

WMQ32 IBM MQ - Debugging

- Course description** This course teaches the problem determination and debugging skills required by IBM MQ administrators on non z/OS platforms required to resolve day-to-day problems.
- Who Should Attend** Technical personnel such as systems administrators, operations analysts, operators and anyone else who may be responsible for providing day-to-day support of IBM MQ on z/OS platforms.
- Pre-Requisites** Students are expected to be already quite familiar with IBM MQ, and will have attended WMQ15 and/or WMQ30 or gained the equivalent knowledge
- Duration** 3 Days

Problem Determination Introduction

IBM MQ Architecture
PD terminology
Formal PD procedures
Categorising problems

Debugging Output and Tools

IBM MQ error logs
IBM MQ FFST
Operating system diagnostic output
IBM MQ logs
The dead letter queue
The dead letter queue handler
IBM MQ commands
WebSphere for Windows MQ Explorer
WebSphere for Windows MQ Services
IBM MQ events
IBM MQ tracing

System Related Problems

Typical system related problems
Typical queue related problems
Logging
Buffers
Backup and recovery
Starting and stopping queue managers
Migration

Intercommunications

Why distributed ?
Review of the components
Channel types
Channel states
Channel status
Starting and stopping channels
Channel failures at startup
Channel failures during operation
Keeping channels running
In doubt channels
Channel performance
Remote administration

Security

Security mechanisms
Enabling / disabling security
Access control
Setmqaut
Client security
Application oriented security
Channel security
Security exits
SSL overview
Implementing SSL in IBM MQ

Transaction Related Problems

Terminology and concepts
Syncpoint vs No_Syncpoint
Single phase commit
Dual phase commit
Rollback
Poisoned messages
In doubt units of work
the IBM MQ log

Triggering Problems

Triggering review
IBM supplied trigger monitors
Triggering checklist
Triggering at depth
Triggering and the DLQ
Triggering and units of work

Application Related Problems

Queue depth problems
Message expiry
Dynamic queues
Missing messages
Report messages
Data conversion