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

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