Red Hat AMQ Administration(AD440)

# Course Code: AD440

# Course Duration: 25 hours(5 half days)

Learn to configure, manage, and monitor broker instances Red Hat® AMQ Administration (AD440) helps system administrators, architects, and developers acquire the skills they need to administer the message broker, Red Hat JBoss AMQ. Through numerous hands-on exercises, the student will create, configure, manage, and monitor broker instances including hardened, clustered brokers that provide high availability and failover.

# Course Objectives

 Install a JBoss AMQ 7 broker

 Configure multicast and anycast addresses

 Secure the AMQ broker for authentication and authorization  Cluster AMQ brokers

 Monitor JBoss AMQ brokers

# Who Can Benefit

This course is intended for application administrators, developers, IT leaders, and application architects.

# Prerequisites

 General understanding of enterprise messaging concepts and message-oriented middleware  Ability to read and edit XML files

# Syllabus

# **Day 1**

**Course introduction**

Introduce and review the course.

**Install the broker**

* Install JBoss AMQ.
* create a broker instance
* verify connectivity to the instance.

**Configuration**

* Configure message addresses
* Configure queues.

# **Day 2**

**Using AMQ Core Protocol JMS Clients**

* Installation
* Configuration
* Network Connections
* message delivery through JMS clients

**Secure access to the broker**

* Configure authentication
* Configure authorization
* Configure encryption

# **Day 3**

**Configure broker persistence**

* Configure zero persistence
* Configure file-based persistence
* Configure database-backed persistence

**Manage broker resource consumption**

Configure the broker to limit memory and other resource consumption.

# **Day 4**

**Implement broker clustering, high availability, and failover**

Create a scalable and highly available cluster of brokers.

**Monitor and manage the broker**

* Monitor and manage broker resources using logging
* Monitor and manage broker resources using web console

**Troubleshooting**

* Viewing log entries
* Trouble shooting using logs
* Known issues

# **Day 5**

**Route messages to brokers**

* Install JBoss AMQ interconnect
* configure routes to brokers

**Comprehensive review of Red Hat AMQ administration**

Configure Red Hat JBoss AMQ brokers and verify proper operation.