

WMQ33 IBM MQ for z/OS - Debugging

- Course description** This course teaches the problem determination and debugging skills required by IBM MQ administrators on 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 WMQ20 and/or WMQ31 or gained the equivalent knowledge
- Duration** 3 Days

Problem Determination Introduction

WMQ Architecture
 PD terminology
 Formal PD procedures
 Categorising problems

Debugging Output and Tools

WMQ address space job logs
 WMQ ISPF admin interface
 WMQ Dumps
 WMQ tracing & IPCS basics
 SMF tracing
 The dead letter queue
 The dead letter queue handler
 WMQ commands

System Related Problems

Typical system related problems
 Typical queue related problems
 Installation issues
 Buffer management
 Page set management
 Storage class management
 WMQ Logging
 Backup and recovery
 Starting and stopping qmgrs

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
 RACF classes and profiles
 Enabling / disabling security
 Access control
 Application oriented security
 Channel security
 Security exits
 SSL overview
 Implementing SSL in WMQ
 Client security

Transaction Related Problems

Terminology and concepts
 Syncpoint vs No_Syncpoint
 Single phase commit
 Two phase commit
 Rollback
 Poisoned messages
 In doubt units of work
 CICS / IMS / RRS co-ordination
 The WMQ 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