

# Using Oracle Enterprise Manager Cloud Control 13c Ed 2

Infrastructure

DURATION

**3 Days**

MODULES

**14 Lectures**

COURSE CODE

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## Course Overview

In the Using Oracle Enterprise Manager Cloud Control 13c course, students learn how to use Enterprise Manager Cloud Control to monitor and manage their enterprise-computing environment.

## What You Will Learn

### Introduction

- Course Goals
- Objectives
- What Is Enterprise Manager Cloud Control 13c?
- Why Do I Need Enterprise Manager Cloud Control 13c?
- Who Can Use Enterprise Manager Cloud Control?
- Enterprise Manager Cloud Control 13c Features
- Single Pane of Glass for Enterprise Management
- Course Schedule
- Classroom Setup
- Summary
- Practice 1-1 Overview: Checking the Virtual Environment
- Practice 1-2 Overview: Getting to Know Your Oracle Software Classroom Environment

### Cloud Control Core Concepts

- Objectives
- Cloud Control Components
- Cloud Management: Hybrid Cloud
- Communication Between Components
- Oracle Management Service
- Discovery: What Is Host Discovery?
- Manual Discovery: How Do Hosts Become Managed Hosts?
- What Is Target Discovery?

- How Do Targets Become Managed Targets?
- Examples of Managed Target Types
- Oracle Management Repository
- Software Library
- EM Command-Line Interface
- Monitoring: Key Functionality
- Other Monitoring and Management Functionality
- Security: Overview
- Summary
- Practice 2-1 Overview: Accessing Enterprise Manager Cloud Control
- Practice 2-2 Overview: Monitoring and Managing Cloud Control
- Practice 2-3 Overview: Monitoring the Cloud Control Host

## Organizing Targets

- Objectives
- Organizing Targets into Groups
- Why Use Groups?
- Understanding Properties of Targets
- Cloud Control Group Types
- Which Groups Should I Use?
- Designing Target Groupings
- Working with Dynamic Groups
- Working with Administration Groups: Overview
- Comparing Group Characteristics
- Populating Groups: Best Practices
- Quiz
- Summary
- Practice 3-1 Overview: Organizing Your Targets: Administrative Groups
- Practice 3-2 Overview: Organizing Your Targets: Non-Privilege-Propagating
- Groups
- Practice 3-3 Overview: Discovering Additional Targets

## Oracle Cloud in Your IT Ecosystem

- Objectives
- Oracle Cloud as Part of Your IT Ecosystem
- Tools for Monitoring and Managing Oracle Cloud Services
- Why Use Cloud Control to Manage Oracle Cloud Services?
- How Cloud Control Monitors and Manages Oracle Cloud Services
- How to Get Past the Firewalls That Protect You
- The Hybrid Cloud Agent: An Elegant Solution
- Under the Covers of the Hybrid Cloud Agent
- What the Hybrid Cloud Agent Enables
- Summary

## Cloud Control Access

- Objectives
- Designing Cloud Control Access
- How Authentication Works in Cloud Control
- Cloud Control Administrators
- Cloud Control Authentication Options
- How Authorization Works in Cloud Control
- Privileges
- Roles
- Private Roles Versus System Roles
- Who Can Create Roles?
- Privileges and Roles: Best Practices
- Cloud Control Initial Access: Best Practices
- Managing Securely with Credentials
- Target Authentication
- Target Access Using Credentials
- Preferred Credentials
- Global Preferred Credentials
- Correlating Administrators, Roles, and Groups
- Correlating Administrators and Target Credentials
- Quiz
- Summary
- Practice 5-1 Overview: Creating Roles and Administrators
- Practice 5-2 Overview: Creating Named and Default Credentials
- Practice 5-3 Overview: Performing DBA Role Tasks: View Host Targets, Set Backup and Recovery Parameters, and Back Up a Tablespace
- Practice 5-4 Overview: Performing Tasks as a Junior DBA Administrator: View Targets and Privileges

## Monitoring

- Objectives
- Cloud Control Monitoring: Overview
- Enterprise Monitoring with Cloud Control
- Always-On Monitoring
- Defining Monitoring Standards
- Using Administration Groups for Monitoring
- Concept: Metrics and Metric Thresholds
- Customizing Metric Settings
- Concept: Monitoring Templates and Template Collections
- Using Monitoring Templates and Template Collections
- Example of Template Modifications
- Keeping Targets and Templates Synchronized
- Administration Groups and Template Tasks Prerequisite Privileges
- Extending Your Monitoring Scope
- Developing and Deploying Metric Extensions

- Securely Dividing Metric Extension Tasks
- Quiz
- Summary
- Practice 6-1 Overview: Reviewing the Oracle-Provided Monitoring Templates
- Practice 6-2 Overview: Creating a Monitoring Template
- Practice 6-3 Overview: Applying a Monitoring Template Using a Template
- Collection

## Managing Events and Incidents

- Objectives
- Goals of Incident Management
- Understanding Events
- Understanding Incidents
- Distinguishing Between Incidents and Events
- Example: Incident with One Event
- Example: Incident with Multiple Events
- Understanding Problems
- Monitoring Oracle Software Problems
- Example: ADR Incidents and Cloud Control Problems
- Enterprise View of Incident Manager
- Performing Incident Lifecycle Operations
- Who Can Use Incident Manager?
- Quiz
- Summary
- Practice 7-1 Overview: Preparing an Incident
- Practice 7-2 Overview: Finding and Resolving an Incident

## Responding to Events, Incidents, and Problems

- Objectives
- Why Do You Need Incident Rules?
- What Is an Incident Rule?
- Defining Rules
- Rule Sets
- Setup of Notifications
- Prioritization of Rules and Notifications
- Best Practices for Using Incident Rule Sets
- Rule Set: Example
- Corrective Actions
- Defining and Using Corrective Actions
- Using Blackouts
- Using Notification Blackouts
- Quiz
- Summary
- Practice 8-1 Overview: Creating a Corrective Action
- Practice 8-2 Overview: Creating a Rule Set

- Practice 8-3 Overview: Observing How a Rule Set Is Applied

## Using the Job System

- Objectives
- What Is a Job?
- How Do Jobs Work in Cloud Control?
- Job Elements
- Job Executions and Job Runs
- Defining Jobs
- Using Predefined Jobs
- Job System Chef-Solo Support
- Job Interfaces in Cloud Control
- Creating Jobs
- Creating a Multitask Job
- Details of a Multitask Job
- Reviewing Job Execution Results
- Performing Job Operations
- Jobs and Groups
- Job Events
- Jobs Privileges
- Enterprise Level: Monitoring Jobs and Job System Status
- Quiz
- Summary
- Practice 9-1 Overview: Creating and Executing a Simple SQL Job
- Practice 9-2 Overview: Creating and Executing OS Jobs on Multiple Targets
- Practice 9-3 Overview: Creating a Multitask Job (Optional)

## Managing Systems and Services

- Objectives
- Systems and Services
- Example: System and Service
- Creating a Generic System
- Using the System Home Page
- Other System Views
- Defining Services
- Understanding Service Types
- Defining the Availability of a Generic Service
- Defining a Service Test
- Using Beacons
- Defining a Web Transaction Service Test
- Defining Service Performance
- Defining and Monitoring Usage Metrics
- Viewing Additional Service Information
- Defining Service Level Rules
- Specifying Service Level Rule Elements

- Using Root Cause Analysis (RCA)
- Creating a Generic Service: Sample Wizard
- Viewing the Service Topology
- Example: Implementing Systems and Services
- Quiz
- Summary
- Practice 10-1 Overview: Reviewing Existing Systems and Services
- Practice 10-2 Overview: Creating a System
- Practice 10-3 Overview: Creating a Generic Service
- Practice 10-4 Overview: Monitoring the Availability of a Web Application
- Practice 10-5 Overview: Creating and Testing a Web Transaction

## Patching and Provisioning

- Objectives
- Software Lifecycle Management
- Software Lifecycle Management Requirements
- Configuring the Software Library: Review
- Provisioning Elements
- Provisioning Specific Roles and Privileges
- Bare Metal or OS Provisioning
- Database Software Provisioning Workflow
- Deployment Procedures for Provisioning and Patching Automation
- Deployment Procedures: Properties
- Deployment Procedures: Phases and Steps
- Examples of Customized Deployment Procedures
- Software Patching
- Patching Workflow
- Software Patching Modes
- Out-of-Place Patching
- Patching Rollout Cycles Using Templates
- Oracle Database Software Upgrades
- Oracle Database Software Upgrades: Using Breakpoints
- Quiz
- Summary
- Practice 11-1 Overview: Preparing for Offline Patching
- Practice 11-2 Overview: Patching Offline

## Managing Configurations

- Objectives
- What Is Configuration Management?
- Configuration Management
- Examples of Configuration Information
- Comparing Configurations
- Searching the Enterprise Configuration
- Types of Enterprise Configuration Searches

- Drift and Consistency Management
- Change Activity Planner
- Quiz
- Summary
- Practice 12-1 Overview: Viewing Configuration Details
- Practice 12-2 Overview: Viewing Configuration History and Topology
- Practice 12-3 Overview: Comparing Configurations and Managing Drift
- Practice 12-4 Overview: Searching Configurations

## Managing Compliance

- Objectives
- Compliance: Overview
- Understanding Compliance Management
- Understanding Compliance Standards
- Understanding Compliance Standard Rules
- Implementing Compliance Management
- Understanding Compliance Measurement
- Score and Its Factors
- Accessing the Compliance Library
- Associating Targets to Compliance Standards
- Investigating Compliance Violations
- Viewing Compliance Evaluation Results
- Viewing Compliance Scores
- Viewing Out-of-the-Box Compliance Reports: Dashboard
- Quiz
- Summary
- Practice 13-1 Overview: Reviewing Predefined Compliance Objects
- Practice 13-2 Overview: Using Compliance Standards

## Using the Cloud Control Reporting Framework

- Objectives
- Introduction to BI Publisher
- BI Publisher Configuration with Enterprise Manager
- BI Publisher Access
- Reporting on Targets
- BI Publisher Elements
- Report Definitions
- Running and Scheduling Reports: Workflows
- Creating Custom Reports: Workflow
- Scheduling Reports
- Reports Output Options
- Oracle-Provided Reports
- Quiz
- Summary
- Practice 14-1 Overview: Reviewing and Running Oracle-Provided Reports

- Practice 14-2 Overview: Editing a Report with BI Publisher
- Practice 14-3 Overview: Scheduling a Report with BI Publisher