

Oracle Database 11g: Implement Database Vault Release 2

Duration: 2 Days

What you will learn

Oracle Database Vault helps an organization meet their security goals. Many requirements are being put on systems regarding separation of duties and privacy and protection of data, including insider threats. DBAs and security administrators need to understand these requirements, and also the tools available for meeting them.

This course introduces the student to the Database Vault product, including installation, configuration, and how it affects activities in the database. New security concepts are introduced, illustrated, and clearly demonstrated by relevant practices.

Learn To:

How to use the various features of Oracle Database Vault

How to monitor and maintain an Oracle Database Vault environment

Install and configure Oracle Database Vault to meet your security compliance goals

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Audience

Database Administrators

Security Administrators

Security Compliance Professionals

Support Engineer

Technical Consultant

Related Training

Suggested Prerequisites

Basic Oracle administration skills

Oracle Database 11g: Administration Workshop I Release 2

Oracle Database 11g: Security Release 2

SQL and PL/SQL skills

Course Objectives

Identify the features and benefits of Oracle Database Vault

Install and Configure Oracle Database Vault Audit Database Vault activities

Configure Oracle Database Vault components (such as Realms, Identities, and Factors) to implement security

Use attributes such as time of day and IP address to determine users' privileges

Use the Database Vault administration browser interface

Use PL/SQL APIs to perform Database Vault functionality

Access Database Vault views to see security information

Incorporate best practices into database vault configuration

Course Topics

Introduction

Overview of Database Vault

Overview of Database Vault elements and functionality

Component relationships

Database Vault example

Database Vault effects

Database Vault Administrator (DVA)

Reporting and monitoring

Database Vault API

Managing Database Vault databases using Enterprise Manager

Configuring Database Vault

Enabling Oracle Database Vault

Configuring an Oracle database for Database Vault

Database parameters altered during configuration

Logging into DVA

Database roles

Database Vault accounts

Database Vault schemas

Configuring Realms

Realms: Concepts

Creating and editing realms

Deleting realms

The realm algorithm

Examples of realms

Delivered realms

Realm views

Monitoring and reporting of realms

Defining Rule Sets

Rule sets: Concepts

Creating and editing rule sets

Deleting rule sets

Reusing rules

- Auditing rule sets
- Custom event handlers
- Using rule sets with realms
- Rule set examples

Configuring Command Rules

- Command Rules: Concepts
- Creating and editing command Rules
- Delivered command rules
- DBA_DV_COMMAND_RULE view
- Command rule report
- Command rule API

Extending Rule Sets

- Factors: Concepts
- Factor scenarios
- Creating and editing factors
- Managing factors:
- Identities: Concepts
- Purpose of identities
- Creating an identity
- Managing identities

Configuring Secure Application Roles

- Secure application roles: Concepts
- Creating and editing secure application roles
- Deleting secure application roles
- Secure application roles: Examples
- Managing secure application roles:

Viewing Database Vault Reports

- Monitoring Database Vault
- Configuration reports
- Auditing reports
- Security reports
- Object privilege reports
- Accounts and roles reports
- Privilege summary reports
- System privileges reports

Implementing Best Practices

- Identifying your security requirements
- Suggested naming conventions
- Separation of duty best practices
- Identifying your security requirements
- Audit all violations
- Connection pooling considerations
- Enforcing connections from an application server
- Performance considerations