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Oracle WebLogic Server 12c Essentials

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QUESTION 1

A customer wants to improve the availability of a web application and provide more predictable scalability

when scaling out the application.

Which Feature of WebLogic should you recommend to help solve this problem?

A. Oracle Web Grid

B. ActiveCache

C. Coherence Grid Edition

D. WebLogic Session Replication

E. Coherence Web Edition

Correct Answer: C

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Built on top of Oracle Coherence (Coherence), Coherence*Web: / brings Coherence data grid\\'s data scalability, availability, reliability, and performance to in- memory session management and storage. / can be deployed to many mainstream application servers such as Oracle GlassFish Server, Oracle WebLogic Server, IBM WebSphere, Tomcat, and so on

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Coherence*Web enables HTTP session sharing and management across different Web applications, domains, and heterogeneous application servers. Session data can be stored in data caches outside of the application server, thus freeing application server heap space and enabling server restarts without losing session data.

Incorrect:

A: No such thing Oracle Web Grid

C: Grid Edition licensing includes the unlimited use of Real Time Clients which may be of the following two types: Real Time Cluster Member Client Real Time Extend/TCP Client Reference: Oracle Coherence User\\'s Guide for Oracle Coherence*Web

QUESTION 2

WebLogic 12c, the Maven plug-in has been enhanced with which Maven goal?

A. wls:unzip, wls:install-domain, wls:start-domain, wls:wlst, wls:appc

B. wls:install, wls:install-domain, wls:start-domain, wls:wlst, wls:appc

C. wls:unzip, wls:create-domain, wls:start-domain, wls:wlst, wls:appc

D. wls:install, wls:create-domain, wls:start-server, wls:wlst, wls:appc:

Correct Answer: D

wls-maven-plugin--Delivered in WebLogic Server 12c, provides enhanced functionality to install, start and stop servers, create domains, execute WLST scripts, and compile and deploy applications.

Reference: Developing Applications for Oracle WebLogic Server, Using the WebLogic Development Maven Plug-In

QUESTION 3

A customer has a web application with HTTP Sessions that need to be replicated to a backup site that is more than 100 miles away from the primary site, connected over the Internet. Which type of session replication in WebLogic is recommended?

A. MAN Replication

B. WAN Replication

C. Synchronous Replication

D. Asynchronous Replication

E. Database Replication

Correct Answer: D

WAN HTTP Session State Replication

Resources in a wide area network (WAN) are frequently spread across separate geographical regions. In addition to requiring network traffic to cross long distances, these resources are often separated by multiple routers and other network bottle necks. Network communication in a WAN generally has higher latency and slower interconnect. Slower network performance within a WAN makes it difficult to use a synchronous replication mechanism like the one used within a MAN. WebLogic Server provides failover across clusters in WAN by using an asynchronous data replication scheme.

Note:

HTTP Session State Replication

Weblogic Server uses two methods for replicating HTTP session state across clusters:

in-memory replication

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Using in-memory replication, WebLogic Server copies a session state from one server instance to another. The primary server creates a primary session state on the server to which the client first connects, and a secondary replica on another WebLogic Server instance in the cluster. The replica is kept up-to-date so that it may be used if the server that hosts the servlet fails.

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JDBC-based persistence In JDBC-based persistence, WebLogic Server maintains the HTTP session state of a servlet or JSP using file-based or JDBC-based persistence. JDBC-based persistence is also used for HTTP session state replication within a Wide Area Network (WAN).

QUESTION 4

A customer has a critical, performance-sensitive web application that connects to a multimode Oracle RAC database. Which feature of WebLogic can provide signification benefit?

A. The Web Session Affinity feature of Active GridLink for RAC.

B. WebLogic Clustering

C. The Transaction Affinity feature of Active GridLink for RAC

D. Coherence*Web Session Replication

Correct Answer: C

Active GridLink for Oracle RAC In Oracle WebLogic Server 10.3.4, a single data source implementation has been introduced to support an Oracle RAC cluster. It responds to FAN events to provide Fast Connection Failover (FCF), Runtime Connection Load-Balancing (RCLB), and RAC instance graceful shutdown. XA affinity is supported at the global transaction Id level. The new feature is called WebLogic Active GridLink for RAC; which is implemented as the GridLink data source within WebLogic Server.

Note:

* The WebLogic Server JDBC subsystem has supported Oracle RAC since WLS version 9.0, originally developed for Oracle9i RAC. This support is based on a particular type of data source configuration, called a multi data source. A multi data source is a data source abstraction over one or more individual data sources. It serves JDBC connections from each of the member data sources according to a specified policy. A RAC multi data source configuration requires that each member data source obtain connections to a particular RAC instance.

Reference: How-To: Use Oracle WebLogic Server with a JDBC GridLink Data Source

QUESTION 5

What does the Fast Connection Failover feature of Active GridLink for RAC provide?

A. instant notification of a RAC node failure so applications never have to retry a transaction that was sent to a node that failed during the transaction

B. near-instant notification of the failure of a RAC node failure that minimizes the possibility connection to a failed node being provided to an application

C. application level notification of a failed RAC node such that an application can retry a transaction if required

D. faster failover for Multi Datasources

E. guaranteed transaction high availability when interacting with an Oracle RAC Database

Correct Answer: B

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WebLogic Server supports Fast Connection Failover, a Oracle feature which provides an application independent method to implement RAC event notifications, such a detection and cleanup of invalid connections, load balancing of available connections, and work redistribution on active RAC instances.

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A GridLink data source uses Fast Connection Failover and responds to Oracle RAC events using ONS. This ensures that the connection pool in the GridLink data source contains valid connections (including reserved connections) without the need to poll and test connections