Description: Description: 5300_IBMpos

Fundamentals of IBM MQ

WM157 (Classroom)

ZM157 (Self-paced)

Course description

This course introduces solution architects to IBM MQ. This course begins with a review of IBM MQ features and components. Installation options and methods are discussed. You learn the role of the administrator and the tools provided to perform administrative techniques. You learn how queues and queue managers work, the types of queues, and how they are used in the MQ environment. You are introduced to the communication between queue managers and an application and a queue manager.

IBM MQ has many features, functions, and options. In this introduction to solution architects, a few of these are discussed. Among the select key features architects are introduced to include distributed queuing, handling undeliverable messages, how publishing and subscriptions work in MQ, and development options for creating custom application that connect to IBM MQ.

Through hands-on exercises, you become familiar with IBM MQ. You learn to install IBM MQ, create a queue manager and queue, and test messaging. You are introduced to the IBM MQ administration tools to create and manage queue managers, queues, and work with messages. You learn to work with MQ script commands and command files.

This course is a subset of the 5-day course: *IBM MQ V9.1 System Administration* (WM156 /ZM156). Developers who need in-depth training with IBM MQ should take WM156 / ZM156.

For information about other related courses, see the IBM Training website:

**ibm.com**/training

General information

Delivery method

Classroom or self-paced virtual classroom (SPVC)

Course level

ERC 1.1

Product and version

IBM MQ version 9.1

Audience

This course is designed for solution architects.

Learning objectives

After completing this course, you should be able to:

* Describe the IBM MQ deployment options
* Create and manage queue managers, queues, and channels
* Use the IBM MQ sample programs and utilities to test the IBM MQ
* Describe distributed queuing
* Understand MQ client connections to a queue manager
* Understand JMS and REST development options in MQ

Prerequisites

* None

Duration

1 day

Skill level

Basic

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| Classroom (ILT) setup requirements | |
| Processor | Intel Pentium 2.5 GHz or faster |
| GB RAM | 16 |
| GB free disk space | 120 |
| Network requirements | None |
| Other requirements | None |

Notes

The following unit and exercise durations are estimates, and might not reflect every class experience. If the course is customized or abbreviated, the duration of unchanged units will probably increase.

This is a new course

Course agenda

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| Course introduction  Duration: 15 minutes |

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| Unit 1. Introducing IBM MQ  Duration: 1 hour and 30 minutes | |
| Overview | This unit describes IBM MQ basic concepts and components that are applicable to the administrator role. It also describes installation and deployment options for IBM MQ on-premises and in the Cloud. |
| Learning objectives | After completing this unit, you should be able to:   * Describe IBM MQ features * Identify the IBM MQ components and their functions * Describe the Administrator role and tools * Outline IBM MQ installation options * Configure IBM MQ Console |

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| Exercise 1. Getting started with IBM MQ  Duration: 1 hour | |
| Overview | In this exercise, you explore your IBM MQ installation. To validate your installation, you create a queue manager and queue, and test messaging. You also set up basic security to use IBM MQ console administration tools. |
| Learning objectives | After completing this exercise, you should be able to:   * Explore your IBM MQ installation by creating a queue and testing messaging * Validate your installation by creating a queue and testing messaging * Configure the web server for user access to IBM MQ Console |

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| Unit 2. Working with IBM MQ administration tools  Duration: 1 hour and 30 minutes | |
| Overview | In this unit, you learn how to use the IBM MQ commands and command scripts to verify an installation and create a queue manager and local queues. |
| Learning objectives | After completing this unit, you should be able to:   * Create queue managers and objects with IBM MQ control commands and script commands * Describe queue manager sets * Stop and delete queue managers |

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| Exercise 2. Working with IBM MQ administration tools  Duration: 1 hour | |
| Overview | In this exercise, you use IBM MQ control commands to create a queue manager, start it, and create queues. You also use MQ script commands and command files. You also use IBM MQ Explorer to create queue manager sets to administer a group of queue managers collectively. |
| Learning objectives | After completing this exercise, you should be able to:   * Work with IBM MQ administration tools to create and manage queue managers, queues, and messaging * Create a queue manager set to administer queue managers as a group |

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| Unit 3. Key features of IBM MQ  Duration: 1 hour and 30 minutes | |
| Overview | In this unit, you learn how to set up a distributed topology with all the required components, including message channels. |
| Learning objectives | After completing this unit, you should be able to:   * Describe the topologies of distributed queuing methods * Explain how undeliverable messages are handled * Discuss publishing and subscriptions in IBM MQ * Understand the purpose of the IBM MQ Client * List development options to connect to IBM MQ |

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| Unit 4. Course summary  Duration: 30 minutes | |
| Overview | This unit summarizes the course and provides information for future study. |
| Learning objectives | After completing this unit, you should be able to:   * Describe the course objectives and what you learned * Earn a certificate for this course * Identify other IBM Training courses that are related to this topic * Locate appropriate resources for further study |

For more information

To learn more about this course and other related offerings, and to schedule training, see **ibm.com**/training

To learn more about validating your technical skills with IBM certification, see **ibm.com**/certify

To stay informed about IBM training, see the following sites:

IBM Training News: https://www.ibm.com/blogs/ibm-training

YouTube: https://www.youtube.com/IBMSupportTV

Facebook: https://www.facebook.com/groups/IBMTrainingandSkills

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