IBM MQ V8 System Administration for z/OS (WM302G)

Course Content

Course Description:

This course provides the skills that are necessary to configure and manage an IBM MQ V8 queue manager on z/OS.

Through lectures and hands-on lab exercises, you learn how to install, customize, operate, and administer IBM MQ V8. The course covers configuring a z/OS queue manager, setting up distributed queuing, IBM MQ clustering, IBM MQ on z/OS recovery and restart, security, and performance considerations. It also covers day-to-day administration and problem recovery. The hands-on lab exercises give you direct experience with IBM MQ V8 tasks such as defining and monitoring channels, configuring IBM MQ clusters, and problem determination activities.

Course Objectives:

After completing this course, you should be able to:
- Describe message-oriented middleware and the capabilities it must provide
- Identify the key components of IBM MQ for z/OS
- Summarize the responsibilities of the IBM MQ administrator
- Configure IBM MQ IBM V8 for z/OS
- Enable IBM MQ for z/OS eight-byte RBA and buffers above 2 GB
- Demonstrate how to create and change queues and place and retrieve messages from a queue
- Define and demonstrate how to set up and work with distributed queuing
- Differentiate between an IBM MQ queue manager and an IBM MQ client
- Describe and demonstrate how to set up an IBM MQ cluster
- Contrast point-to-point and publish/subscribe messaging styles
- Describe shared queues and queue sharing groups
- Summarize IBM MQ for z/OS recovery and restart activities
- Demonstrate how to use IBM MQ events for monitoring
- Summarize performance considerations
- Describe security considerations for IBM MQ for z/OS
- Describe and implement connection authentication and channel authentication
- Identify correct problem determination techniques for IBM MQ for z/OS
- Summarize basic use and configuration of IBM MQ Managed File Transfer
- Describe IBM MQ support for CICS and IMS interfaces

Target Audience:

This intermediate course is designed for technical support personnel who implement, operate, and perform day-to-day administration of IBM MQ V8 on z/OS.

Prerequisites:

You should have:

- Basic knowledge of IBM MQ V8 concepts, obtained through experience **or** by successfully completing course *Technical Introduction to IBM MQ* ([WM103G](WM103G))
- Working proficiency with the z/OS platform, obtained through experience **or** by successfully completing course *Fundamental System Skills in z/OS* ([ES10G](ES10G))

Knowledge of TCP/IP is also helpful.

Topics:

- **IBM MQ review**

- **IBM MQ architecture, installation, and configuration**

- **Exercise: Configuring an IBM MQ for z/OS queue manager**

- **IBM MQ for z/OS administrative interface options**

- **Exercise: Working with queues**

- **Distributed queuing**

- **Exercise: Working with channels**

- **IBM MQ clients**

- **Exercise: Working with IBM MQ clients**

- **IBM MQ cluster basics**

- **Exercise: Working with IBM MQ clusters**

- **Publish/subscribe basics**

- **Exercise: Publish/subscribe basics**

- **Queue sharing groups**

- **Using IBM MQ events and the dead-letter queue utility**

- **Exercise: Working with IBM MQ events**

- **Security considerations**

- **Exercise: Security**

- **Problem determination**

- **IBM MQ Managed File Transfer**

- **Exercise: IBM MQ Managed File Transfer configuration for z/OS**

- **IBM MQ for z/OS backup, recovery, and related file tasks**

- **Exercise: Working with file handling utilities**

- **Support for CICS, IMS, and HTTP applicationsg**