

Oracle Grid Control: Implementation & Administration Course Summary

Description

This class covers the implementation and administration of Oracle Enterprise Manager 10g Grid Control. Oracle Enterprise Manager 10g Grid Control delivers centralized management functionality for the complete Oracle IT infrastructure, including systems running Oracle and non-Oracle applications. Class participants will gain knowledge on the installation, 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.

Objectives

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

- Describe concepts and different components of the Grid Control Architecture
- Understand the steps involved in the installation of the Oracle Management Service and Management Repository.
- Install the Oracle Management Agent
- Use system monitoring features to monitor Oracle environment
- Monitor various targets using Grid Control (Oracle and non-Oracle)
- Use Grid Control features, like cloning and patching
- Understand how to backup OMS and the Repository
- Define and Monitor Services and Service Levels
- Create Administrators and Roles
- Create Groups to help manage your environment
- Determining the best practices in keeping Grid Control healthy

Topics

- Grid Control Concepts & Architecture
- Grid Control Installation & Patching
- Grid Control Agent Deployment & Patching on targets
- Monitoring targets using Grid Control
- Grid Control Administration & Monitoring, Configuration

Audience

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 implementing, monitoring and managing Oracle Grid Control in an enterprise environment.

Prerequisites

- The student must be familiar with Oracle 9i or Oracle 10g databases
- Understanding and use of fundamental Linux commands (such as ls and cp) and a Linux text editor
- Students should have general understanding of the Application Server
- Familiarity with Application Server Control or Database Control
- Good knowledge of Linux would be definite plus
- Oracle Database 10g: Administration
- No experience with SANs is required.

Duration

Five days

Oracle Grid Control: Implementation & Administration Course Outline

- I. Grid Control Concepts & Architecture**
 - A. Explaining the different components of Grid Control Architecture
 - B. Discussing all the targets that can be managed using Grid Control
 - C. Discussing the hardware requirements and prerequisites
 - D. Identifying the installation options for the Oracle Management Service and the Management Repository
- II. Grid Control Installation & Patching**
 - A. Install Grid Control
 - B. Patch Grid Control to the latest release
 - Process and Issues
- III. Grid Control Agent Deployment & Patching on targets**
 - A. Deployment options for the Oracle management agent
 - B. Install management agent on targets
 - C. Patch management agent to the latest versions
 - D. Management agent post-install configuration
- IV. Monitoring targets using Grid Control**
 - A. Monitoring through grid control
 - 1. Understanding out-of-box monitoring features
 - 2. Changing metric settings
 - 3. Creating and applying Monitoring Templates
 - 4. Setting up email notification for alerts and corrective actions
 - 5. Creating User-Defined Metrics
 - 6. Defining Notification Schedules
 - 7. Defining Corrective Actions
 - 8. Creating Blackouts
 - B. Monitoring database host (server)
 - 1. Monitoring host availability and resource usage
 - 2. Viewing host operating system and hardware information
 - 3. Viewing Storage Details for host
 - 4. Validating host metrics
 - 5. Evaluating the CPU utilization for a host
 - 6. Explaining the features of Grid Control that allow you to manage and monitor the performance of host targets
 - 7. Searching and comparing hosts
 - C. Common Managed Targets: Database
 - 1. Managing Oracle Databases
 - 2. Explaining the Database Performance Management features of Grid Control
 - 3. Explaining the Database Administration features of Grid Control
 - 4. Explaining the Database Maintenance features of Grid Control
 - 5. Comparing Database configurations
 - 6. Examining init parameters
- V. Grid Control Administration & Monitoring, Configuration**
 - A. Configuring Grid Control
 - 1. Creating Roles
 - 2. Creating Administrators
 - 3. Granting Privileges
 - 4. Setting up Preferred Credentials
 - 5. Discussing EMCLI
 - B. Monitoring Grid Control
 - 1. Monitoring the availability of Grid Control components
 - 2. Management monitoring the performance of the Management Server, Repository, and the Agent
 - 3. Identifying Log and Trace Files
 - 4. Identifying the various command line utilities that can be used to control the Grid Control components
 - 5. Identifying startup and shutdown procedures for the Grid Control components
 - 6. Determining the best practices in keeping Grid Control healthy
 - 7. Discussing backup of the OMS and the Repository
 - 8. Monitoring EM Website Web Application

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Course Outline (cont'd)**

- C. Groups
 - 1. Understanding the use of groups to organize and manage targets
 - 2. Defining Groups
 - 3. Managing and Monitoring Groups
 - 4. Using groups in notification rules
 - 5. Understanding Redundancy Groups

- D. Job System - Creating jobs in Grid Control