

MIDDLEWARE TECHNOLOGIES USING JBOSS

By Dr. Vishwanath Rao

Introduction to client server computing:

- Client – Server – File Server
- Database server
- Group server
- Object server
- Web server
- Client / server building blocks.

RPC Fundamentals:

- Message Passing- RPC for Two-Tier Client/Server Architectures
- Three-Tier Client/Server Architectures.

Middleware Concepts

- Objects
- Web Services
- Middleware Elements
- Vendor Architecture
- Interoperability
- Middleware requirements
- Middleware in Distributed Applications
- Types of Middleware
- Transaction-Oriented Middleware.

Exploring Other Types of Middleware:

- Real-time Middleware
- CORBA
- multimedia Middleware–Reflective Middleware
- Agent-Based Middleware
- RFID Middleware.

Mobile Middleware

- Evolution of Mobile Network Standards
- Mobile Systems
- Evolution- Mobile services vs. Mobile applications
- Need for a Middleware

- What is ESB
- Messaging Concepts
- Different ESB based technologies available

JBoss Server as Application Server with ESB Capability

- Java EE Overview and Architecture
- JBoss EAP Server Background and Overview

- Server Architecture and Configuration
 - Server Config File - Extensions, Subsystems, Schemas, Paths
 - Interfaces and Socket Bindings

Application Deployment

- Java EE Deployment Archives (JARs, WARs, EARs)
- Deployment/Undeployment with the CLI and Management Console
- Deployment Scanner - Auto-

Configuration and Management - Part 2

- JBoss Modules and Modular Classloading
- Defining a Module
- Working with Dependencies
- Server Logging