

Course description: IBM WebSphere Portal 6.1 System Administration 1 (WP711GB)



Course Duration: 3 days

Audience

The target audience for this course is Independent Software Vendors, Systems Integrators, and IBM technical staff, Architects and developers who are new to WebSphere Portal and are responsible for implementing solutions using WebSphere Portal 6.1. IBM WebSphere Portal version 5 architects and developers will benefit as well.

Pre-requisites

Before taking this course, students should have

- Intermediate administration skills using WebSphere Application Server version 6.0 or 6.1, acquired through experience and / or completion of IBM WebSphere Application Server Administration course (SW246) or (WA361)
- Basic knowledge of portals and WebSphere Portal, acquired by completing IBM WebSphere Portal Version 6.0 Fundamentals (WP010)

Objective

After completing this course, students should be able to:

- Install WebSphere Portal
- Describe the portal architecture
- Migrate the default database to an enterprise database
- Enable authentication using an LDAP repository
- Navigate and manage the portal
- Implement portal security
- Administer portal using attribute based techniques
- Build and manage composite applications
- Federate a portal node into a cell
- Brand the portal

Topics to be covered:

Installing a Basic Portal

Introduction to Portal Administration

- Overview of Installation
- Options and Impact

Planning a Portal Installation

- Create an Installation Plan

The Portal Installation Wizard

- Install the Portal

Defining a Portal and Its Benefits

- The Portal Framework
- Benefits of Implementing a Portal
- IBM WebSphere Portal
- Portal Terminology
- Reasons for Implementing a Portal

Introduction to Portal Administration

- Common Administrative Tasks

Troubleshooting Installation Problems

- Logs and Other Tools Used to Resolve Installation Issues

Exploring the Portal and its Architecture Content Summary

Exploring WebSphere and Portal Architecture

- Defining the Relationships Between WebSphere and Portal
- The WebSphere_Portal Instance
- WebSphere Portal Offerings and Included Products
- High-Availability Support
- Portal Standards
- Default Port Assignments

Examining the Out-of-the-Box WebSphere Portal Implementation

- Default Page Hierarchy
- Customizing Portal Pages
- Command Line Options

Configuring a Portal for Production and Future Scalability item

Examining the Portal Configuration Database item

- Portal Configuration
- Default Database Configuration
- Enterprise Database Alternatives
- Benefits of Splitting the Configuration Database

Migrating and Splitting the Configuration Database

- Command Line Options for Migrating Data to Enterprise Databases
- The Configuration Wizards

Enabling LDAP-Based Authentication

Examining WebSphere and Portal Security

- The Portal Authentication Process
- Authentication Methods
- User Profiles
- User Repositories
- Security Enhancements

Using an LDAP as the User Repository

- Default Portal Security and LDAP
- LDAP Security Configuration Files
- Securing the Portal with IBM Tivoli Directory Server

Navigating and Managing the Portal

Page Management Techniques

Portal Page Management Techniques

- Creating and Managing Portal Pages
- Creating a Portal Page Hierarchy
- Managing Page Properties
- Managing Page Layout
- Managing Portlets on Pages
- Exporting and Importing Page Hierarchies

Deploying Portlets

- The Portlet Deployment Unit
- Deploying a Portlet Application
- Managing Deployed Portlets

Managing Portal Security

Portal Security

- The Portal Resource Security Mechanism
- Privileges
- Propagation
- Inheritance
- Traversal
- Granting Appropriate Administrative Access to Developers

Implementing Portal Security

- Implementing Security on Portal Pages
- Implementing Security on Portlets

Administering Portal Using Attribute-Based Techniques

Exploring Attribute-Based Administration

- Attribute-Based Administration
- Creating a Show/Hide Rule
- Portal Attributes
- Managing Rules

Creating and Applying Theme Policies

- Exporting Policies
- Editing a Theme Policy
- Updating a Theme Policy

Building and Managing Composite Applications

Composite Applications

- What are Composite Applications?
- Designing a Composite Application
- Business Components
- Benefits of Deploying Composite Applications
- Templates and Applications
- The Point of Variability Concept

Building and Deploying a Composite Application

- Building a Composite Application Template
- Deploying an Application Based on a Template
- Propagating a Template to Another Server

Federating a Portal Node into a Cell

Exploring WebSphere Cells

- Cell Terminology
- Managing the Underlying WebSphere Instances
- Clustering a Portal Node

Creating a Cell

- Creating a Deployment Manager Profile
- Federating a Stand-Alone Portal Node into a Cell

Branding the Portal

Branding a Portal

- Brands
- Themes
- Skins

Designing a Theme

- Design Considerations

Customizing a Theme

- Portal Style Sheets
- Portal Property Files

Deploying Custom Themes

- Deploying to a Stand-Alone Portal Server
- Deploying to a Cluster