

ACTIVE MQ COURSE CONTENTS (3 DAYS)

By Dr. Vishwanath Rao

Introduction

- Understanding the benefits of ActiveMQ
- The "whats and whys" of JMS and MOMs
- ActiveMQ installation
- Core Config options
- Clustering, High Availability and Scaling
- Performance Tuning and Monitoring
- General troubleshooting

ActiveMQ Fundamentals

- An overview of Messaging, Message Queues and Brokering
- Introduction to JMS
- ActiveMQ Architecture
- Overview of Load Balancing
- Management tools

ActiveMQ Installation and Configuration

- Obtaining and Installing ActiveMQ
- Starting and Stopping the service
- First steps in configuration
- When to use Topics and Queues in JMS

Persistence

- ActiveMQ message store
- JDBC message store
- Caching and Journaling

ActiveMQ Clustering and High Availability

- High Availability
- Store and Forward Network of Brokers
- Master / Slave Clusters
- Configuring Response Timeout
- More about Load Balancing

Administration

- Libraries

- ActiveMQ Web console
- Logging and log configuration
- Dead letter queue
- How you stay up-to-date with advisory topics

Monitoring

- Monitoring of ActiveMQ with JMX
- Monitoring ActiveMQ with Nagios

Transactions

- JMS transactions
- Message orientated middleware and transactions

Performance and Tuning

- Performance Tuning overview
- JVM Performance Tuning
- Network and TCP tuning
- Optimization of the message store and cursors
- Async
- More tuning tips

Security

- Authentication and Encryption