KOENIG SOLUTIONS · COURSE OUTLINE

Administering WebSphere Application Server

Learn to install, configure, deploy and secure applications on WebSphere Application Server, from clustering to scripting and monitoring.

5 Days	10	66
40 HOURS	MODULES	TOPICS

COURSE OVERVIEW

This course covers the WebSphere family, editions and the J2EE platform, followed by WebSphere Application Server architecture, installation and profile configuration. It then addresses navigating the administrative console, configuring web servers and plug-ins, and managing single and multiple cell environments. Further modules cover deploying and configuring enterprise applications, setting up distributed servers and repositories, building clusters and topologies, and administering security including user registries, roles and SSL. The course concludes with troubleshooting, performance monitoring and the use of scripting tools such as wsadmin and Jacl.

WHO THIS COURSE IS FOR

- **WebSphere Administrators**
- **System Administrators**
- **Application Server Administrators**
- **Infrastructure Engineers**
- **Middleware Administrators**

LEARNING OBJECTIVES

- Describe the WebSphere family, editions and J2EE platform
- Configure WebSphere Application Server profiles and topologies
- Apply the administrative console to configure web servers
- Deploy and configure enterprise applications and resources
- Configure distributed servers, cells, nodes and repositories
- Build clusters and plan vertical and horizontal scaling
- Configure security including user registries and SSL
- Apply scripting tools such as wsadmin and Jacl

COURSE SYLLABUS

10 Modules, 66 Topics

01

Introduction

TOPICS

The WebSphere family · Various WAS editions · The J2EE Platform · What is new in WAS

02

Architecture, Component, Installation & Configuration

TOPICS

- Understanding of Server profiles
- Base Server architecture and components
- WAS ND architecture and components
- Installation of WAS ND - GUI & Silent
- Manage Profiles
- Cells, Nodes, Clusters
- Topologies for best practices

03

Administrative Console

TOPICS

Where the console resides · Navigating the GUI Configure · Application server · Install & Configure Web Server · Web server plug-in · Single cell configurations

04

Server Environments

TOPICS

Single cell configurations · Multiple cell configurations · Multiple cell configurations · Mixed node versions in a cell

05

Deploying and Configuring Enterprise Applications

TOPICS

- Overview of Enterprise application
- Application Assembly
- Deploying and configuring Enterprise applications
- Setting up resources
- Application server properties
- Web container properties
- EJB container properties

06

Distributed Servers and Repositories

TOPICS

- Network deployment (WAS-ND)
- Creating cells
- Federating nodes
- Configuration repositories
- **Repository:** Cell, Nodes, Servers
- **Repository:** deployment manager
- Job manager
- Administrative agent
- Managing remote Web servers

07

Clusters and Topologies

TOPICS

Creating clusters · Replication · Adding servers to clusters · Cluster management · Network dispatcher · Vertical scaling · Horizontal scaling · Multi clustering

08

Administering Security

TOPICS

- Global Security overview
- Administrative security
- Configuring User registries and repositories
- Custom registry security
- Local OS Level security
- File-based Federated Repository
- Mapping roles to users and groups
- Application security
- SSL administration

09

Troubleshooting and Monitoring

TOPICS

Performance Monitoring Infrastructure · Tivoli Performance Viewer (TPV) · Performance monitoring Servlet · Console messages · Trace facility · Log analyzer

10

Scripting Tools

TOPICS

Bean Scripting Framework · Mbeans · wsadmin · Jacl scripting · Configuring wsadmin, wsadmin objects · Advanced wsadmin

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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