

# ODAT-41 - ORACLE DATABASE SECURITY: DETECTIVE CONTROLS ED 1

Categoria: **Database**

## INFORMAZIONI SUL CORSO



**Durata:**  
5 Giorni



**Categoria:**  
Database



**Qualifica Istruttore:**  
Oracle Certified  
Professional



**Dedicato a:**  
Professionista IT



**Produttore:**  
Oracle

## OBIETTIVI

Enumerare le soluzioni di controllo Oracle per monitorare i requisiti di sicurezza del database  
Implementare Oracle Audit Vault e Database Firewall  
Configurare Oracle Audit Vault e Database Firewall  
Spiegare l'Oracle Compliance Framework  
Configurare le regole di base del Compliance Framework

## PREREQUISITI

### **Prerequisiti richiesti:**

Buona comprensione di SQL  
Creare procedure PL / SQL  
Buona conoscenza di Oracle Database Administration  
Introduzione a Oracle Database Security Ed 1

### **Prerequisiti consigliati:**

Creare e gestire utenti, ruoli e privilegi di database  
Oracle Database 12c: Amministrazione Workshop Ed 2  
Database Oracle: Sviluppare unità di pianificazione PL / SQL Ed 2

## CONTENUTI

### **Introduction**

Course Objectives and Schedule  
Course Practices and Additional Information

### **Using Unified Audit**

Auditing Overview  
Unified Audit Management  
Specific Audit Situations

### **Using Fine-Grained Audit**

Comparison with Unified Auditing  
Overview  
FGA Implementation

### **Introduction to Oracle Audit Vault and Database Firewall (AVDF)**

Oracle Audit Vault and Database Firewall Features

- Oracle Audit Vault and Database Firewall Components
- Oracle Audit Vault and Database Firewall Architecture
- Supported Secured Targets
- Integrating Oracle AVDF with Third-party Products
- Oracle AVDF Administrator Tasks
- Oracle AVDF Auditor Tasks

## **Planning the Oracle Audit Vault and Database Firewall Implementation**

- Evaluating Oracle AVDF Configuration Requirements
- Configuring Oracle AVDF and Deploying the Audit Vault Agent
- Configuring Oracle AVDF and Deploying the Database Firewall

## **Installing the Audit Vault Server**

- Requirements for Installation of Oracle AVDF
- Network Interface Card Requirements
- Installing an Audit Vault Server
- Performing Audit Vault Server Post-Installation Tasks

## **Configuring the Audit Vault Server**

- Specifying the Server Date and Time
- Setting or Changing the Audit Vault Server Network Settings
- Configuring or Changing the Audit Vault Server Service
- Configuring the Audit Vault Server Syslog Destinations
- Defining Datafile Archiving Locations
- Creating Archiving Policies
- Configuring the Email Notification Service
- Configuring Administrative Accounts for the Audit Vault Server

## **Configuring Oracle AVDF and Deploying the Audit Vault Agent**

- Understanding Network Requirements for AV Server and AV Agent
- Registering Hosts in the Audit Vault Server
- Deploying and Activating the Audit Vault Agent on Host Computers
- Registering the Audit Vault Agent as a Windows Service
- Creating User Accounts for Oracle AVDF
- Registering Secured Targets
- Configuring Audit Trails for Secured Targets
- Configuring Stored Procedure Auditing

## **Networking and Oracle AVDF**

- Overview of the OSI 7-level Network Model
- Overview of IPv4 Addressing and Routing
- Overview of MAC Addressing
- Overview of Virtual LANs (VLANs)
- Overview of Spanning Tree Protocol (STP)
- Oracle AVDF Deployment Models (inline, out of band, and proxy)
- Best Practices for Database Policy Enforcement (DPE) and Database Activity Monitoring (DAM) Modes

## **Installing a Database Firewall**

- Requirements for Installation of a Database Firewall
- Network Interface Card (NIC) Requirements
- Installing a Database Firewall
- Performing Database Firewall Post-Installation Tasks

## **Configuring Oracle AVDF and Deploying Database Firewall**

- Configuring Basic Settings for Database Firewall
- Configuring a Database Firewall on Your Network
- Associating a Database Firewall with the Audit Vault Server
- Registering Secured Targets
- Configuring Enforcement Points
- Configuring and Using Database Interrogation
- Configuring and Using Database Response Monitoring

## **Using Host Monitoring**

- Overview of Host Monitoring
- Installing and Enabling Host Monitoring
- Checking the Status of the Host Monitor
- Stopping the Host Monitor

## **Configuring High Availability**

- Overview of Oracle AVDF High Availability Architecture (resilient pairs)
- Configuring a Resilient Pair of Audit Vault Servers
- Configuring a Resilient Pair of Database Firewalls

## **Creating Custom Collection Plug-ins**

- Overview of Audit Collection Plug-ins
- General Procedure for Writing Audit Collection Plug-ins
- Setting Up Your Development Environment (downloading the SDK)
- Creating Audit Collection Plug-ins
- Packaging Audit Collection Plug-ins

## **Managing the Audit Vault Server**

- Starting an Archive Job
- Restoring Audit Data
- Monitoring Jobs

## **Managing the Database Firewalls**

- Viewing and Capturing Network Traffic in a Database Firewall
- Viewing the Status and Diagnostics Report for a Database Firewall
- Removing a Database Firewall from the Audit Vault Server

## **Overview of the Auditing and Reporting Features**

- Overview of Database Firewall Policies
- Overview of Oracle Database Audit Policies
- Overview of Reports and Report Schedules
- Overview of Oracle Database Entitlement Auditing
- Overview of Oracle Database Stored Procedure Auditing
- Overview of Alerts and Email Notifications

## **Performing Administrative Tasks**

- Viewing a List of Audit Trails and Audit Trail Status
- Viewing a List of Enforcement Points and Enforcement Point Status
- Specifying a Data Retention Policy
- Creating Secured Target Groups
- Assigning a Secured Target to a Compliance Group
- Managing User Accounts and Access
- Creating Templates and Distribution Lists for Email Notifications

## Monitoring Jobs

### **Creating Audit Policies for Oracle Databases**

Overview of Audit Policies and Audit Data Collection

Overview of Oracle Database Auditing

Recommended Audit Settings

Creating Audit Policies for Oracle Database (overview)

Retrieving and Modifying Audit Settings from an Oracle Database

Creating Additional Audit Policy Settings for an Oracle Database

### **Creating Database Firewall Policies**

Overview of Database Firewall Policies

Creating a Firewall Policy

Defining Firewall Policy Rules and Settings

Using Profiles to Customize a Firewall Policy

Publishing Firewall Policies

Deploying Firewall Policies to Secured Targets

### **Oracle AVDF Reports**

Using the Built-in Reports

Managing Reports

Customizing Built-in Reports

Creating Custom Reports

### **Managing Entitlements**

Overview of Entitlement Data (what is it?)

Retrieving Entitlement Data from an Oracle Database (creating a snapshot)

Creating Labels for Snapshots

Assigning Labels to Snapshots

Using Entitlement Reports

## INFO

**Manuale:** Il Materiale Didattico Ufficiale per tutti i corsi Oracle University non è in forma cartacea ma consiste in un eKit elettronico che lo studente iscritto può scaricare dal sito Oracle. Il Materiale Didattico è compreso nel prezzo sia per i corsi a Calendario sia per quelli Dedicati.

**Prezzo manuale:** 0 € incluso nel prezzo del corso a Calendario

**Natura del corso:** Operativo (previsti lab su PC)