

Websphere MQ 9 Managed File Transfer Course Contents (5 days)

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Introduction to IBM WebSphere MQ

- Overview of messaging concepts
- Introduction to IBM MQ
- Understanding messaging patterns and scenarios

IBM MQ Architecture

- Components of IBM MQ (queue managers, queues, channels, listeners, etc.)
- Client-server architecture
- High availability and failover configurations

Messaging Patterns and Models

- Point-to-point messaging
- Publish/subscribe messaging
- Request/reply messaging

Message Formats and Protocols

- Understanding message formats (MQRFH2, JSON, XML, etc.)
- Supported protocols (MQI, AMQP, MQTT, etc.)

Message Persistence and Durability

- Configuring message persistence options
- Implementing message durability and recovery mechanisms

Introduction to IBM WebSphere MQ Managed File Transfer (MFT)

- Overview of managed file transfer concepts
- Understanding the need for secure and reliable file transfer solutions
- Introduction to IBM WebSphere MQ and its role in MFT

Installation and Configuration

- System requirements and prerequisites
- Installation of IBM WebSphere MQ MFT
- Configuration of MFT agents and components

Managed File Transfer Concepts

- Understanding file transfer protocols (FTP, SFTP, FTPS, etc.)
- Security considerations and encryption options

- Transfer modes and transfer protocols

Creating Transfer Definitions

- Configuring transfer definitions for file transfer operations
- Defining source and destination endpoints
- Configuring transfer options (e.g., file naming conventions, scheduling, retries)

Monitoring and Management

- Monitoring transfer activity and status
- Troubleshooting common transfer issues
- Configuring alerts and notifications

Security and Compliance

- Implementing security policies for file transfers
- Compliance requirements and audit trails
- Secure file storage and transfer protocols

Integration and Automation

- Integrating MFT with other IBM products (e.g., IBM Integration Bus, IBM MQ)
- Automating file transfer processes using scripting or APIs
- Implementing custom workflows and business rules

High Availability and Disaster Recovery

- Configuring high availability for MFT components
- Disaster recovery planning and implementation
- Backup and restore procedures

Performance Tuning and Optimization

- Optimizing file transfer performance
- Tuning MFT configurations for efficiency
- Monitoring and analyzing performance metrics

Advanced Topics (Optional)

- Advanced security configurations (e.g., certificate management, LDAP integration)
- Advanced scripting and customization
- Integrating with external systems and applications

Best Practices and Recommendations

- Best practices for deployment and configuration
- Recommendations for scalability and performance

- Case studies and real-world examples

Hands-On Labs and Exercises

- Practical exercises to reinforce learning objectives
- Hands-on experience with configuring and managing MFT environments
- Troubleshooting scenarios and solutions