



Oracle Enterprise Manager 12c Cloud Control: Install & Upgrade Workshop



ora12c305-ver2

Learning Resources Available From The Sideris Training Portal

2 Days

General Description

This training textbook is the first in a series provided by Sideris for the Oracle Enterprise Manager 12c Cloud Control product. This textbook is intended to provide one with an in-depth understanding of the architecture of the Oracle Enterprise Manager 12c Cloud Control platform. It guides one through a step-by-step installation and preliminary configuration of a Cloud Control instance. Operating system specific considerations that apply to installing the Cloud Control on a Linux, Unix or MS Windows host are provided, along with numerous examples. Potential problems and pitfalls are discussed and possible troubleshooting remedies are offered.

One will learn how to discover within the systems infrastructure a host system and a software installation running on that host, such as a database or middleware application server instance. Incorporating the host system and the software installation into the Enterprise Manager 12c framework then allows the Cloud Control to be used to manage those targets.

The training material then concludes with Oracle Enterprise Manager 12c Cloud Control upgrade procedures, including actual examples from real-world upgrade scenarios. Throughout the procedures explained in this textbook are recommendations for building a high-availability, high-performance and secure Enterprise Manager installation.

The target audience for this textbook is all Oracle professionals. Among the specific groups for whom this textbook will be helpful are:

- Database administrators
- Web server administrators
- System administrators
- Implementation specialists
- Data center support engineers

Target Audience

Prerequisites

The use of Oracle Enterprise Manager 12c Cloud Control requires access to an Oracle database installation, which serves as a metadata repository for the Oracle Enterprise Manager installation. A prerequisite for the successful installation and use of the Oracle Enterprise Manager 12c Cloud Control platform is a pre-existing and certified database installation. For this reason, a prerequisite to this textbook is either Oracle Database 12c: Install & Upgrade Workshop or Oracle Database 11g: Step-By-Step Installation Guide DATABASE 12C: INSTALL & UPGRADE WORKSHOP or ORACLE DATABASE 11G: STEP-BY-STEP INSTALLATION GUIDE. These prerequisite textbooks also cover basic host system configuration and Oracle software installation techniques that are helpful to complete an Oracle Enterprise Manager 12c Cloud Control installation.

Certification

This textbook considers subjects helpful for certification as an Oracle Enterprise Manager 12c Certified Implementation Specialist for "Exam: 1Z0-457: Oracle Enterprise Manager 12c Certified Implementation Specialist".

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Content Summary

Volumes: 1
Pages: 273
Workshops: 4
Exercises: 21

It is assumed that the textbook ORACLE ENTERPRISE MANAGER 12C CLOUD CONTROL: ADMINISTER THE ENTERPRISE is being used along with this one as part of a single training session. If not, then that textbook should be part of the next training session.

Suggested Next Textbooks

If you have not already completed the Sideris textbook ORACLE DATABASE 12C: MANAGE THE MULTITENANT ARCHITECTURE, this is also recommended for a subsequent training session.

Furthermore, like any other database installation, the Oracle Enterprise Manager 12c Cloud Control repository database must be managed and administered. The textbook ORACLE DATABASE 12C: ADMINISTRATION WORKSHOP is another recommendation for managing the repository database required for an Enterprise Manager 12c installation.

Training Suggestions

This textbook is part of the Oracle Database 12c: OCM (Oracle Certified Master) & Enterprise Manager Cloud Control series from the Sideris training textbook library.

Contents

EM Cloud Control Architecture

- About Enterprise Management
- EM Framework
- EM Framework Extensibility
- EM Architecture
- EM High-Availability Architecture

Configuring A Host For EM Cloud Control

- Configuration Overview
- EM CC Repository Database Recommendation

- EM CC Repository Database Templates
- Host Configuration Steps
- Host System Requirements
- Categorizing The Size Of Your Systems Infrastructure
- Database System Requirements
- Making The OS Selection
- Linux Host Configuration
- Step 1 – Check Linux Package Requirements
- Step 2 – Check Environment Variables
- Step 3 – Check Network Configuration

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- Step 4 – Create System Groups & Users
- Step 5 – Shell Configuration
- Step 6 – Create The Oracle Inventory Directory
- Step 7 – Create Or Identify The Home Directories
- Home Directory Restrictions
- Troubleshooting Problems
- MS Windows Host Configuration
- Check Virtual Memory Configuration
- Check Environment Variables Settings
- What Is Cygwin & Why Do I Need It?
- Download Cygwin
- Cygwin Installation Dialog
- Configure Cygwin
- Configure OpenSSH
- Verify The Installation

Installation

- Perform A Linux Installation
- Download
- Unpack The Installation Package
- Launch The Installation Session
- About The Installation Dialog
- Advanced Installation Dialog
- Troubleshooting Repository Problems
- Specify Authentication Passwords
- Specify Repository Tablespaces
- Configure Oracle Software Library
- Troubleshooting Problems
- Updating Oracle Inventory Before Retrying The Installation
- Handling Partial Installation Situations
- Simple Installation Dialog
- Perform A Windows Installation

- Post-Installation
- Post-Installation Tasks
- EM Host Firewall Configuration
- Defining The Environment Variables
- OMS High-Availability
- Encryption Key Availability
- Oracle Software Library Availability
- Repository Database High-Availability
- VERIFY THE INSTALLATION
- Access The WLS Administration Console
- Access The Cloud Control
- Peruse The Installation Directories

Target Discovery

- About Target Discovery
- The Target Discovery Process
- Obtain Management Agent
- Prerequisite Checks For This Step
- Download Management Agent Software
- Apply To The Software Library
- Add HOST Target
- Deploy Management Agent
- Guided Process
- Named Credentials
- Deployment Operation
- How Will You Do?
- ADD NON-HOST TARGET
- Add Targets Using Guided Process
- Specify Common Monitoring Credentials
- Troubleshooting Problems

Upgrade

- Upgrade Considerations

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- About Versions, Releases & Patches
- Direct Upgrade Path
- Indirect Upgrade
- Scope Of An Upgrade
- Developing An Upgrade Strategy
- Upgrade Strategies
- Launch The Upgrade Session
- About Downtime
- One System Upgrade Approach
- Two System Upgrade Approach
- Blended Approach
- One-System Upgrade Dialog
- The Upgrade Scenario
- The Installation Dialog
- Handling The EM Encryption Key
- Troubleshooting Problems
- Post-Upgrade Configuration Tasks

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