

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block,

Info soft it solutions ,Software Training& Development 905968394,918254087

IBM WEB SPHERE APPLICATION SERVER TRAINING

•1 Introduction to WebSphere Application Server (WAS)

- Overview of WAS architecture and components
- Versions and editions of WebSphere Application Server

• 2 Installation and Configuration

- System requirements and prerequisites
- Installation of WebSphere Application Server
- Configuration profiles (standalone, network deployment)
- Deployment manager and node agent

•3 Managing Applications

- Deploying applications to WebSphere Application Server
- Application deployment descriptors (web.xml, application.xml)
- Class loading and class loader policies

• 4 Administrative Console

- Using the WebSphere administrative console for management tasks
- Configuration of server resources (data sources, JMS resources, etc.)
- Monitoring and managing servers and applications

- **5 Clustering and High Availability**

- Clustering concepts and configurations
- High availability options and failover mechanisms
- Load balancing and session management in a cluster

- **6 Security**

- Authentication and authorization
- SSL configuration and certificate management
- Secure communication channels

- **7 Performance Tuning and Monitoring**

- Performance monitoring tools and techniques
- Tuning JVM settings
- Analyzing and optimizing application performance

- **8 WebSphere Scripting**

- Introduction to scripting with Jython and Jacl
- Automating administrative tasks with wsadmin

- **9 Integration with Other IBM Products**

- Integration with IBM HTTP Server (IHS)
- Integration with IBM WebSphere MQ
- Integration with IBM WebSphere Portal Server

- **10 Troubleshooting and Debugging**

- Common problems and solutions
- Logging and tracing
- Debugging techniques

ADVANCE TOPICS:-

1. Introduction to IBM WebSphere Application Server

- Overview of WAS Advanced
- Features and benefits
- Editions and licensing options

2. Installation and Configuration

- Pre-installation considerations
- Installation methods (GUI, command-line)
- Configuration profiles (standalone, federated)
- Configuration tools and utilities

3. Application Deployment

- Deployment options (EAR, WAR, JAR)
- Deployment descriptors and configuration
- Deployment strategies (hot deployment, cold deployment)
- Class loading and application isolation

4. Server Administration

- Administrative Console overview
- Command-line administration (wsadmin)
- Managing server resources (CPU, memory)
- Performance tuning and optimization

5. High Availability and Scalability

- Clustering concepts and configurations
- Load balancing techniques
- Failover and session replication
- Dynamic cluster management

6. Security

- Security architecture overview
- Authentication and authorization mechanisms
- SSL/TLS configuration
- Integrating with LDAP and other security providers

7. Monitoring and Troubleshooting

- Monitoring tools and dashboards
- Performance monitoring and tuning
- Log analysis and management
- Troubleshooting common issues

8. Integration with Other IBM Products

- Integration with IBM MQ (Message Queue)
- Integration with IBM DB2 and other databases
- Web services integration (SOAP, REST)

9. Cloud-Native Features

- Containerization with Docker
- Orchestration with Kubernetes
- Integration with cloud platforms (IBM Cloud, AWS, Azure)

10. Compliance and Standards

- Java EE compliance
- WebSphere Application Server profiles
- Compatibility with Java frameworks and applications

11. Upgrades and Maintenance

- Patch management and updates
- Version upgrades and migration strategies
- Backup and recovery procedures