Several things occur upon installation of an application onto WebSphere Application Server:

- The application binaries and deployment descriptors are stored within the master repository.
- The application binaries and deployment descriptors are published to each node that will host the application. These files are stored in the local copy of the repository on each node.
- Each node then installs the applications that are ready for execution by exploding the EARs under `profile_root/installedApps/cell_name/`, as follows:
  - `profile_root/installedApps/cell_name/`  
This directory contains a subdirectory for each application deployed to the local node.
  - `profile_root/installedApps/cell_name/app_name.ear/`  
Each application-specific directory contains the contents of the original EAR used to install the application.

Note: A node is a logical grouping of managed servers. Nodes can be managed or unmanaged. An unmanaged node does not have a node agent or administrative agent to manage its servers, whereas a managed node does. Both application servers and supported web servers can be on unmanaged or managed nodes.

References: WebSphere Application Server V8.5, July 2013, page 17

#### QUESTION 16

An administrator is using the Guided Troubleshooter in the IBM Support Assistant to troubleshoot IBM WebSphere Application Server issues. After going through data collection and analysis, no reliable solution is found.

What is the administrator's best next step?

- A. Call in a new PMR with IBM and upload Troubleshooter data to ECuREP.
- B. Open a new PMR with IBM and upload SystemOut.log from the IBM WebSphere Application Server.
- C. Submit results to the IBM WebSphere Application Server forum for a quick response from other forum users.
- D. Use the Guided Troubleshooter to open a service request with IBM, so all the troubleshooting data analyzed so far is uploaded automatically.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 17

When installing IBM WebSphere Application Server on a network file system, IBM Installation Manager fails with an insufficient disk space error.

How could this be resolved?

- A. Increase disk space and try again.
- B. Delete temporary files and try again.
- C. Reboot operating system and try again.

D. Disable disk space checking in the config.ini and try again.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

On some network file systems, disk space might not be reported correctly at times; and you might need to bypass disk-space checking and proceed with your installation.

To disable disk-space checking, specify the following system property in the config.ini file in IM\_install\_root/eclipse/configuration and restart Installation Manager.

References: [https://www.ibm.com/support/knowledgecenter/SSEQTP\\_9.0.0/com.ibm.websphere.installation.base.doc/ae/tins\\_troubleshoot.html](https://www.ibm.com/support/knowledgecenter/SSEQTP_9.0.0/com.ibm.websphere.installation.base.doc/ae/tins_troubleshoot.html)

### QUESTION 18

Which of the following is true about certificate expiration monitoring?

- A. Must be run manually.
- B. Must be run on the deployment manager.
- C. Deletes the certificates after they are expired, but does not replace them.
- D. Can replace expired certificates or certificates in the expiration threshold with a new certificate

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Certificate monitor configuration settings can be configured on the administrative console by selecting Security > SSL certificate and key management > Manage certificate expiration. . On the Manage certificate expiration panel, you can perform the following functions.

- Set the expiration threshold in the box labeled Expiration replacement threshold. The expiration replacement threshold is the number of days before a certificate expiration that a certificate can be replaced and has a default value of 60 days.
- Delete the certificates after they are replaced by selecting the Delete expiring certificates and signers after replacement box. This box is selected by default. Etc.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_7.0.0/com.ibm.websphere.nd.doc/info/ae/ae/csec\\_sslcertmonitoring.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_7.0.0/com.ibm.websphere.nd.doc/info/ae/ae/csec_sslcertmonitoring.html)

### QUESTION 19

Which of the following is true regarding disk offload?

- A. The amount of disk space to use cannot be specified.
- B. On server startup, DynaCache loads the entire disk cache into memory.
- C. The number of cache entries that are offloaded to disk cannot be specified.
- D. Disk offload can be enabled to have a cache entry copied to the file system at a configurable location.

**Correct Answer:** ACD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

AC: Before you enable disk offload, consider the following:

You cannot specify the number of cache entries that are offloaded to disk.

You cannot specify the amount of disk space to use.

D: You can enable disk offload to have a cache entry copied to the file system (the location is configurable).

References: [https://www.ibm.com/support/knowledgecenter/SSEQTP\\_9.0.0/com.ibm.websphere.base.doc/ae/udyn\\_rcachesettings.html](https://www.ibm.com/support/knowledgecenter/SSEQTP_9.0.0/com.ibm.websphere.base.doc/ae/udyn_rcachesettings.html)

#### **QUESTION 20**

Which is true when an administrator properly updates a single file within an application?



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- A. The administrator can use a partial application update.
- B. The administrator must redeploy the full application file.
- C. The administrator can manually update the file on the file system.
- D. The administrator must uninstall the application, and then, reinstall with the updated application file.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

How can the administrator change the console session expiration for the Integrated Solutions Console?

- A. Modify timeout value and run the `timeout.jacl` script.
- B. Set the timeout value in the Console Preferences panel.
- C. Use the `settimeout wsadmin` command and specify the value.
- D. Set the `ConnectionResponseTimeout` value in the Integrated Solutions Console.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Change the <timeout value> on the two lines of the `timeout.jacl` script to the new session expiration value. This number specifies the number of minutes the console preserves the session during inactivity.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/isc/cons\\_sessionto.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/isc/cons_sessionto.html)

**QUESTION 22**

Which of the following statements is true regarding the relationship of nodes and node groups?

- A. Nodes can belong to only one node group.
- B. Nodes managed by a node group cannot be deleted.
- C. All nodes are initially not associated with a node group.
- D. All nodes are initially associated with a default node group.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

D: a node must be a member of a node group. Initially, all Application Server nodes are members of the default `DefaultNodeGroup` node group.

Note: A node group is a collection of managed nodes.

Incorrect Answers:

A: A node can be a member of more than one node group.

C: A node must be a member of a node group. Initially, all Application Server nodes are members of the default DefaultNodeGroup node group.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/cagt\\_node\\_group.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/cagt_node_group.html)

### QUESTION 23

In addition to logging changes, what can Cross Component Trace capture?

- A. The user agent of the browser that has initiated the request.
- B. The last time that the component was updated by a code deploy.
- C. The time that the component was started in the application server.
- D. Data snapshots that store entire request and response bodies on the file system.

**Correct Answer:** C

**Section:** (none)

**Explanation**

#### Explanation/Reference:

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 log records are typically added to the logs to:

- demarcate the beginning and ending of work for a particular request on a particular thread.
- demarcate when work is about to be transferred to another thread or process, or to indicate when work returned from another thread or process.
- demarcate when work moves from major component to major component, even if work continues on the same thread; for example to show transfer of control from application server code to application code.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/ctrb\\_XCTOverview.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/ctrb_XCTOverview.html)

### QUESTION 24

Which type of fix would typically be downloaded to address a specific problem?

- A. Interim fix
- B. Cumulative fix
- C. Product fix pack
- D. Cumulative interim fix

**Correct Answer:** A

**Section:** (none)

## Explanation

### Explanation/Reference:

A WebSphere Commerce interim fix (iFix) is a software patch that contains fixes for one or more APARs. A WebSphere Commerce cumulative iFix is a comprehensive collection of interim fixes for a specific release. Both types of fixes are installed with the WebSphere Commerce Update Installer (UPDI).

Note: An Authorized Program Analysis Report, or APAR, is a formal report from IBM development to customers that have notified IBM of a problem or suspected defect. If IBM development is able to confirm the existence of the issue they will create an APAR with any known work around and perhaps an indication of which future release, if any, of the IBM program they intend to target for a formal fix to the defect and whether or not a Program Temporary Fix (PTF) is planned. The APAR will then be published so that it is visible to supported customers.

References: [https://www.ibm.com/support/knowledgecenter/en/SSZLC2\\_7.0.0/com.ibm.commerce.install.doc/concepts/cig\\_install\\_ifixes.htm](https://www.ibm.com/support/knowledgecenter/en/SSZLC2_7.0.0/com.ibm.commerce.install.doc/concepts/cig_install_ifixes.htm)

### QUESTION 25

What determines which On Demand Routers (ODRs) a Web server forwards requests to?

- A. The default order in the `ODR_Module_Routing_Poolicy.xml`.
- B. The configuration scope determines which ODRs are included in `httpd.conf`.
- C. The configuration scope determines which ODRs are included in `plugin-cfg.xml`.
- D. The configuration scope determines which ODRs are included in `HTTPplugin-cfg.xml`. **Correct Answer: C**

### Section: (none)

## Explanation

### Explanation/Reference:

In a topology with a web server which forwards requests to an on demand router (ODR), the ODR can be set to dynamically generate and update the web server plug-in configuration file `plugin-cfg.xml`. By configuring an ODR to dynamically update `plugin-cfg.xml`, you avoid manually updating the file during administrative actions, which can affect the content.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/twve\\_odr.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/twve_odr.html)

### QUESTION 26

Which statement is true about a request made from a browser for a jsp running in an application server?

- A. The HTTP server plug-in loaded with the embedded HTTP server within the application server forwards the request to the application server.
- B. The plug-in configuration file loaded with the embedded HTTP server within the application server forwards the request to the application server.
- C. The HTTP server plug-in loaded with the HTTP server forwards the request to the embedded HTTP server within the application server. The embedded server forwards the request into the web container.

- D. The plug-in configuration file loaded with the HTTP server forwards the request to the embedded HTTP server within the application server. The embedded server forwards the request into the web container.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

When IBM HTTP Server receives a request for a JSP file, it passes the request to WebSphere Application Server - Express's servlet engine, which calls the JSP processor. The JSP processor is an internal servlet which converts a JSP file into Java source code and compiles it. The servlet that implements the JSP processor is org.apache.jasper.runtime.JspServlet.

References: [https://www.ibm.com/support/knowledgecenter/en/ssw\\_i5\\_54/rzamy/50/program/jspdef.htm](https://www.ibm.com/support/knowledgecenter/en/ssw_i5_54/rzamy/50/program/jspdef.htm)

#### QUESTION 27

An administrator would like to uninstall an instance of a multiple instance installation via response file.

How does the administrator ensure that the correct instance is uninstalled?

- A. All the features must be listed.
- B. The profile ID must point to the correct instance.
- C. The offering ID must point to the correct instance.
- D. The repository location must point to the correct instance.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.installation.nd.doc/ae/cins\\_WASv85\\_nd\\_modify\\_Win32.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.installation.nd.doc/ae/cins_WASv85_nd_modify_Win32.html)

#### QUESTION 28

Which two ways are valid ways to install applications to IBM WebSphere Application Server? (Select two.)

- A. wsadmin script
- B. JMS messaging
- C. IBM Installation Manager
- D. IBM Tivoli Access Manager
- E. Integrated Solutions Console



**Correct Answer:** AE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Deploy an application or module using the administrative console, wsadmin, programming, or deployment tools.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/crun\\_app\\_install.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/crun_app_install.html)

### **QUESTION 29**

How can an administrator reduce overhead when utilizing monitored directories?

- A. Increase the polling interval so that the process runs less often.
- B. Decrease the amount of time that the monitored directory is accessible by users.
- C. Decrease the size of the monitored directory so that larger files will not be able to be stored in it.
- D. Configure the monitored directory settings to not automatically synchronize the application once it is installed.

**Correct Answer:** A

**Section:** (none)

**Explanation**



**Explanation/Reference:**

To change the standard polling interval setting, specify a number of seconds in the Polling interval field.

Figure: Configuring the monitored directory



The image shows a screenshot of the 'Configuration' tab in the WebSphere Configuration Assistant. The 'General Properties' section is expanded, showing the 'Monitored Directory Deployment' settings. A checkbox labeled 'Monitor directory to automatically deploy applications' is checked. Below it, the 'Monitored directory' text box contains the path 's:{USER\_INSTALL\_ROOT}/monitoredDeployableApps'. The 'Polling interval' is set to '5' seconds. At the bottom of the dialog are 'Apply' and 'Reset' buttons.

References: WebSphere Application Server V8.5, July 2013, page 852

### QUESTION 30

An administrator has deployed an application that uses 30 unique SQL statements with a maximum data source connection pool size of 10.

What is the recommended prepared statement cache size for the application?

- A. 10
- B. 30
- C. 40
- D. 300

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

To determine the highest value for your cache size to avoid any cache discards, add the number of uniquely prepared statements and callable statements, as determined by the SQL string, concurrency, and the scroll type, for each application that uses this data source on a particular server. This value is the maximum

number of possible statements that can be cached on a given connection over the life of the server. Setting the cache size to this value means that you never have cache discards. In general, configure a larger cache for applications with a greater number of statements.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/udat\\_jdbcdatasorprops.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/udat_jdbcdatasorprops.html)

### QUESTION 31

What does the following JVM argument do?

`-Xverbosegclog:${SERVER_LOG_ROOT}/verbose.m%d.7/18/16M%S.%pid.txt,20,10000`

- A. It changes the default values for verbosegc logging.
- B. It changes the default location of the verbosegc logging.
- C. It configured verbosegc logging once it has already been enabled.
- D. It sets the default value for enabling and configuring verbosegc logging.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

`-Xverbosegclog[: <file> [,<X>,<Y>]]`

Causes -verbose:gc output to be written to the specified file.

If it cannot create the file (for example, if an invalid filename is passed into the command), it will redirect the output to stderr.

If you specify <X> and <Y> the -verbose:gc output is redirected to <X> files, each containing <Y> GC cycles.

The dump agent tokens can be used in the filename. See Dump agent tokens for more information. If you do not specify <file>, `verbosegc.%Y%m%d.%H%M%S.% pid.txt` is used. example: `-Xverbosegclog:newgclogname.log,7,10000`

References: <http://www-01.ibm.com/support/docview.wss?uid=swg21384096>

### QUESTION 32

What are two differences between dynamic clusters and static clusters? (Select two.)

- A. Dynamic Workload Management is enabled by default in dynamic clusters.
- B. The application placement controller can start and stop a dynamic cluster that is in automatic mode only.
- C. Using the autonomic request flow manager (ARFM) in manual mode will not affect dynamic cluster mode.
- D. Using static clusters in an Intelligent Management enabled environment will acquire some of a dynamic cluster features.
- E. When creating a static cluster using an application server template, any changes made to the template after creating the instances do not change the instances.

**Correct Answer:** AE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

A: The dynamic workload manager is enabled by default and assigns weights to the application server instances.

E: When you define a static cluster, you can select an application server template on which to base all the application server instances that you create. However, any changes that you make to the template after creating the instances do not change the instances.

References: [https://www.ibm.com/support/knowledgecenter/en/SSUP64\\_7.0.0/com.ibm.websphere.virtualenterprise.doc/odoe\\_task/rodrcompareclusters.html](https://www.ibm.com/support/knowledgecenter/en/SSUP64_7.0.0/com.ibm.websphere.virtualenterprise.doc/odoe_task/rodrcompareclusters.html)

### QUESTION 33

When creating a health policy, which condition should be selected to track requests that have a significantly decreased response time?



<https://vceplus.com//>

- A. Workload
- B. Age-based
- C. Storm drain
- D. Excessive response time

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

The Storm drain condition tracks requests that have a significantly decreased response time.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/cwve\\_odhealth.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/cwve_odhealth.html)

**QUESTION 34**

When updating an application, what is important to keep in mind?

- A. The application is only updated during the next server restart.
- B. The application is automatically stopped, updated, and restarted.
- C. The application is only updated during the next restart of the application.
- D. The application is stopped, updated, and restarted at the scheduled time.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

If the application is updated while it is running, WebSphere Application Server automatically stops the application, updates the application logic and restarts the application.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/crun\\_app\\_upgrade.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/crun_app_upgrade.html)

**QUESTION 35**

Which tool can be used to collect data to be used for monitoring and tuning the environment?

- A. Thread and Monitor Dump Analyzer
- B. Performance Monitoring Infrastructure
- C. IBM Tivoli Performance Viewer Advisor
- D. Garbage Collection and Memory Visualizer

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

WebSphere Application Server provides Performance Monitoring Infrastructure (PMI) data to help monitor the overall health of the WebSphere Application Server environment. PMI provides average statistics on WebSphere Application Server resources, application resources, and system metrics. Many statistics are available in WebSphere Application Server, and you might want to understand the ones that most directly measure your site's resources to detect problems.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/tpmf\\_monitoringhealth.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/tpmf_monitoringhealth.html)

**QUESTION 36**

An administrator notices a sudden increase in the user load that causes resource contention on the database server.

What preventive measure can the administrator take to avoid database outage?

- A. Enable surge protection.
- B. Configure Stuck connection.
- C. Reduce connection pool size.
- D. Reduce WebContainer Thread pool size.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Maximum Connection Pool Size

When determining the maximum size of the database connection pool, consider the following issues:

The total number of connections that the WebSphere Commerce cluster can open to the database should not overwhelm your database.

References: <http://www-01.ibm.com/support/docview.wss?uid=swg21358336>

**QUESTION 37**

What are two automated administrative tasks that can be done with configuration checkpoints? (Select two.)

- A. delete
- B. restore
- C. archive
- D. backup
- E. compress

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

If you want to preserve delta checkpoints, you must archive checkpoints before they are automatically deleted.

A delta checkpoint is created automatically by the product each time a configuration change is made.

Incorrect Answers:

C: The product does not have an automated function for archiving.

References: [https://www.ibm.com/support/knowledgecenter/SSEQTP\\_8.5.5/com.ibm.websphere.base.doc/ae/twve\\_archive\\_checkpoint.html](https://www.ibm.com/support/knowledgecenter/SSEQTP_8.5.5/com.ibm.websphere.base.doc/ae/twve_archive_checkpoint.html)  
[https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/cwve\\_xdsochckpt.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/cwve_xdsochckpt.html)

### QUESTION 38

When adding a repository to a federated repository configuration, which type of repository can be added only using `wsadmin` commands?

- A. File repository
- B. LDAP repository
- C. SAML repository
- D. Database repository

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Federated repositories

Supports multiple types of repositories such as file-based, LDAP, database, and custom. In WebSphere Application Server Version 8.5, file-based and LDAP repositories are supported by the administrative console. For database and custom repositories, you can use the `wsadmin` command-line interface or the configuration application programming interfaces (API).

References:

[https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/cwim\\_fedrepos.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/cwim_fedrepos.html)

### QUESTION 39

In an IBM WebSphere Application Server cluster, an administrator notices EJB requests are not evenly distributed on the cluster members during the load test.

What two things can the administrator verify in order to identify and resolve the issue? (Select two.)

- A. Ensure Dynamic Workload Management is enabled.
- B. Ensure host scoped routing optimization is enabled.
- C. Ensure PMI Workload Management counters are enabled.
- D. Ensure each server in the cluster has an equal weighted value.

E. Ensure the Web server plug-in is using the round robin algorithm.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

A: Workload management optimizes the distribution of client processing tasks. Incoming work requests are distributed to the application servers, enterprise beans, servlets, and other objects that can most effectively process the requests.

D: The server weighted round robin routing policy ensures a balanced routing distribution based on the set of server weights that have been assigned to the members of a cluster. For example, if all servers in the cluster have the same weight, the expected distribution for the cluster is that all servers receive the same number of requests. If the weights for the servers are not equal, the distribution mechanism sends more requests to the higher weight value servers than the lower weight value servers. The policy ensures the distribution that you want, based on the weights that are assigned to the cluster members.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/crun\\_srvgrp.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/crun_srvgrp.html)

#### **QUESTION 40**

When administrative security is enabled, what is the minimum administrative role needed to create a resource, install, and uninstall an application?

- A. Monitor
- B. Operator
- C. Configurator
- D. Administrator

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

An individual or group that uses the configurator role has the monitor privilege plus the ability to change the WebSphere Application Server configuration.

The configurator can perform all the daily configuration tasks. For example, a configurator can complete the following tasks: ▪ Create a resource.

- Map an application server.
- Install and uninstall an application.
- Deploy an application.
- Assign users and groups-to-role mapping for applications. ▪

Set up Java 2 security permissions for applications.

Incorrect Answers:



A: An individual or group that uses the monitor role has the least amount of privileges. A monitor can complete the following tasks: ▪ View the WebSphere Application Server configuration. ▪ View the current state of the Application Server.

C, D: Not minimal roles.

References: [https://www.ibm.com/support/knowledgecenter/en/SSAW57\\_8.5.5/com.ibm.websphere.nd.doc/ae/rsec\\_adminroles.html](https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.doc/ae/rsec_adminroles.html)



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