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Oracle WebLogic Server 12c: Advanced Administrator II

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QUESTION 1

Your development team has created a GAR deployment that enables Coherence caching for an application. The GAR file is configured to work within both storage-enabled and storage-disabled nodes.

How would you package your GAR as part of the WebLogic Server deployment process for your application? (Choose the best answer.)

- A. as an EAR module on storage-disabled nodes and standalone on storage-enabled nodes
- B. as an EAR module on storage-enabled nodes and standalone on storage-disabled nodes
- C. within a WAR on storage-disabled nodes and within an EAR on storage-enabled nodes
- D. within a WAR on storage-enabled nodes and within an EAR on storage-disabled nodes

Correct Answer: A

Managed Coherence servers are distinguished by their role in the cluster. A best practice is to use different managed server instances (and preferably different WebLogic Server clusters) for each cluster role.

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storage-enabled ?a managed Coherence server that is responsible for storing data in the cluster. Coherence applications are packaged as Grid ARchives (GAR) and deployed on storage-enabled managed Coherence servers.

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storage-disabled ?a managed Coherence server that is not responsible for storing data and is used to host Coherence applications (cache clients). A Coherence application GAR is packaged within an EAR and deployed on storage- disabled managed Coherence servers.

Reference: <https://docs.oracle.com/middleware/1212/wls/CLUST/coherence.htm#CLUST629>

QUESTION 2

You are reviewing the scheduled maintenance of your domain after adding a new cluster.

Which statement is true when configuring a migratable target within a WebLogic Server cluster? (Choose the best answer.)

- A. Allow Post-Migration Script To Run On a Different Machine is selected by default.
- B. The default server migration policy is Auto-Migrate Exactly-once Services.
- C. The participating cluster should include at least one configured server.
- D. An automatically migrated service will always be hosted on the specified User Preferred Server.

Correct Answer: D



QUESTION 3

You are using the administration console to monitor messages in a queue.

Which three tasks can be performed while doing this monitoring? (Choose three.)

- A. Create a new message in the queue.
- B. Duplicate a message.
- C. Monitor the content of a message.
- D. Delete the message from the queue.
- E. Merge two messages.
- F. Alter the ordering of the messages.

Correct Answer: CDF

QUESTION 4

What is the difference between a WebLogic Diagnostic Framework (WLDF) watch and a notification? (Choose the best answer.)

- A. A watch compares WLDF instrumentation data to a rule and sends a notification SMS text message.
- B. A notification compares WebLogic log data to a rule and notifies a watch when the rule is true.
- C. A notification compares WLDF instrumentation data to a rule and notifies a watch when the rule is true.
- D. A watch compares WLDF metric data to a rule and triggers a certain notification action.

Correct Answer: D

Reference: https://docs.oracle.com/middleware/1212/wls/WLDFC/config_notifications.htm

QUESTION 5

Your WebLogic Server (WLS) environment consists of multiple domains. Which is a true statement about WLS domains? (Choose the best answer.)

- A. Multiple domains can use the same or separate WLS installation while running on the same machine.
- B. Domains require a minimum of one managed server.
- C. Multiple domains require separate WLS installations while running on the same machine.
- D. Multiple domains require individual Node Managers while running on the same machine.
- E. Multiple domains can share the same administration server.

Correct Answer: A

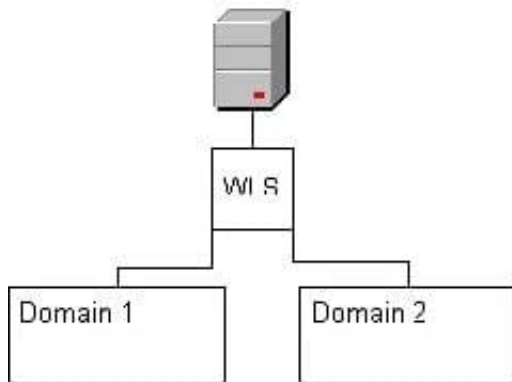


You can use a single Oracle WebLogic Server installation to create and run multiple domains, or you can use multiple installations to run a single domain.

Incorrect Answers:

B: Domains include a special WebLogic Server instance called the Administration Server, which is the central point from which you configure and manage all resources in the domain. Usually, you configure a domain to include additional WebLogic Server instances called Managed Servers.

C: A single WLS installation can have multiple domains.



D: By specifying multiple domains in the nodemanager.domains file, you can configure a single, machine-scoped Node Manager process which manages server instances belonging to multiple WebLogic domains.

E: Each domain requires its own Administration Server for performing management activities.

Reference: https://docs.oracle.com/cd/E12839_01/web.1111/e13716/understand_domains.htm#DOMCF116

QUESTION 6

You are tasked with doing a rolling upgrade of a production domain that will minimize service interruptions.

Which is a characteristic of a rolling update? (Choose the best answer.)

- A. All the managed servers and node managers need to be shut down.
- B. Configuration changes can be made during the rolling update process.
- C. An automated backup is part of the rolling update process.
- D. The machine hosting the Administration Server must be upgraded first.
- E. A major upgrade, for example 11g to 12c, can be accomplished with a rolling update.

Correct Answer: E

Rolling upgrade applies only to upgrades within a major product version. For example, you can upgrade from 10.0 to 10.3.1, but cannot upgrade from 9.0 to 10.0. Reference:

https://docs.oracle.com/cd/E15523_01/web.1111/e13754/rolling_upgrade.htm#WLUPG272



QUESTION 7

Which two automatic migration scenarios require node manager for all migratable services? (Choose two.)

- A. Consensus leasing
- B. Database leasing with no pre and post migration scripts
- C. Database leasing with pre and post migration scripts
- D. Synchronous leasing

Correct Answer: AC

When using automatic service migration, the Node Manager is required to get health monitoring information about the member servers involved, as follows:

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Consensus leasing ?Node Manager must be running on every machine hosting managed servers within the cluster.

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Database leasing ?Node Manager must be running on every machine hosting managed servers within the cluster only if pre/post-migration scripts are defined. If pre/post-migrations are not defined, then Node manager is not required.

Reference: https://docs.oracle.com/cd/E13222_01/wls/docs103/cluster/service_migration.html

QUESTION 8

You are concerned with messages being received systematically. You designed Message-Driven beans (MDB) to guarantee the most reliable way to consume messages.

In which three scenarios would JMS always redeliver a message? (Choose three.)

- A. when the onMessage() method of the MDB throws a Java error
- B. when the transaction the MDB participates in eventually fails and rolls back
- C. when the onMessage() method fails to acknowledge the reception of the message
- D. when messages are not being sent as part of a transaction
- E. when messages are non-persistent

Correct Answer: BCD

An MDB pool processes each message at least once. Potentially, a message can be process more than once:

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If an application fails, a transaction rolls back, or the hosting server instance fail during or after the onMessage() method completes but before the message is acknowledged or committed, the message will be redelivered and processed again.



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Non-persistent messages are also redelivered in the case of failure, except for the case where the message's host JMS server shuts down or crashes, in which case the messages are destroyed.

To ensure that a message is processed exactly once, use container-managed transactions so that failures cause transactional MDB work to rollback and force the message to be redelivered.

Reference: https://docs.oracle.com/cd/E13222_01/wls/docs81/ejb/message_beans.html

QUESTION 9

You are considering targeting your JMS servers to dynamic clusters to benefit from dynamic scaling. However, you have been advised to keep in mind some of the associated limitations.

What are two valid limitations and considerations for clustered JMS services? (Choose two.)

- A. Store-and-Forward agents cannot be targeted to a cluster (dynamic or mixed).
- B. WLST in offline mode does not support the get and set commands to target JMS servers to a dynamic cluster.
- C. A sub-deployment cannot be targeted to a duster.
- D. Targeting a messaging bridge to a dynamic cluster is not supported.

Correct Answer: AD

A: Store-and-Forward (SAF) Agents cannot be targeted to a Dynamic or Mixed cluster. You can target SAF Agents to Configured clusters using the default store.

D: Targeting a messaging bridge to a mixed or dynamic cluster is not supported.

Incorrect Answers:

B: WLST Offline does not support the assign command to target JMS servers to a dynamic cluster. Use the get and set command.

C: Module subdeployment targets can reference clustered JMS servers. Using a cluster targeted JMS server in a subdeployment eliminates the need to individually enumerate individual JMS servers in the subdeployment, which is particularly useful for uniform distributed destination deployment.

Reference: https://docs.oracle.com/middleware/1213/wls/JMSAD/dynamic_messaging.htm#JMSAD685

QUESTION 10

You are troubleshooting an application that uses a WebLogic server data source. You decide to execute a reset() operation on the corresponding JDBCDataSourceRuntimeMBean.

Which statement is true regarding the impact on the application that is using that data source? (Choose the best answer.)

- A. A Reset is the equivalent of a Shutdown followed by a Start.



- B. A Reset is the equivalent of a Force Suspend followed by a Resume.
- C. A Reset is the equivalent of a Suspend followed by a Resume.
- D. A Reset is the equivalent of a Force Shutdown followed by a Start.

Correct Answer: A

Reference: https://docs.oracle.com/cd/E13222_01/wls/docs91/jdbc_admin/manage.html

QUESTION 11

Poor ventilation and cooling in and around the machine that hosts your administration server and a clustered managed server causes a local hard drive failure and thus both servers crash as well.

This is the first time this crash has occurred in production but an automatic Whole Server Migration kicks in as expected. The clustered server migrates to a machine on which it has never run before, and for that reason the server cannot be started on this new machine.

Which action could have helped to launch this migrated clustered server? (Choose the best answer.)

- A. Shut down and relaunch the Node Manager.
- B. Ensure that the Administration Server is up when the server migration is being performed.
- C. First restart the Administration Server, remove this managed server from the cluster, restart it manually, and then target it back to the cluster.
- D. Use a shared disk/NFS for all the migratable servers in the cluster.
- E. Copy the Node Manager security files to the new machine that hosts your migrated server.

Correct Answer: D

There is no built-in mechanism for transferring files that a server depends on between machines. Using a disk that is accessible from all machines is the preferred way to ensure file availability. If you cannot share disks between servers, you must ensure that the contents of domain_dir/bin are copied to each machine.

Reference: http://docs.oracle.com/cd/E17904_01/web.1111/e13709/migration.htm#CLUST271

QUESTION 12

Which three WebLogic Server entities can be set up for service level migration? (Choose three.)

- A. JMS Server
- B. JOLT Service
- C. JTA Transaction Recovery Service
- D. User Defined Singleton Service
- E. JDBC Service



F. JNDI Service

Correct Answer: ACD

AC: WebLogic Server migration framework provides infrastructure and facilities to perform the manual or automatic migration of JMS-related services and the JTA Transaction Recovery Service.

D: WebLogic Server supports the automatic migration of user-defined singleton services.

Automatic singleton service migration allows the automatic health monitoring and migration of singleton services. A singleton service is a service operating within a cluster that is available on only one server at any given time.

Reference: http://docs.oracle.com/cd/E17904_01/web.1111/e13709/service_migration.htm#CLUST373

QUESTION 13

Your WebLogic domain consists of deployed applications heavily relying on JMS. Three machines, each hosting a managed server, are part of a cluster.

In order to ensure the availability of servers and JMS service on those servers, you are considering the configuration of whole server migration rather than service migration.

Which two statements are prerequisite for whole server migration but not for manual service migration? (Choose two.)

- A. A singleton service must be configured.
- B. A shared file system must be created.
- C. Each migratable server must be assigned a floating IP address.
- D. Either a database leasing service or a consensus leasing service must be configured.
- E. A database leasing service must be configured.

Correct Answer: AC

Reference: https://docs.oracle.com/middleware/11119/wls/JMSAD/advance_config.htm

QUESTION 14

A current production WebLogic Server (WLS) domain needs to be upgraded without affecting the users. What are the five steps to follow for a Rolling Update? (Choose five.)

- A. Back up the contents of your domain.
- B. Use pack and unpack to upgrade each of the servers in the machine.
- C. Shut down the servers in a single machine.
- D. Repeat the process for all machines in the domain.



- E. Restart the servers in the machine.
- F. Repeat the process for all domains in the machine.
- G. Upgrade the servers in the machine.

Correct Answer: ACDEG

A: Before you begin the upgrade process, make sure that you take any necessary precautions such as:

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Back up your applications, database schema, other application data, and domains.

*

If required, obtain latest third party plug-ins or components that are compatible with required non-Oracle components. For example, Apache Web Server libraries.

CGED: The rolling upgrade process includes stopping the Administration Server, installing the upgrade, restarting the Administration Server, and then doing the same for each Managed Server in the cluster (machine).

Reference: http://docs.oracle.com/cd/E14571_01/web.1111/e13754/rolling_upgrade.htm#WLUPG268

QUESTION 15

Your development team is considering several different types of new applications. You have been asked to advise them concerning which types can be deployed in WebLogic Server leveraging the Production Redeployment feature. Which application deployment type is NOT supported for Production Redeployment? (Choose the best answer.)

- A. enterprise applications (EAR) that contain a Coherence Grid Archive (GAR) module
- B. web service applications that are conversational or that use reliable messaging
- C. standalone Enterprise Java Bean (EJB) applications
- D. enterprise applications (EAR) that are accessed by inbound JMS messages

Correct Answer: A

Incorrect Answers:

B: Production redeployment only supports HTTP clients and RMI clients.

C, D: Enterprise Applications can contain any of the supported Java EE module types. Enterprise Applications can also include application-scoped JMS and JDBC modules.

Reference: https://docs.oracle.com/cd/E13222_01/wls/docs100/programming/versioning.html

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