IBM WebSphere MQ Online Training

Duration: 30 Hours

BASIC INFO & MQ OVERVIEW

- What Is Platform
- What Is OS
- What Is an Application
- What Is Distributed Application
- Development What, Why, Where, How
- WebSphere MQ Benefits & MQ Characteristics
- MQ Administrator Boundaries

MESSAGE OVERVIEW

- What is Message
- Types of Messages
    - Datagram
    - Request
    - Reply
    - Report

Message Parts

- Message Descriptor/MQMD header
- Message Data/Payload/Application Data/Message body
- What is Persistent Message
- What is Non-Persistent Message

MQ INSTALATIONS/UNINSTALATIONS (On Windows, On Linux)

- MQ Server
- MQ Client
- MQ Fix Pac
- MQ Support Pac

MIGRATION

- MQ MIGRATION
- OS MIGRATION

FILE SYSTEM

- ON WINDOWS
- ON LINUX

MQ OBJECTS

QUEUE MANAGER

QUEUE

- Predefined Queues
- Dynamic Queues

CHANNEL

- Message Channels (All Combinations)
- MQI Channels

LISTENER
PROCESS NAME
LIST SERVICE

- Command Service
- Server Service

MQ COMMANDS

- Control
- Commands   MQSC
- Commands   PCF
  Commands

MQI CALLS Major Calls Minor Calls

- MQCONN
- MQCONNX
- MQDISC
- MQOPEN
- MQPUT
- MQPUT1
- MQGET
- MQCLOSE
- MQBEGIN
- MQCOMIT
- MQBACK
- MQINQ

RUNMQSC MODES & SCRIPT FILESDISTRIBUTED QUEUE MANAGEMENT

- What Is DQM
- What Is MCP
- What Is MCA
- Types of MCAs
  - Sender MCA
  - Receiver MCA
  - Server MCA
  - Requester MCA
  - Cluster Sender MCA
  - Cluster Receiver MCA

- What Is Message Channel

Possible No Of Message channels

- Sender-Receiver
- Sender-Requester
- Server-Receiver
- Server-Requester
- Cluster Sender-Cluster Receiver

HOW TO DEFINE AUTO CHANNELS
CHANNLE LIFECYCLE

- Inactive
- Initializatio
- n Binding
- Retrying
- Running
- Pause
- Stopping
- Stopped

MULTIHOPPING

- Using DefXmitq Attribute
- Using Queue Manager Alias

Channel Exits Configuration TRIGGERING
OVERVIEW & TYPES CHANNEL
TRIGGERING

- USING TRIGDATA
- USING PROCESS OBJECT

APPLICATION TRIGGERING

- USING PROCESS OBJECT

TRIGGER MONITORS

- CHANNEL INITIATOR
- TRIGGER MONITOR

WHAT IS TRIGGER MESSAGE? WHAT IS INITIATION QUEUE?
LOGS, LOGGING & TROUBLE SHOOTING

TYPES OF LOGS & LOGGING
LOGS

- Error Logs
    - MQ level Error Logs
    - Queue Manager level Error Logs

TRANSACTION LOGS

- Primary Logs
- Secondary Logs

LOGGING

- Circular Logging
- Linear Logging

What is Check Point?
What is Restart Recovery?
What is Media Recovery?
Logs Backup & FDC Files Overview

REMOTE ADMINISTRATION &COMMAND SERVER OVERVIEW MQI CHANNELS

- Client Connection
- Server Connection
- **ENVORONMENT VARIABLES**

    - MQSERVER Variable
    - MQCHLLIB Variable
    - MQCHLTAB Variable
    - Auto Server Connection Channel Creation

CONFIGURATION FILES OVERVIEW

- MQS.INI
- QM.INI
- WINDOWS REGISTRY

SECURITY & SSL COFIGURATION

- OA
- M
  ACL
- Global Permissions
- Object Permissions

One way SSL Configuration

Two way SSL Configuration & SSL Environment Variables
CLUSTERING

- Cluster Overview
- Repository
- Full Repository
- Partial Repository
- Cluster Channels
- Cluster Queues
  High Availability
- Workload
- Balancing Fail Over
- Handling
- Suspend & Resume Queue Managers In Cluster
- Refresh & Reset Cluster

CONFIGURATION BACKUP & MESSAGES BACKUP
DEADLETTER HANDLER USAGE
BASIC UNIX COMMANDS

RPM TOLL USAGE & FTP BASIC COMMANDS UNIX
SERVER CONNECTION TOOLS & UTILITIES

- Putty
- XShell
- FTP (DOWNLOAD & UPLOAD FILES)

- WinScp

MONITORING TOOLS

- MQ Explorer
- Qflex

TICKETING TOOLS

- HPSD REMEDY

Publish/Subscribe Overview & Miscellaneous Concepts