

Oracle Access Management 12c: Administration Essentials

Course Duration:40 Hours

Course code: OAM-12c-AE

1. Course Overview

This course introduces learners to Oracle Access Management (OAM) 12c and provides the skills needed to deploy, configure, and administer access management solutions. Participants will explore single sign-on (SSO), authentication, authorization, session management, security policies, and integration with enterprise applications. The training emphasizes both theoretical understanding and hands-on labs, enabling administrators to effectively manage users, protect applications, and ensure compliance with enterprise security requirements.

2. What you'll learn?

By the end of this course, you should be able to:

- Describe Oracle Identity and Access Management architecture
- Install and configure Oracle Access Management 12c
- Manage users, roles, and security policies
- Configure single sign-on (SSO) and authentication schemes
- Define and apply authorization policies
- Configure session management and logout policies
- Integrate OAM with enterprise applications and identity providers
- Use diagnostics, logging, and troubleshooting tools
- Apply best practices for securing applications with OAM

3. Target Audience

- Identity and Access Management (IAM) administrators
- Security professionals managing authentication and authorization
- Middleware administrators supporting enterprise applications
- System architects designing IAM solutions

4. Pre-Requisites

Familiarity with:

- Oracle WebLogic Server administration
- Basic networking and security concepts
- Identity management fundamentals (authentication, authorization, SSO)

5. Course content

Module 1: Overview of Oracle Access Manager

- Oracle Access Manager runtime architecture
- Key Oracle Access Manager 12c PS3 features
- Functional areas of Oracle Access Management products
- Overall architecture and salient features of Oracle Access Manager

Module 2: Installation and Configuration

- Key definitions and terminologies
- Installing Oracle Middleware Infrastructure
- Configuring domains for Oracle Access Manager & Oracle HTTP Server
- Installing Oracle Access Management
- Configuring seeded database schemas using the Repository Creation Utility
- Installing Oracle HTTP Server
- Performing post-installation validation checks

Module 3: System Configuration (Servers, Datasources, Agents)

- Extending Webgate with Detached Credential Collection (DCC)
- Installing and configuring agents
- Managing servers via OAM Administration Console & WebLogic Admin Console
- Registering agents (Admin Console, In-Band, Out-of-Band methods)
- Understanding WebLogic Server (WLS) Agents
- Managing agents with OAM Admin Console

Module 4: Policy Configuration (Shared Components & Application Domains)

- Resource matching and excluded resources
- Authentication modules and schemes
- Complex LDAP authorization and response filters
- Authorization expressions
- Access control: authentication and authorization
- Module 5: Single Sign-On (SSO) and Session Management
- Session lifecycle, caching, and cookies
- Impersonation functionality
- Error codes, password policies, and validation errors
- OAM single sign-on and single logout
- Customizing login and logout pages

Module 6: Using OAM with WebLogic Applications

- Protecting WebLogic applications with OAM
- Identity assertion providers
- OAM authenticator integration

Module 7: Auditing and Logging

- Audited events and recorded data
- Configuring logging settings
- Generating audit reports
- Configuring audit settings
- Locating and examining logging output

Module 8: Troubleshooting and Management

- Using Access Tester for diagnostics
- OAM-specific WLST commands
- Server processes and charts
- Managing with Oracle Enterprise Manager Fusion Middleware Control
- Identifying connectivity issues (agents, servers, load balancers, firewalls)

Module 9: OAM in Hybrid Environments

- Configuring Identity Cloud Service (IDCS) for OAM authentication
- OAM authentication integration with IDCS
- Understanding hybrid on-premise and cloud environments

