Oracle Enterprise Manager 11g Grid Control Essentials

Course Summary

Description

This three day class covers the administration of Oracle Enterprise Manager 11g Grid Control. Oracle Grid Control delivers centralized management functionality for the complete Oracle IT infrastructure, including systems running Oracle and non-Oracle applications. Students will gain knowledge on the configuration and monitoring of the Oracle Grid Control framework. The student will also learn how to monitor and manage Oracle and non-Oracle applications. Hands-on lab exercises help students learn how use the robust features of Grid Control to manage, monitor, and administer their data center. This course is designed for the DBA, system designer or system architect who is familiar with the Oracle database. The student will also learn how to apply industry “best practices” in monitoring and managing Oracle Grid Control in an enterprise environment.

Objectives

At the end of this course, students will be able to:

- Describe concepts and different components of the Grid Control Architecture
- Use system monitoring features to monitor Oracle environment monitor various targets using Grid Control (Oracle and non-Oracle) Create dashboards and reports
- Understand how to backup OMS and the Repository Define and Monitor Services and Service Levels
- Create Groups to help manage your environment
- Determining the best practices in keeping Grid Control healthy

Topics

- Grid Control Architecture
- Setting Up Enterprise Manager Grid Control
- Managing and Monitoring Grid Control
- Managing Hosts
- Managing Groups
- Managing Systems and Services
- Monitoring Targets
- Grid Control Administration & Monitoring
- Job Systems
- Information Publisher
- Provisioning and Patching Automation
- Configuration Management
- Extending Grid Control
- Deploying management plug-ins

Audience

This course is designed for the DBA, system designer or system architect who is familiar with the Oracle database.

Prerequisites

- The student must be familiar with Oracle 10g/11g databases to have general understanding of the Application Server Familiarity with Application Server Control or Database Control
- Knowledge of fundamental Linux commands (such as ls and cp) and a Linux text editor
- Oracle Database 10g: Administration

Duration

Three days

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... to Your Success!"

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Course Outline

I. Grid Control Architecture
- A. Describing the components of Grid Control
- B. Explaining the architecture of Grid Control
- C. Describing the target types managed by Grid Control
- D. Explaining the Grid Control Console pages and its functionalities
- E. Discussing the application of the Maximum Availability Architecture to a Grid Control environment

II. Setting Up Enterprise Manager Grid Control
- A. Configuring Grid Control to set up additional administrators
- B. Identifying the types of privileges used in Grid Control
- C. Using roles to assign privileges to groups of administrators
- D. Setting up preferred credentials to simplify access to managed targets

III. Managing and Monitoring Grid Control
- A. Understanding out-of-box monitoring features
- B. Changing metric settings
- C. Creating and applying Monitoring Templates
- D. Setting up email notification for alerts and corrective actions
- E. Creating User-Defined Metrics Defining Notification
- F. Schedules Defining Corrective Actions Creating Blackouts

IV. Managing Hosts
- A. Managing Oracle Databases
- B. Explaining the Database Performance Management features of Grid Control
- C. Explaining the Database Administration features of Grid Control Explaining the Database Maintenance features of Grid Control Comparing Database configurations
- D. Examining init parameters

V. Managing Groups
- A. Defining groups
- B. Describing the usage of groups
- C. Creating groups
- D. Using dashboards to monitor groups
- E. Applying monitoring templates to groups
- F. Using notification rules on groups

VI. Managing Systems and Services
- A. Defining systems and services
- B. Creating a service based on a system
- C. Defining and monitoring the availability of a service
- D. Discussing the use of beacons
- E. Defining and monitoring service levels
- F. Explaining Root Cause Analysis (RCA)

VII. Monitoring Targets
- A. Identifying out-of-box monitoring features
- B. Changing metric settings
- C. Creating and applying monitoring templates
- D. Using notifications
- E. Defining corrective actions
- F. Creating notification rules
- G. Creating User-Defined Metrics (UDMs)
- H. Using blackouts

VIII. Grid Control Administration & Monitoring
- A. Monitoring the availability of Grid Control components
- B. Management monitoring the performance of the Management Server, Repository, and the Agent
- C. Identifying Log and Trace Files
- D. Identifying the various command line utilities that can be used to control the Grid Control components
- E. Identifying startup and shutdown procedures for the Grid Control components
- F. Determining the best practices in keeping Grid Control healthy
- G. Discussing backup of the OMS and the Repository
- H. Monitoring EM Web site Web Application

IX. Job Systems
- A. Defining jobs
- B. Using pre-defined jobs
- C. Creating user defined jobs
- D. Creating multitask jobs
- E. Viewing job activity
- F. Using job operations
- G. Purging jobs
- H. Enabling job notifications

X. Information Publisher
- A. Viewing and customizing Oracle-provided reports
- B. Creating custom reports
- C. Creating custom reports by using the management repository and its base views to generate a report
- D. Scheduling reports
- E. Sharing reports with the entire business community

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Course Outline (cont'd)

XI. Provisioning and Patching Automation
- A. Discussing software lifecycle management
- B. Defining provisioning and patching
- C. Discussing provisioning concepts
- D. Defining the software library
- E. Configuring the software library
- F. Defining deployment procedures
- G. Defining bare metal provisioning

XII. Configuration Management
- A. Explaining the need for configuration management
- B. Describing configuration management
- C. Viewing configurations of managed targets
- D. Comparing configurations of managed targets
- E. Viewing configuration summary for managed targets
- F. Defining the Client System Analyzer
- G. Defining collection tag associations

XIII. Extending Grid Control
- A. Identifying the available management plug-ins
- B. Discussing the benefits of managing third-party components with Grid Control

XIV. Deploying management plug-ins
- A. Explaining management connectors in Grid Control