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Exam : **1Z1-102**

Title : Oracle Weblogic Server 11g:
System Administration I

Version : DEMO

1.Which two statements are true about java EE shared libraries?

- A.A shared library cannot be deployed to a cluster.
- B.An application that is targeted to server1 can use a shared library that is targeted to server 2.
- C.Multiple versions of the same shared library can be deployed and be active at the same time
- D.A shared library is referenced through an application's deployment descriptor.

Answer: C,D

Explanation:

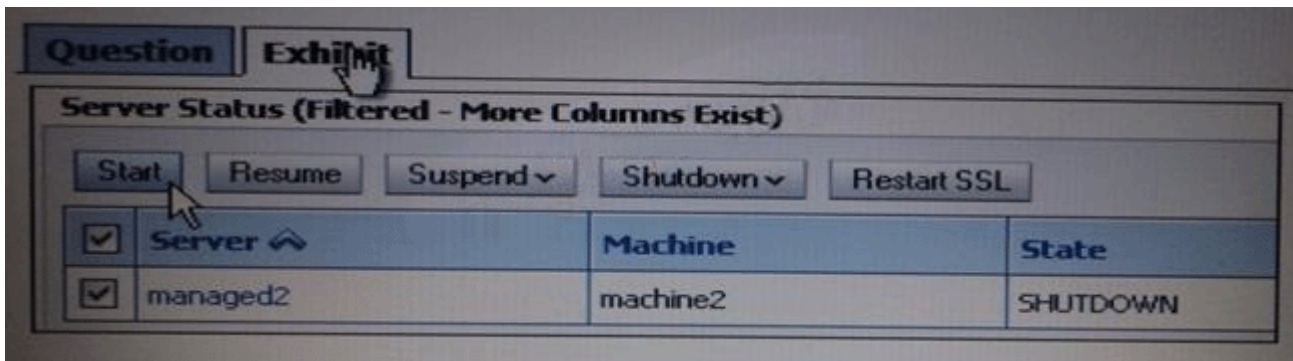
C: If more than one copy of myLibrary is registered, WebLogic Server selects the library with the highest specification version.If multiple copies of the library use the selected specification version, WebLogic Server selects the copy having the highest implementation version.

D: A Java EE application can reference a registered shared Java EE library using entries in the application's weblogic-application.xml deployment descriptor.

Reference: Referencing Shared Java EE Libraries in an Enterprise Application

http://docs.oracle.com/cd/E12840_01/wls/docs103/programming/libraries.html

2.Refer to the Exhibit.



You use the Start button in the administration console to start managed2 successfully.

Which two statements must be true?

- A.Managad2 is part of a cluster.
- B.The Administration Server is running.
- C.Managed2 has applications deployed to it.
- D.The Node Manager for machine2 is configured and running.
- E.The Node Manager for the Administration Server machine is configured and running.

Answer: B,D

Explanation:

B: The administration server must be running.Note: A WebLogic Server administration domain is a logically related group of WebLogic Serverresources.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.

D: Node Manager is a WebLogic Server utility that enables you to start, shut down, and restart Administration Server and Managed Server instances from a remote location.Although Node Manager is optional, it is recommended if your WebLogic Server environment hosts applications with high availability requirements.A Node Manager process is not associated with a specific WebLogic domain but with a machine.You can use the same Node Manager process to control server instances in any WebLogic Server domain, as long as the server instances reside on the same machine as the Node Manager

process. Node Manager must run on each computer that hosts WebLogic Server instances -whether Administration Server or Managed Server -- that you want to control with Node Manager.

3. Within your data center, the Administration and Managed Servers utilize a shared, central storage device, which server's access via NFS. In this scenario, your application files no longer need to be copied to servers across the network.

Which server attribute allows you to override this behavior?

- A. Startup Mode
- B. Staging Mode
- C. Root Directory
- D. Listen Address

Answer: B

Explanation:

The server staging mode specifies the default deployment mode for a server if none is specified at deployment time. For example, the server staging mode is used if you deploy an application or module using weblogic.Deployer and you do not specify a staging mode.

Reference:

http://docs.oracle.com/cd/E12840_01/wls/docs103/ConsoleHelp/taskhelp/deployment/SetAServerStagingMode.html

4. An EJB application is targeted to a cluster. Remote EJB clients can therefore take advantage of WebLogic Server's load balancing and failover capabilities. However, a proxy server exists between the clients and the cluster, which performs IP address translation.

Which cluster attribute should you modify to ensure that load balancing and failover work correctly?

- A. Multicast Address
- B. Persistent Store
- C. Cluster Address
- D. Migration Basis
- E. Replication Channel

Answer: C

Explanation:

Updating Proxy Service Configurations for an Expanded Cluster If your AquaLogic Service Bus configuration includes one or more proxy services that use JMS endpoints with cluster addresses, then you must also perform the following procedure using the AquaLogic Service Bus Console after adding the new managed server to the cluster: The proxy services are now configured for operation in the extended domain.

Reference: eDocs Home > BEA AquaLogic Service Bus 2.0 Documentation > Deployment Guide > Configuring a Clustered Deployment

5. You run the default startmanageWeblogic (.cmd in Windows) script as shown here:

```
startmanageWeblogic.sh server1 http://192.168.1.102:8001.
```

What does this do?

- A. It starts the administration server named server1, which is running at 192.168.1.102.8001.
- B. It starts the managed server named server1, which is running at 192.168.1.102.8001.

- C.It starts the managed server named server1 whose Node Manager is running at 192.168.1.102:8001.
D.It starts the Managed Server named server1 whose Administration Server is running at 192.168.1.102:8001.

Answer: D

Explanation:

A Managed Server is a WebLogic Server instance that runs deployed applications.It refers to the Administration Server for all of its configuration and deployment information.Usually, you use Managed Servers to run applications in a production environment.

See step 4 and 5 below in particular:

To use the WebLogic Server scripts to start Managed Servers: See Creating WebLogic Domains Using the Configuration Wizard or "Create Managed Servers" in the Administration Console Online Help.where DOMAIN_NAME is the directory in which you located the domain.By default, this directory is BEA_HOME\user_projects\domains\DOMAIN_NAME.where managed_server_name specifies the name of the Managed Server and admin_url specifies the listen address (host name or IP address) and port number of the domain's Administration Server.For example, the following command uses startManagedWebLogic.cmd to start a Managed Server named myManagedServer.The listen address for the domain's Administration Server is AdminHost: 7001:

```
c:\bea\user_projects\domains\mydomain\bin\startManagedWebLogic.cmd myManagedServer http://AdminHost:7001
```

Reference: Starting Managed Servers with a Startup Script

- 6.An application requires a JDBC data source, which you create in the domain.You name it but the administrator allot another domain name the same data source DatasourceB.

Without modifying either domain, which is the best method to ensure that the application deploys successfully in both?

- A.Create a separate application archive to use with each domain.
- B.Create a separate deployment plan file to use with each domain.
- C.Create and register a custom deployment listener.
- D.Modify the application code to determine the current domain.

Answer: B

Explanation:

A WebLogic Server deployment plan is an optional XML document that you use to configure an application for deployment to a specific WebLogic Server environment, such as a domain.

Reference: Deploying Applications To WebLogic Server, Configuring Applications for Production Deployment

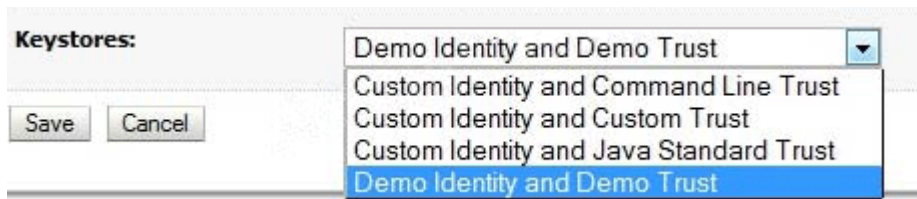
- 7.Identify three options for Keystores in a server's configuration.

- A.Demo Identity and Demo Trust
- B.Demo Identity and Java Standard Trust
- C.Java Standard Identity and Custom Trust
- D.Custom Identity and Demo Trust
- E.Custom Identity and Custom Trust
- F.Custom Identity and Command Line Trust

Answer: A,E,F

Explanation:

Please refer to the screenshot below:



Reference:

http://docs.oracle.com/cd/E23549_01/apirefs.1111/e13952/pagehelp/Corecoreserverserverconfigkeystore.html#attributes

8. When installing Oracle WebLogic Server 11g with the graphical installer, which three statements are true?

- A. You must choose either a typical or a custom installation.
- B. You install under Microsoft Windows because the graphical installer is available only for Windows.
- C. You may create a new middleware home directory or choose an existing one.
- D. You must register for critical security updates.
- E. You may install a JDK or choose one that was previously installed.

Answer: A,C,E

Explanation:

Tasks WebLogic Server Product Installation Procedure

Step 1 - Obtain the appropriate installation file for your platform

Step 2 - Complete the installation planning requirements. Ensure that your system environment meets the requirements for the installation. Also determine your Oracle Middleware home directory, and product installation home directories.

(C) When you are installing WebLogic Server, you are prompted to choose an existing Middleware home directory or specify a path to create a new Middleware home directory.

If you choose to create a new directory, the installation program automatically creates it for you.

Step 3 - Determine the appropriate installation mode for your situation

Step 4 - Determine the type of installation (A) There are two types of installation Typical or Custom. The type of installation depends on the products and sub-components you want to install.

Step 5 - Install the software

Step 6 - Create a WebLogic domain

E: The JDK selection screen.

This screen is displayed only if you selected a Custom installation. It is not displayed if you are running an Upgrade installer.

This screen displays a list of JDKs. This list contains JDKs that are available for (and common across) previous installations of all the selected WebLogic Server components.

Select the JDK that you want to install with the product.

Reference: Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server 11g Release 1, Running the Installation Program in Graphical Mode

Reference: Oracle Fusion Middleware Installation Guide for Oracle WebLogic Server 11g Release 1, Installation Overview

9.Each domain has a directory called servers that contains subdirectories for each server in the domain.Your domain has a managed server named managed1.

When will the managed1 directory be created?

- A.When the managed1 server is defined in the configuration Wizard
- B.When the domain is created
- C.When the administration server comes up for the first time
- D.When the managed1 server1 comes for the first time

Answer: D

Explanation:

This directory is created when the server is started for the first time.

10.Identify three properties required by the domain Configuration Wizard when creating a new domain.

- A.machine name
- B.Managed Server name
- C.domain startup mode
- D.domain name
- E.administrator username and password

Answer: C,D,E

Explanation:

C: Choose the Startup Mode Specify the startup mode for your domain.Either Development or Production

D: The Create WebLogic Domain window prompts you to specify the name and pathname for the domain, and initiate its creation.

E: The Configure Administrator Username and Password window prompts you to specify a username and password to be used for starting the Administration Server.

Reference: Creating WebLogic Domains Using The Configuration Wizard

http://docs.oracle.com/cd/E13179_01/common/docs92/configwiz/newdom.html

11.Which two statements are true about adding servers to a cluster?

- A.When you create a cluster, you must add at least one server to it.
- B.Only managed servers can be in a cluster.
- C.The administration server is automatically added to a new cluster.
- D.You must explicitly identify which servers belong to the cluster.

Answer:B D

Explanation:

A cluster must include at least one server.A clustered is administered through an administration server, but the cluster consists of managed servers only.

12.Consider a single JMS module that includes a connection factory as well as queue.Based on your system's requirements, the connection factory needs to be made available to all servers in the domain.The queue, on the other hand, can be targeted to only a single JMS server domain.

What is the best way to achieve the desired JMS setup?

- A.Create two subdeployments within the JMS module.
- B.Target the JMS server to the JMS module.

C.Target the JMS module to the entire domain.

D.Replace the queue with a topic.

Answer: A

Explanation:

A subdeployment is a mechanism by which JMS module resources (such as queues, topics, and connection factories) are grouped and targeted to a server resource (such as JMS servers, server instances, SAF agents, or a cluster).For example, you can group a connection factory with stand-alone queues or topics in a subdeployment targeted to a specific JMS server, which guarantees that all these resources are co-located to avoid extra network traffic.Another advantage of such a configuration would be if the targeted JMS server needs to be migrated to another WebLogic server instance, then the connection factory and all its connections will also migrate along with the JMS server's destinations.However, when stand-alone queues or topics are members of a subdeployment, a connection factory can only be targeted to the same JMS server.

Reference: Oracle Fusion Middleware Oracle WebLogic Server Administration Console Online Help 11g Release 1, Configure subdeployments in JMS system modules

13.Which three attributes are part of the configuration of an existing Managed Server and can be modified through the" administration console?

A.name of the server

B.the cluster it is in

C.the machine it runs on

D.its replication group

E.whether it is in Development Mode or Production Mode

F.that it should become the Administration Server for the domain

Answer: B,C,D

Explanation:

B: Attribute label: Cluster The cluster to which this server belongs.If set, the server will listen for cluster multicast events.This is a configurable attribute.

C: Attribute label: Machine

The WebLogic Server host computer (machine) on which this server is meant to run.

This is a configurable attribute.

D: Server --> Configuration --> Cluster

A WebLogic Server cluster is a group of servers that work together to provide a more scalable, more reliable application platform than a single server.

Use this page to specify a server's primary and secondary replication group, cluster weight, and the interface address used to handle multicast traffic.

Attribute label: Replication Group Description: Defines preferred clustered instances considered for hosting replicas of the primary HTTP session states created on the server.

Reference: BEA WebLogic Server 8.1 Documentation, Server --> Configuration --> General

14.Which can be associated with multiple domains?

A.Cluster

B.Server Log

C.Node Manager

D.Administration Server

Answer: C

Explanation:

A Node Manager process is not associated with a specific WebLogic domain but with a machine.You can use the same Node Manager process to control server instances in any WebLogic Server domain, as long as the server instances reside on the same machine as the Node Manager process.

Reference: Using Node Manager to Control Servers

Reference: Understanding WebLogic Server Clustering

http://docs.oracle.com/cd/E11035_01/wls100/cluster/overview.html

15. Identify two supported methods of deploying a JMS module to a domain.

- A. Create a module by using the administration console.
- B. Load a module into the WebLogic database.
- C. Include a module file within a web application archive.
- D. Include a module file within an enterprise application archive.
- E. Define a module within an existing JDBC module.

Answer: A,D

Explanation:

A: Main Steps for Creating Packaged JMS Application Modules Follow these steps to configure a packaged JMS module: If necessary, create a JMS server to target the JMS module to, as explained in "Configure JMSServers" in the Administration Console Online Help. Create a JMS system module and configure the necessary resources, such as queues or topics, as described in "Configure JMS system modules and add JMS resources" in the Administration Console Online Help. The system module is saved in config\jms subdirectory of the domain directory, with a "-jms.xml" suffix. Copy the system module to a new location, and then: Give the module a unique name within the domain namespace. Delete the JNDI-Name attribute to make the module application-scoped to only the application. Add references to the JMS resources in the module to all applicable J2EE application component's descriptor files, as described in Referencing a Packaged JMS Application Module In Deployment Descriptor Files. Package all application modules in an EAR, as described in Packaging an Enterprise Application With a JMS Application Module. Deploy the EAR, as described in Deploying a Packaged JMS Application Module.

D: JMS application modules can be packaged as part of an Enterprise Application Archive (EAR), as a packaged module. Packaged modules are bundled with an EAR or exploded EAR directory, and are referenced in the weblogic-application.xml descriptor. The packaged JMS module is deployed along with the Enterprise Application, and the resources defined in this module can optionally be made available only to the enclosing application (i.e., as an application-scoped resource). Such modules are particularly useful when packaged with EJBs (especially MDBs) or Web Applications that use JMS resources. Using packaged modules ensures that an application always has required resources and simplifies the process of moving the application into new environments.

Reference: Packaging JMS Application Modules In an Enterprise Application

16. Which statement is true about the java Node Manager?

- A. It runs on Windows not on Linux
- B. In its secure form, it uses one-way SSL.
- C. It does not use the nodemanager.domains file, whereas the script-based Node Manager.

D.Unlike the script based Node Manager, it should not be run as an operating system service

Answer: B

Explanation:

Node Manager security relies on a one-way SSL connection between the client and server.

Reference: Oracle Fusion Middleware Oracle WebLogic Server Administration Console Online Help 11g Release 1, Configuring Java-based Node Manager Security

http://docs.oracle.com/cd/E21764_01/web.1111/e13740/java_nodemgr.htm#i1068397

17.Which two statements are true about a WebLogic domain?

A.It is the basic administrative unit of WebLogic Server.

B.It is an optional administrative construct to organize groups of WebLogic

C.Administration Servers are defined within a domain, but Managed Servers

D.You must first have a domain to define a WebLogic Server cluster.

E.Every domain has one Administration Server and at least one managed server

Answer: A,D

Explanation:

A: A domain is the basic administration unit for WebLogic Server instances.

D: To define a WebLogic Server cluster there must be a domain:

Note: Before you start the Managed Servers in a domain, start the Administration Server.When you start a standalone or clustered Managed Server, it contacts the Administration Server for its configuration information.In this way, the Administration Server operates as the central control entity for the configuration of the entire domain.

Reference: Configuring and Managing WebLogic Server

http://docs.oracle.com/cd/E13222_01/wls/docs81/adminguide/overview_domain.html

18.Which two statements are true about multicast communication within a cluster?

A.Multicast can be used for cluster heartbeat messages.

B.Multicast is used to replicate session state between servers.

C.Multiple clusters can share the same multicast address and port.

D.You may disable multicast on individual cluster members.

E.Multicast traffic is often limited to a single subnet.

Answer: A,E

Explanation:

A: WebLogic Server instances in a cluster communicate with one another using two basic network technologies:

* IP sockets, which are the conduits for peer-to-peer communication between clustered server instances.

* IP unicast or multicast, which server instances use to broadcast availability of services and heartbeats that indicate continued availability.

E: In many deployments, clustered server instances reside within a single subnet, ensuring multicast messages are reliably transmitted.However, you may want to distribute a WebLogic Server cluster across multiple subnets in a Wide Area Network (WAN) to increase redundancy, or to distribute clustered server instances over a larger geographical area.

Reference: Using WebLogic Server Clusters, Communications In a Cluster

http://docs.oracle.com/cd/E11035_01/wls100/cluster/features.html

19. Identify two true statements about an Oracle WebLogic Server JMS Connection Factory.

A. A default JMS Connection Factory exists and is named `weblogic.jms.connections`

B. A Connection Factory can be targeted to only one WebLogic Server.

C. A JMS Connection Factory's Default Priority and Default Time-to-Live attribute cannot be modified after the Connection Factory is created.

D. A JMS Connection factory can be created as a system module resource within the administration console.

Answer: C,D

Explanation:

Reference: Programming WebLogic JMS, Understanding WebLogic JMS

20. In WLST, you enter the shutdown () command with no arguments.

Which statement is true in this case?

A. The server you are connected to will shut down.

B. The command does a "Force" shutdown.

C. The command blocks user interaction.

D. The command has a timeout of 30,000 milliseconds.

Answer: A

Explanation:

The WLST life cycle shutdown command gracefully shuts down a running server instance or cluster.

Reference: WebLogic Scripting Tool, Life Cycle Commands