WebSphere 7.x Network Deployment Administration Fundamentals

Course Summary

Description

This course is designed to show administrators and developers how to install, configure and manage a WebSphere Application Server 7.0 system. The course is designed to provide the students with a very solid understanding of the why and the how of WebSphere Administration.
Web Sphere administration is a vast topic that can cover many weeks of training. The course contains more materials & labs than can be covered in a 5 day class. This allows the instructor to focus on and deliver the content that is most relevant to the needs of the students.

Topics

- WebSphere Administration Overview
- Installing WebSphere Application Server 7.x
- Profiles & Centralized Configuration Management
- Basic Administration
- Advanced Administration

- HTTP Plug-in and Web Servers
- WebSphere clustering & High Availability
- Advanced Application Deployment
- Securing WebSphere
- Odds & Ends (Optional Topics)

Audience

This course is designed for administrators and developers.

Prerequisites

There are no prerequisites for this course.

Duration

Five days

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Course Outline

I. WebSphere Administration Overview
   A. WebSphere product family
   B. Overview of WAS administration
   C. Themes in WAS administration

II. Installing WAS V7.x
   A. WebSphere installer overview
   B. Graphical installer vs. Silent installer
   C. Installing and uninstalling WAS 7.x
   D. Installing and uninstalling WAS 7.x
   E. Network Deployment

III. Profiles and Centralized Configuration
   A. Management
   B. Profiles
   C. WAS Configuration repository
   D. Centralized configuration management in WAS 7.x

IV. Basic Administration
   A. Using the administrative console
   B. Installing applications
   C. Creating Data sources
   D. Configuring security in the
   E. administration console
   F. Configuring and administering the web container
   G. Configuring and administering the
   H. EJB container
   I. Basic troubleshooting and log files
   J. Virtual hosts

V. Advanced Administration
   A. JMX
   B. WAS Administration Architecture
   C. WAS scripting overview
   D. JACL and Jython

   E. Automating WebSphere administration tasks
   F. Java Connector Architecture (JCA)

VI. HTTP Plug-in and Web Servers
   A. Installing IHS
   B. Installing HTTP Plug-in
   C. Basic IHS administration
   D. Configuring HTTP Plug-in
   E. Strategies for integrating
   F. WebSphere and an HTTP Server

VII. WebSphere Clustering and High Availability
   A. Clustering topologies
   B. High availability WAS configurations
   C. Creating and managing clusters
   D. Data replication service

VIII. Advanced Application Deployment
   A. JEE Class loaders
   B. JEE Packaging
   C. Deployment descriptors
   D. Automating application builds and deployments with ANT
   E. Troubleshooting application deployment issues

IX. Securing WebSphere Application Server
   A. WebSphere security architecture
   B. Java and JEE Security Model
   C. WebSphere and SSL
   D. WebSphere security scenarios

X. Odds & Ends (Optional Topics)
   A. Configuring JMS
   B. Tivoli Performance Viewer
   C. WAS performance management
   D. WebSphere Edge Servers Overview