



WEBSPHERE:

WebSphere may be a set of Java-based tools from IBM that permits customers to make and manage sophisticated business. WebSphere refers to a brand of proprietary computer software products within the genre of enterprise software referred to as "application and integration middleware". These software products are employed by end-users to make and integrate applications with other applications. IBM WebSphere has been available to the overall market since 1998. WebSphere is both a technology and a brand of software, created by IBM, as a set of business applications.

WebSphere is supposed to make business solutions through a group of Java-based tools enabling developers to make and manage business applications through a website's front end. WebSphere solutions are meant for high-volume, e-commerce transactions.

Application Infrastructure:

- IBM WebSphere Application Server - a web application server
- IBM Workload Deployer - a hardware appliance that provides access to IBM middleware virtual images and patterns
- IBM WebSphere eXtreme Scale - an in-memory data grid for use in high-performance computing
- IBM HTTP Server
- IBM WebSphere Adapters
- IBM WebSphere Business Events
- IBM WebSphere Edge Components



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- IBM WebSphere Host On-Demand (HOD) Host On-Demand Web-based TN3270, TN5250 and VT420 Terminal Emulation.
- IBM WebSphere Message Broker
- IBM WebSphere Multichannel Bank Transformation Toolkit
- IBM MQ (previously referred to as IBM MQSeries and IBM WebSphere MQ)
- IBM WebSphere Portlet Factory
- IBM WebSphere Process Server

Supported Platforms:

- AIX
- HP
- IBM i
- z/OS
- Linux
- Solaris
- Windows

Course Content:

Overview and new feature:

- Architecture overview
- Topology and terminology



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- Topology and terminology – Express
- Main themes, product packaging and development tools
- Overview of new features

WebSphere Installation and migration:

- installation and migration
- Installation overview
- Profiles – details
- V6 Install – Network deployment and express
- Web server plug-in installation
- WebSphere Application Server V6 migration

WebSphere system management

System management:

- System management architecture
- Resource scoping
- Configuration repository
- File synchronization



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- Administrative clients overview
- Browser-based administrative console
- Start/stop/monitor processes
- Other commands
- Build cell – add / remove nodes
- Cell, deployment manager, node and node agent
- Export and import configuration archives
- Manage generic servers
- Manage node groups
- Application management overview
- Application management install and uninstall
- Application management Lab – install application
- Managed application resources – enhanced EARs
- Lab – enhanced EAR files
- Fine -grained application update
- Lab – application update
- JDBC management
- Manage Web server nodes



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- WRD Overview
- WRD deployment automation
- Administrative security

WebSphere Security

Security:

- Overview and architecture
- J2EE security for applications
- Data Dictionary Objects
- Java 2 security for applications
- CSiv2 security
- JACC
- Security for system administrator
- Authentication mechanism and user registries
- Adding security for J2C/JDBC resources
- Adding security for JMS resources



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WebSphere Service integration technologies

Service integration technologies:

- Overview
- Architecture
- Configuration service integration bus resources
- Configuring JMS resources for service integration bus
- Workload management(WLM) and high availability (HA)
- Mediation

WebSphere Workload management and high availability

Workload management and high availability:

- Administrative details
- Data replication services(DRS)
- High Availability Overview
- High Availability Details

WebSphere Runtime functions

Class loader and jndi:



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- Class loader Overview
- Details
- Examples
- Class loader Overview
- Problem determination and best practice
- Dynamic application reload
- JNDI Overview
- JNDI Basics
- JNDI Advanced
- JNDI Examples
- JNDI Problem determination
- Transport channel service

WebSphere Performance

Performance and demonstrations:

- Application server performance overview
- WebSphere Application Server dynamic cache
- Performance advisor and Tivoli Performance Viewer(TPV)



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- Request metrics

WebSphere Problem determination

Problem determination:

- Overview – where to start
- Log files overview
- Loading and tracing
- Log and trace analyzer
- Hung thread detection
- Generating an IBM heap dump
- Connection leak diagnostics

Our learning methods include:

- Comprehensive course selection of Instructor-Led Training
- Logistical convenience and interactive classroom experience of Online Training
- Flexible pacing and instructor-guided support of Mentored Learning
- Self-paced convenience of Online ANYTIME



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In addition:

- Interview preparation with mock interview drills
- Effective resume building
- Process of applying jobs at the right places

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