

R12.2.9 Oracle Applications System Administrator Fundamentals

Oracle E-Business Suite

DURATION

5 Days

MODULES

23 Lectures

COURSE CODE

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Course Overview

Set up and administer security-related features. Monitor Oracle E-Business Suite activities using OAM. Understand the fundamentals of Oracle Workflow, including its setup. Configure flexfields and understand how they are used by Oracle E-Business Suite. Set up and manage profile options, printers, personalizations, and other features. Describe service-oriented architecture (SOA) and manage service life cycle activities

What You Will Learn

Introduction

- Course Objectives
- Overview
- Oracle E-Business Suite System Administration
- Oracle E-Business Suite Security
- Concurrent Processing in Oracle E-Business Suite
- Oracle Applications Manager
- Oracle Workflow
- Personalizations in Oracle E-Business Suite
- Summary

Oracle E-Business Suite System Administrative Responsibilities

- Objectives
- System Administrative Responsibilities
- System Administration Responsibility
- System Administrator Responsibility
- Functional Administrator and Functional Developer Responsibility
- Integrated SOA Gateway Responsibility
- Summary

Introduction to Oracle E-Business Suite Security

- Objectives
- Successive Layers of Access Control
- Increasing Flexibility and Scalability
- Function Security
- Data Security
- Oracle User Management Layers of Access Control
- Role Based Access Control (RBAC)
- Delegated Administration
- Provisioning Services
- Self Service and Approvals
- Introduction to Single Sign-On
- Simplified User Management
- Centralized Account Provisioning
- On Demand User Creation
- Automatic Linking of User Accounts
- Summary

Introduction to Function Security

- Objectives
- Overview of Function Security
- Defining a New Application User
- Applications
- Using Responsibilities
- Responsibility Components
- Responsibility Creation Process
- Defining a New Responsibility
- Defining a Menu
- Identifying Existing Menu Structures
- Menu Guidelines
- Creating a Menu using the Menus Window in Forms
- Creating a Menu using the HTML-based Menus Page
- Modifying an Existing Menu Definition
- Securing Functions
- Navigator Menus
- The Menu Viewer
- Viewing Node Properties in the Menu Viewer
- Adding a Custom Form Function
- Passable Forms Parameters
- Query-Only Forms
- Form Window Name Changes
- Help Target Changes
- List of All Submit Request Parameters
- Summary

Introduction to Data Security

- Objectives
- Introduction to Data Security
- Data Security Components – Objects
- Grants
- Permissions and Permission Sets
- Data Security Policies
- Example of a Data Security Policy
- Summary

Introduction to User Management

- Objectives
- What Is Oracle User Management?
- Who Is Oracle User Management Intended For?
- Access Control Model
- Successive Layers of Access Control
- Function Security
- Responsibilities
- Data Security
- Role Based Access Control (RBAC)
- Role Categories and Inheritance Hierarchies
- Delegated Administration
- Delegating to Proxy Users
- Provisioning Services
- Self-Service and Approvals
- Login Assistance
- Summary

Implementing Oracle User Management

- Objectives
- Implementing Oracle User Management
- Steps for Implementing Oracle User Management
- Introduction to Roles
- Examples of Roles
- Defining Roles: Data Security Policies
- Defining Roles: Assigning a Single Responsibility and All Its Functions
- to a Role
- Assigning a Single Responsibility to a Role and Granting Specific Functions to a Role
- Defining Roles: Assigning Multiple Responsibilities to a Role
- Role Inheritance Hierarchies
- Role Categories
- Permissions and Permission Sets
- Assigning Permissions to Roles
- Advantages of Roles Over Responsibilities

- Phase II: Define Roles
- Steps for Creating Roles: Define a Role Category
- Steps for Creating Roles: Create a Role within the Role Category
- Steps for Creating Roles: Place Role in Role Inheritance Hierarchy
- Steps for Creating Roles: Assign Permissions to Roles
- Steps for Creating Roles: Assign Role to a New Person
- Steps for Creating Roles: Test the Role
- Delegated Administration
- What Is Delegated Administration?
- User Administration Privileges
- User Administration Privileges (continued)
- Role Administration Privileges
- Seeded Permissions for User Administration
- Managing Roles with Role Administration
- Seeded Permissions for Role Administration
- Organization Administration Privileges
- Registering External Organization Contacts
- Seeded Permissions for Organization Administration
- Delegated Administration vs. Traditional System Administration
- Phase III: Setting Up Delegated Administration
- Steps for Implementing Delegated Administration: Set Up User Administration for a Role
- Steps for Implementing Delegated Administration
- Registration Processes
- Registration Processes: Core Components
- Self-Service Account Requests
- Requests for Additional Access
- Account Creation by Administrators
- Phase IV: Creating Registration Processes
- Steps for Creating Registration Processes: Provide Required
- Description Information
- Steps for Creating Registration Processes: Enter Runtime Execution
- Information
- Steps for Creating Registration Processes: Enter Eligibility Information
- Steps for Creating Registration Processes: Register Subscriptions to Business Events
- Steps for Creating Registration Processes: Set Profile Options (Optional)
- Steps for Creating Registration Processes: Optionally Set Login Page UI
- Attributes
- Steps for Creating Registration Processes: Test as Customer Administrator
- Proxy Users
- Oracle User Management Security Reports
- Creating, Inactivating, and Reactivating User Accounts
- Resetting User Passwords
- Self-Service Features
- Login Assistance
- Summary

Introduction to Concurrent Requests

- Objectives
- Concurrent Requests, Programs, and Managers
- Business Needs for Concurrent Processing
- Business Needs for Standard Request Submission
- Definitions
- Submit Request Flow
- Submit a New Request
- Using Parameters
- Defining a Submission Schedule
- Defining Completion Options (Forms UI)
- Defining Completion Options (HTML-based UI)
- Request ID
- Reprinting a Report
- Use the Requests Window to View and Change Requests
- How to Use the Requests Window (Forms-based UI)
- How to Use the Requests Page (HTML-based UI)
- Additional Tasks for Requests
- Additional Tasks for Requests (Continued)
- Viewer Options Window
- Canceling a Request
- Holding a Request
- Changing Request Options
- Four Phases of a Concurrent Request
- Pending Phase
- Running Phase
- Completed Phase
- Inactive Phase
- System Administrator Monitoring Privileges
- Review Log Files
- Managing Log Files and Tables
- Purge Request Results
- Summary

Managing Concurrent Requests

- Objectives
- Grouping Concurrent Programs and Requests
- Creating a Request Group
- Using a Request Group with a Code
- Submitting Requests: Form Compared with Responsibility
- Implementing a Coded Request Group
- Customization Example
- Creating the New Form Function
- Passable Request Parameters for Request Groups

- Adding the Function to the Menu
- Using a Request Group Code as an Argument
- Customizing the Submit Requests Window
- List of All Submit Request Parameters
- Controlling Access to Concurrent Programs using RBAC
- Enabling Access to Concurrent Programs using RBAC
- Enabling Access to Concurrent Programs using RBAC, continued
- Controlling Access to Viewing Requests using RBAC
- Defining a Request Set
- Request Set Stages
- Stage Status
- Linking of Stages
- Defining Request Sets Step 1: Enter Request Set Name
- Defining Request Sets Step 2: Define a Stage
- Defining Request Sets Step 3: Enter Requests for Stage
- Defining Request Sets Step 4: Enter Request Parameter
- Defining Request Sets Step 5: Link Stages
- Submitting a Request Set
- User Request Set Privileges
- System Administrator Request Set Privileges
- Summary

Administering Concurrent Managers

- Objectives
- Concurrent Requests, Programs, and Processes
- Overview of Concurrent Processing
- Generic Service Management (GSM)
- Defining a Concurrent Manager
- Defining Work Shifts
- Balancing Process Workload Over Time
- Work Shift Hierarchy
- Concurrent Managers: Program Libraries
- Assigning Workshifts to a Manager
- Specializing a Concurrent Manager
- Specialization Rules
- Action Types
- Specializing a Concurrent Manager: Combined Rules
- Combining Multiple Actions Within Rules
- Concurrent Request Types
- Using Request Types
- Conflicts Domains
- Processing Conflicts Domain
- Control Functions of Concurrent Managers (Forms-based UI)
- Managing Concurrent Processing with Oracle Applications Manager
- Activating and Deactivating Concurrent Managers in Oracle Applications

- Manager
- Internal Monitor and ICM
- Defining a Transaction Manager
- Monitoring Concurrent Requests in Oracle Applications Manager
- Concurrent Processing Charts in Oracle Applications Manager
- Concurrent Processing Activity Reports
- Viewing Log and Output Files
- Managing Parallel Concurrent Processing
- Summary

Introduction to Oracle Applications Manager (OAM)

- Objectives
- What is Oracle Applications Manager?
- Benefits of Oracle Applications Manager
- Oracle Applications Manager Integrates with ...
- Management Pack for Oracle E-Business Suite
- Integration with Oracle Enterprise Manager 11g Fusion Middleware Control
- Summary

System Monitoring in Oracle Applications Manager

- Objectives
- Navigation in OAM
- Applications Dashboard
- Applications Dashboard Overview
- Applications Dashboard Applications System Status
- Applications Dashboard Configuration Changes
- Applications Dashboard Web Components Status
- Applications Dashboard System Alerts
- Applications Dashboard System Alerts, Metrics, and Logs
- Applications Dashboard User Initiated Alerts
- Applications Dashboard Performance
- Applications Dashboard Critical Activities
- Applications Dashboard Critical Activities Setup
- Applications Dashboard Business Flows
- Applications Dashboard Security
- Monitoring Oracle E-Business Suite Security Setup – Diagnostic Tests
- Applications Dashboard Software Updates
- Site Map
- Site Map Administration
- Host Management
- Host Management – Status
- Host Management – Configuration
- Application Services
- Concurrent Requests
- Workflow

- Site Map Monitoring
- Database Status Details
- Monitoring Forms
- Forms Runaway Processes
- Forms Sessions
- Forms Runtime Processes
- Database Initialization (init.ora) Parameters
- Custom Reporting Utilities SQL Extensions
- Site Map Maintenance
- Site Map Diagnostics and Repair
- Monitoring Oracle E-Business Suite Security
- Setting Up Oracle Applications Manager
- Dashboard Configuration and Alerting Setup
- Setting Up Dashboard Configuration and Alerting
- Knowledge Base Setup
- Concurrent Requests Setup
- Signon Audit Setup
- Summary

Oracle Applications Manager - Diagnostics and Troubleshooting

- Objectives
- Diagnostics and Troubleshooting in Oracle Applications Manager
- Diagnostics and Repair
- Troubleshooting Wizards
- Concurrent Manager Recovery Wizard
- Service Infrastructure Wizard
- Generic Collection Service (GCS) and Forms Monitoring Wizard
- CP Signature
- Dashboard Collection Wizard
- Support Cart
- Summary

Managing Profile Options

- Objectives
- Personal Profile Values
- System Profile Options - Profile Hierarchy Types
- Profile Hierarchy Levels - Security
- Profile Hierarchy Levels - Organization
- Profile Hierarchy Levels - Server
- System Profile Options
- Profile Categories
- Searching for Profile Options and Profile Option Values
- Using User Profile Values as Defaults
- Auditing-Related Profile Options
- Currency-Related Options

- Flexfield-Related Options
- Online Reporting-Related Options
- Personal Output Viewer Options
- User-Related Concurrent Request Profile Options
- Security Signon Profile Options
- Summary

Introduction to Oracle Workflow

- Objectives
- Enabling E-Business
- Inter-Enterprise Business Processes
- Traditional Workflow
- Workflow-Driven Business Processes
- Sample Workflow Process
- Event-Based Workflow
- Subscription-Based Processing
- System Integration with Oracle Workflow
- Business Process-Based Integration
- Supported System Integration Types
- Designing Applications for Change
- Designing Applications for Integration
- Summary

Oracle Workflow Components

- Objectives
- Oracle Workflow Architecture
- Oracle Workflow Components
- Workflow Engine
- Workflow Processes
- Supported Process Constructs
- Oracle Workflow Builder
- Business Event System Architecture
- Advanced Queuing, an Enabling Technology
- Oracle Database Communication Alternatives
- Accessing Oracle Workflow Web Pages
- Oracle Workflow Home Pages
- Notification System
- Worklist Web Pages
- E-Mail Notifications
- Directory Services
- Directory Services Roles
- Status Monitor Web Pages
- Workflow Definitions Loader
- Workflow XML Loader
- Workflow Manager

- Service Components
- Oracle Workflow Documentation
- Summary

Workflow Tasks for the System Administrator

- Objectives
- Administrator Monitor
 - Viewing Workflows in the Administrator Monitor
 - Viewing Activity History in the Administrator Monitor
 - Viewing a Status Diagram in the Administrator Monitor
 - Viewing Responses in the Administrator Monitor
 - Viewing Workflow Details in the Administrator Monitor
 - Viewing Error Information in the Administrator Monitor
 - Viewing Child Workflows in the Administrator Monitor
- Administering Notifications
 - Viewing Notifications from a Web Browser
 - Notification Details
 - Reassigning Notifications
 - Administrator Search for Notifications
 - Vacation Rules
- Oracle Workflow Manager
 - Service Components
 - Oracle Workflow Manager
 - Service Components
 - Service Component
 - Accessing Service Components in Oracle Workflow Manager
 - Managing Service Components
 - Service Component Container Logs
 - Service Component Startup Modes
 - Agent Listeners
 - Notification Mailers
 - Outbound Notification Mailer Processing
 - Inbound Notification Mailer Processing
 - Notification Mailer Setup
 - Connecting to Mail Servers Through SSL
 - SMTP Authentication
 - Notification Mailer Basic Configuration
 - Notification Mailer Advanced Configuration
 - Advanced Configuration – Define
 - Advanced Configuration – Details
 - Advanced Configuration – E-mail Servers
 - Advanced Configuration – Message Generation
 - Advanced Configuration – Schedule Events
 - Advanced Configuration – Tags
 - Advanced Configuration – Test

- Advanced Configuration – Review
- Component Details for Notification Mailers
- Notification Mailer Throughput
- Handling Notification Mailer Errors
- Testing Mailer URL Access
- System Status
- Workflow System Status
- Workflow Status in Oracle Applications Manager
- Work Items
- Completed Work Items
- Background Engines
- Purging Workflow Data
- Workflow Purge APIs
- Control Queue Cleanup
- Queue Propagation
- Agent Activity
- Searching Messages on an Agent
- Summary

SOA and Web Services for the System Administrator

- Objectives
- Service-Oriented Architecture
- Comparing Methods – Challenges
- Web Services
- SOA in Oracle E-Business Suite
- Architectural Changes in Oracle E-Business Suite Integrated SOA Gateway
- Release 12.2
- Product Dependencies
- Oracle E-Business Suite Integrated SOA Gateway
- Oracle Integration Repository
- Service Provider: Expose Oracle E-Business Suite and Custom Interfaces as Web Services
- High-Level Overview of Service Development
- Assigning User Roles
- Performing Administrative Tasks
- Accessing Oracle Integration Repository
- Searching and Viewing Integration Details
- Managing Service Life Cycle Activities: SOAP
- Generating SOAP Services
- Service Generation with Interaction Patterns
- Deploying SOAP Services
- Undeploying, Retiring, and Resetting Services
- Activating Retired SOAP Services
- Managing Service Life Cycle Activities: REST
- Deploying REST Services
- Undeploying REST Services

- Performing Administrative Tasks
- Authentication for SOAP-based Web Services
- Authorization Through Security Grants
- Authorization Through Security Grants: Both SOAP and REST Services
- Authorization to Verify Execution Privileges
- Performing Administrative Tasks
- Composite Service Enablement Process
- Administering Composite Service – BPEL
- Performing Administrative Tasks
- Understanding Custom Interfaces and Services
- Administering Custom Integration Interfaces and Services
- Performing Administrative Tasks
- Logging Configuration for Web Services
- Viewing and Searching Existing Configurations
- Adding a New Log Configuration
- Modifying an Existing Log Configuration
- Performing Administrative Tasks
- Service Monitor: A Web Service Auditing and Monitoring Tool
- Searching SOAP Messages
- Viewing SOAP Requests and Responses
- Viewing Service Processing Logs
- Purging SOAP Messages, Audits, and Logs
- Performing Administrative Tasks
- Service Invocation Framework (SIF)
- Architecture Overview
- Setup Tasks
- Implementing Event Driven Service Invocation
- Runtime Invocation Process Flow
- Setting Profile Options
- Supported Web Service Clients
- Running Diagnostic Tests
- Summary

Auditing System Resources

- Objectives
- Auditing Oracle E-Business Suite
- Auditing User Activity
- Sign-On Audit Profile Option
- Sign-On Audit Reports
- Signon Audit Forms Report
- Signon Audit Concurrent Requests Report
- Signon Audit Responsibilities Report
- Signon Audit Unsuccessful Logins Report
- Signon Audit Users Report
- Purge Audit Records

- Monitor Users Window
- Auditing Database Changes
- Steps for Setting Up AuditTrail
- Identify Tables and Columns to Audit
- Create an Audit Group
- Audit Tables Window
- Identifying the Schema to be Audited
- Enabling Audit Processing
- Audit Shadow Tables
- Shadow Table Views
- Summary

Managing Printers

- Objectives
- Oracle Print Definition Components
- Relationships of the Printer Components
- Formatting Information
- Defining Printers
- Finding Existing Printer Types
- Registering a New Printer
- Defining a New Printer Type
- Printing with Pasta
- Setup for Basic Printing with Pasta
- The pasta.cfg file
- Example of Setting Margins with pasta.cfg
- Modifying an Existing Printer Type to Use Pasta
- Generating Other Formats using the Preprocessing Option
- Using Pasta with BI Publisher
- Other Customization Materials for Oracle E-Business Suite Printing
- Other Sources of Information for Oracle E-Business Suite Printing
- Summary

Overview of Flexfields

- Objectives
- Benefits of Flexfields
- Modifying Oracle E-Business Suite
- Key and Descriptive Flexfields
- Flexfield Structures and Flexfield Segments
- Segment Prompts and Value Descriptions
- Validating Input Using Value Sets
- Using Flexfield Value Security
- Differences Among Similarly-Named Features
- Key Flexfields
- Intelligent Keys
- Oracle E-Business Suite Key Flexfields (Partial List)

- Descriptive Flexfields
- Using Descriptive Flexfields
- Using Reference Fields
- Using Different Contexts: Asset Category Flexfield
- Oracle E-Business Suite Descriptive Flexfields (Partial)
- Standard Request Submission (SRS) and Flexfields
- Storing Flexfield Data Internally
- Implementing a Flexfield – Steps
- Summary

Overview of Personalizations

- Course Objectives
- Test Access To Personalizations Before Production Deployment
- Concepts: Pages
- Concepts: Items
- Examples of Oracle Forms Personalizations
- Oracle Forms Personalizations
- Examples of OA Framework Personalizations
- User Personalizations
- Administrator-seeded Personalizations
- Personalizations vs. Extensions
- Benefits of Personalizations
- Benefits of Extensions
- Summary

Appendix – Overview of Folders

- Objectives
- Folders: Definition
- Administering Folders: Topics
- Assigning a Default Folder to a Responsibility
- Assigning a Default Folder to a User
- Assigning Ownership of a Folder
- Deleting a Folder Definition
- Summary