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Oracle Enterprise Manager 12c Essentials

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QUESTION 1

The Connector Framework for Oracle Enterprise Manager resides on _____ .

- A. Oracle Management Service (OMS)
- B. Oracle Fusion Applications
- C. Grid Control Console
- D. Memory Access Module

Correct Answer: A

The Connector Framework is installed to the OMS home. The \$ORACLE_HOME in the procedure below refers to the OMS home.

Note:

To download and install the Connector Framework, do the following:

1.
Download the Connector Framework installable files from OTN by clicking Downloads, then Enterprise Manager.
2.
Stop OMS by running: \$ORACLE_HOME/opmn/bin/opmnctl stopall
3.
Start the Oracle Universal Installer (OUI) by running the following command:

For Linux or Unix:

\$ORACLE_HOME/oui/bin/runInstaller

For Windows: \$ORACLE_HOME\oui\bin\setup
4.
When prompted by OUI, locate products.xml in the installation source directory:
connectors/framework/10.2.0.2/1.0/source/Disk1/stage
5.
Follow the instructions in the OUI screens.
6.
Access the Enterprise Manager web console from one of the following URLs:

http:// server:port/em/connector/ManagementService

https://server:port/em/connector/ManagementService

Reference: Oracle Enterprise Manager Connector Framework Release Notes. Installing the Connector Framework

QUESTION 2

Which three activities can you perform by utilizing the monitoring templates in Oracle Enterprise Manager?

- A. Apply standardized monitoring settings across managed targets.
- B. Create once, and then apply monitoring and policy settings as needed.
- C. Apply a template only to targets of the same type.
- D. Clone templates across VMs.
- E. Export templates directly to tape.

Correct Answer: ABC

Monitoring templates simplify the task of standardizing monitoring settings across your enterprise by allowing you to specify the monitoring settings once and apply them to your monitored targets. This makes it easy for you to apply specific monitoring settings to specific classes of targets throughout your enterprise. For example, you can define one monitoring template for test databases and another monitoring template for production databases.

Reference: Oracle Enterprise Manager Administration, Monitoring Templates

QUESTION 3

Which agent configuration would you use for a single host that is running an Oracle 10g Database, an Oracle 11g Database, and an Oracle WebLogic Server?

- A. One agent for the database and one agent for the WebLogic Server
- B. One agent for all three
- C. One agent for each
- D. No agents required with SSL

Correct Answer: B

QUESTION 4

What two prerequisites actions must a user perform to create Virtual Database (VDC) in Oracle Enterprise Manager Ops Center?

- A. Associate a network domain with Server Pools
- B. Associate a public cNet with Server Pools.
- C. Create one or more Server Pools.

D. Create one or more accounts.

E. Create one or more vServer types.

Correct Answer: CD

The following procedures describe the steps to create a vDC:

*

Discover Oracle VM Server for x86

*

Set up the Network

*

(C) Set up the Server Pool

*

Set up the Storage

*

Create a Virtual Datacenter

*

(D) Create an Account

*

Create and Assign Cloud User to Accounts

*

Cloud User View and Actions

D: To deploy Infrastructure-as-a-Service (IaaS) cloud platform service, Oracle Enterprise Manager Ops Center provides the vDC Management feature. You must have the Cloud Administrator role to set up the infrastructure and create virtual datacenters in your enterprise. The physical resources allocated to a vDC are entitled to accounts as virtual resources under quotas set by the cloud administrator. Accounts provide the required capabilities to manage the allocated resources. For each vDC, create accounts that serve as a container for virtual resources. The allocated resources of vDC are entitled to accounts, and the accounts are in turn entitled to cloud users. A cloud user uses the allocated resources to deploy, and manage the applications.

Reference: Oracle Enterprise Manager Ops Center, Configuring a Virtual Datacenter

QUESTION 5

You are responsible for a mass development of the management agent. Which is the function you access through the Enterprise Manager console for this purpose?

- A. Agent Download
- B. Agent Deploy
- C. Clone Agent
- D. nfsAgentInstall

Correct Answer: D

You can use the nfsagentinstall script to install Oracle Management Agents (Management Agent) with the help of a central, shared Oracle home of an existing Management Agent.

Note:

If you want to install additional Management Agents on hosts that share a mounted drive where a Management Agent is already installed, then the best option is to use the software binaries of the shared Oracle home from the mounted drive

and configure the remote hosts to be managed by that Management Agent, thus capitalizing on the NFS visibility and saving hard disk space on the remote hosts. You can achieve this in GUI as well as in silent mode.

While the Shared Agent Deployment Wizard helps you install such Management Agents in GUI mode, the nfsagentinstall script helps you install in silent mode.

Much like the Shared Agent Deployment Wizard, the nfsagentinstall uses the software binaries from the shared Oracle home, and configures an EMSTATE directory on each of the remote destination hosts for storing configuration files such

as emd.properties, targets.xml, log files, and so on. Reference: Installing Oracle Management Agent Using Shared Oracle Home Using nfsagentinstall Script

QUESTION 6

Identify three consolidation choices handled by Oracle Enterprise Cloud Control Consolidation Planner.

- A. Physical-to-virtual
- B. Database consolidation on Exadata
- C. Application consolidation on Exalogic
- D. WebLogic consolidation on Exalytics
- E. Virtual-to-physical

Correct Answer: ABC

Using Enterprise Manager, you can transform existing data centers into a Cloud environment. Before setting up a Cloud, you should map out your infrastructure requirements, such as the physical and virtual networks, storage arrays, applications and so on.

The Enterprise Manager Consolidation Planner is a powerful tool that helps administrators plan the Cloud architecture. It allows you to identify source and destination targets and applicable technical and functional constraints such as where the application can reside, and so on. You can generate consolidation advisories that may include plans to move from Physical to Virtual (P2V) (A) , Physical to Physical (P2P), or Physical to an Exadata solution (B). The Consolidation

Planner can also be used to identify the database consolidation plan which is helpful when setting up Database-as-a-Service (DBaaS).

QUESTION 7

Which three configuration management functions are included in the Oracle Enterprise manager WebLogic Management Pack Enterprise Edition?

- A. Comparing user files that are not associated with the Oracle Middleware home
- B. Tracking configuration drift
- C. Detecting policy violations
- D. Tracking memory drift
- E. Generating WebLogic regulatory compliance exceptions
- F. Comparing configurations across WebLogic Server domains

Correct Answer: BEF

The WebLogic Server Management Pack Enterprise Edition provides comprehensive lifecycle management capabilities for middleware software and its underlying hardware that help customers to maximize value of their IT assets, increase the quality of IT services, reduce the cost of managing IT, and meet IT compliance requirements. Key configuration management related features of the pack include the following:

*

Automate discovery of configuration items

*

Detect configuration changes in real-time and track changes historically

*

(B) Compare configurations to reduce "configuration drift" and when undesired differences are detected, synchronize the configurations to make them the same again

*

Correlate both real-time and historical configuration changes with performance metrics *(E) Ensure compliance with unique business policies including former BEA Guardian signatures in addition to standards such as Sarbanes-Oxley (SOX) and Payment Card Industry (PCI)

F: Manage multiple domains centrally

Reference: Weblogic Server Management Pack Enterprise Edition, Data Sheet

QUESTION 8

Which role is needed to create Incident Rules in Oracle Enterprise Manager?

- A. EM_ALL_ADMINISTRATOR
- B. EM_CBA_ADMIN
- C. EM_SYSMAN
- D. EM_CLOUD_ADMINISTRATOR
- E. EM_USER

Correct Answer: D

Enterprise Manager contains three built-in roles for the Database Cloud Service Portal, namely:

M_CLOUD_ADMINISTRATOR: Users with this role can set up and manage the cloud infrastructure. This role is responsible for deploying the cloud infrastructure (servers, zones, storage, and networks) and infrastructure cloud operations for

performance and configuration management.

EM_SSA_ADMINISTRATOR: Users with this role can define quotas and constraints for the self service users and grant them access privileges. Users with this role also have provisioning and patching designer privileges that allow them to

create and save deployment procedures, create and view patch plans, and support the plug-in lifecycle on the Management Agent.

EM_SSA_USER: Users with this role, by default, can only access the Self Service Portal. An administrator with the EM_SSA_ADMINISTRATOR role can provide additional privileges that allow users with the EM_SSA_USER role to access

other features in Enterprise Manager.

Note:

M_CLOUD_ADMINISTRATOR

Enterprise Manager user for setting up and managing the infrastructure cloud. This role could be responsible for deploying the cloud infrastructure (servers, pools, zones) and infrastructure cloud operations for performance and configuration

management.

Incorrect:

Not A: EM_ALL_ADMINISTRATOR

Role has privileges to perform Enterprise Manager administrative operations. It provides Full privileges on all secure resources (including targets) Not B: EM_CBA_ADMIN Role has privileges to manage Chargeback Objects. It provides the

ability to create and view chargeback plans, chargeback consumers, assign chargeback usage, and view any CaT targets.

Not E: EM_USER

Role has privilege to access Enterprise Manager Application.

Reference: Oracle Enterprise Manager Cloud Administration Guide

QUESTION 9

Which statement is true about Oracle Enterprise Manager Cloud and Virtualization management?

- A. It can perform live migration of the Hypervisor.
- B. It can perform live migration of ANSI-compliant Virtual Machines.
- C. It can perform live migration of Oracle VMs.
- D. It can perform live migration of storage pools.

Correct Answer: C

Live Migration

To take advantage of Enterprise Manager Ops Center's live migration capability, the server pool must be configured with the following:

*

Oracle VM for SPARC 2.1 or higher (2.2 is recommended)

*

The SPARC T4 server has a minimum firmware level of 8.1.1 (8.2.0f or higher is recommended)

*

All networks and storage libraries are physically presented to all servers in the server pool as well as being defined in Enterprise Manager Ops Center

*

All CDOMs have network connectivity to all other CDOMs in the server pool.

*

The agent on the CDOMs is must be online.

Reference: Best Practices for Building a Virtualized SPARC Computing Environment

QUESTION 10

What method does Oracle Enterprise Manager Cloud Control use for automatic discovery?

- A. Ping
- B. Telnet
- C. NCMP

D. ICMP

E. Socket Connect

Correct Answer: A

Hosts are discovering Unmanaged Hosts using IP Scan. The IP Scan used ping.

Reference: Oracle Enterprise Manager Cloud Control Administrator's Guide, Discovering and Monitoring Targets

QUESTION 11

You need a workflow of tasks that must be performed for a particular lifecycle management activity.

What Oracle Enterprise management functionality can you use to provide this?

A. Deployment Procedures

B. Connector Framework

C. Configuration Control

D. Diagnostics Pack and Tuning Pack

Correct Answer: A

Enterprise Manager provides a framework for automating, orchestrating, and tracking tasks that can be run on multiple Oracle homes. You can perform complex software life cycle management activities such as provisioning, patching, upgrade, and so on from the Cloud Control console. The workflow of all the tasks that need to be performed for a particular life cycle management activity is encapsulated in a Procedure. A Procedure is a hierarchical sequence of provisioning steps, where each step may contain a sequence of other steps. It provides a framework where specific applications and procedures can be built.

Reference: Oracle Enterprise Manager Lifecycle Management Administrator's Guide, About Deployment Procedures

QUESTION 12

What order of steps would you use to display a virtual assembly with Oracle Enterprise manager?

A. Create an assembly with Oracle Virtual Assembly Builder Studio; upload the assembly to the software library; deploy, and then manage with Oracle Enterprise manager.

B. Create an assembly with Oracle Virtual Machine Builder Studio; save the software library; deploy, and then manage with Oracle Enterprise Manager.

C. Create an assembly with Oracle Virtual Machine Builder Studio; upload the assembly to the repository; deploy, and then manage with Oracle Enterprise manager.

D. Create an assembly with Oracle Application Express; upload the assembly to the repository; deploy, and then manage with Oracle Enterprise manager.

Correct Answer: A

Note:

*

Step 1: Oracle Virtual Assembly Builder

Oracle Virtual Assembly Builder makes it possible for administrators to quickly configure and provision entire multi-tier application topologies onto virtualized and cloud environments. It provides a framework for capturing the configuration of

existing software components and packaging them as self-contained building blocks known as appliances. These appliances can then be easily connected to form application blueprints known as assemblies. This innovative approach makes

it practical for complex enterprise applications to easily be customized and provisioned in their entirety with minimal to no manual intervention onto virtualized and cloud environments.

*

Step 2 Software Library

The Software Library Administration console allows you to configure and administer Software Library. To start using the Software Library, you must add at least one upload file storage location (OMS Shared location, or OMS Agent location)

on the host where the OMS is running. A storage location in Software Library represents a repository of files, these files are either uploaded by Software Library, or generated and saved by some user-owned process.

QUESTION 13

What four Cloud Configuration Management challenges can Oracle Enterprise manager help you to monitor, track, and manage?

- A. Virtual server sprawl
- B. Dynamic topology changes
- C. Rogue multi-tenant memory attachment
- D. Keeping within compliance, rules, and standards
- E. Drift from predefined service templates
- F. Monitoring of SQLNET in Public Clouds

Correct Answer: ABDE

A:

*

Configuration Management tailored for challenges in Cloud environment Challenge: Virtual server sprawl Feature: Inventory tracking, ongoing discovery

*

Drive asset utilization up by up to 70%. Eliminate Virtual Machine (VM) sprawl. Cut configuration management effort by 90%. Reduce provisioning effort by 75%.

Oracle Enterprise Manager provides an integrated and cost-effective solution for complete physical and virtual server lifecycle management.

B: Configuration Management tailored for challenges in Cloud environment Challenge: Dynamic topology changes (owing to elasticity) Feature: Topology mapping, dependency tracking

D: Oracle Enterprise Manager Compliance Management solution provides out-of-the-box compliance frameworks (for example, PCI and CIS) and compliance standards to map to Compliance Standard rules. This mapping enables you to visualize how noncompliant settings and actions will affect any compliance framework that an organization follows.

E:

*

Configuration Management tailored for challenges in Cloud environment Challenge: Drifts from pre- defined Service Feature: Configuration Baseline, Drift Tracking Topology mapping, dependencyConfiguration Baselines, ventory tracking, Drift

*

Oracle Enterprise Manager Configuration Management eliminates manual and time-consuming task related to Discovery, Deployment of Management agents, Inventory Tracking, Configuration Drift, Detailed Configuration Search and Compliance Management for reporting and management of industry and regulatory compliance standards.

QUESTION 14

Which feature provides real-time change detection?

- A. Grid Control
- B. Configuration Change Console
- C. Application Configuration Console
- D. Database Control

Correct Answer: B

Configuration Change Console adds:

*

Real-time change detection

*

Out-of-box policies, compliance assessment and compliance dashboard

*

Reconciliation with change management systems

*

Helps ensure compliance with regulatory and industry standards such as Sarbanes-Oxley and PCI

Reference: Oracle Enterprise Manager 10g Configuration Management Pack

QUESTION 15

Identify the correct sequence of processes involved in developing plug-ins for Oracle Enterprise Manager.

- A. Design, Develop, Validate, and Package
- B. Design, Develop, Package, and Validate
- C. Develop, Design, Validate, and Package
- D. Design, Validate, Develop, and Package

Correct Answer: A

Developing a plug-in involves:

1.
Designing the set of entities to be included in the plug-in
2.
Defining the metadata that describes them to Enterprise Manager
3.
Packaging and delivering the plug-in so that users can deploy and use it in Enterprise Manager installations

Note: The EDK archive contains the following directories: \bin Contains the empdk utility, which you use to: Validate the structure of your plug-in Package your plug-in Convert the metadata for existing (pre-Cloud Control 12) plug-ins to the new metadata formats

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