

IBM MQ Appliance Overview for IBM MQ Administrators

ZM051 (Self-paced)

Course description

This course is designed to provide technical professionals with the skills they need to set up and administer the IBM MQ Appliance.

The IBM MQ Appliance provides a simplified messaging solution by combining many of the benefits of IBM MQ with the benefits of a physical appliance. In this course, you learn how to do basic setup, high availability setup, and configuration and management of the IBM MQ Appliance.

In the hands-on lab exercises, you practice the skills and concepts that are presented in the course. You explore the IBM MQ Appliance capabilities, its use cases, and the unique aspects of working with IBM MQ in hardware form.

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

http://www.ibm.com/training

General information

Delivery method

Self-paced virtual classroom (SPVC)

Course level

ERC 1.0

Product and version

IBM MQ Appliance

Audience

This course is designed for IBM MQ systems administrators and other IT professionals such as system architects, system designers, and managers who intend to implement an IBM MQ Appliance solution for enterprise messaging and data movement.

Learning objectives

After completing this course, you should be able to:

* Describe the IBM MQ Appliance and its features
* State the benefits and capabilities of the IBM MQ Appliance
* Explain the use cases for the appliance
* Identify the unique aspects of using the IBM MQ Appliance as opposed to IBM MQ software
* Perform the following administrator functions on the IBM MQ Appliance:
  + Basic setup
  + Configuration and management
  + High availability setup
  + Security setup
  + Migrating queue managers
  + Maintaining firmware

Prerequisites

* A working knowledge of IBM MQ V8 system administration
* A solid understanding of your business needs in regard to messaging and data movement

Duration

1 day

Skill level

Intermediate

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| Classroom (ILT) setup requirements | |
| Processor | 2.5 GHz or faster Dual Core with 4 processors |
| GB RAM | 120 |
| GB free disk space | 8 |
| Network requirements | LAN / Internet / Fixed IP |
| 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 course is not directly related to any other course, but it does assume that the student has sufficient knowledge of the administration of IBM MQ.

Course agenda

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| Course introduction  Duration: 15 minutes |

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| Unit 1. Introduction to the IBM MQ Appliance  Duration: 30 minutes | |
| Overview | This unit introduces the IBM MQ Appliance and describes its components, functions, and business value. |
| Learning objectives | After completing this unit, you should be able to:   * Describe the features of the IBM MQ Appliance * Describe the functions of the IBM MQ Appliance |

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| Exercise 1. Appliance configuration  Duration: 45 minutes | |
| Overview | In this exercise, you configure an IBM MQ virtual appliance and test that the basic configuration is working as expected. |
| Learning objectives | After completing this exercise, you should be able to:   * Configure an IBM MQ Appliance * Test an IBM MQ Appliance to see that it is performing as expected |

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| Unit 2. Key capabilities of the IBM MQ Appliance  Duration: 40 minutes | |
| Overview | In this unit, you learn the key features of the IBM MQ Appliance. |
| Learning objectives | After completing this unit, you should be able to:   * Describe the key capabilities of the IBM MQ Appliance * Administer the IBM MQ Appliance * Configure the IBM MQ Appliance for high availability and security * Troubleshoot messaging performance on the IBM MQ Appliance |

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| Exercise 2. High availability setup  Duration: 30 minutes | |
| Overview | In this exercise, you configure an IBM MQ virtual appliance for high availability and test high availability failover. |
| Learning objectives | After completing this exercise, you should be able to:   * Configure an IBM MQ Appliance for high availability * Test HA failover on an IBM MQ Appliance |

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| Exercise 3. The IBM MQ console web GUI  Duration: 45 minutes | |
| Overview | In this exercise, you explore some of the appliance administration capabilities of the new web UI and the configuration capabilities of the IBM MQ console. |
| Learning objectives | After completing this exercise, you should be able to:   * Use the new web UI of the IBM MQ Appliance * Administer the appliance by using the IBM MQ console |

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| Exercise 4. Monitoring and troubleshooting  Duration: 45 minutes | |
| Overview | In this exercise, you explore some of the available options for monitoring the IBM MQ Appliance by using a combination of command line and reporting widgets in the IBM MQ console. You also learn how to implement the application activity trace for the IBM MQ Appliance, and explore some of the commands that are available for diagnosing and resolving issues. |
| Learning objectives | After completing this exercise, you should be able to:   * Monitor activity by using the IBM MQ Appliance * Run application activity traces on the IBM MQ Appliance * Describe commands that are available for diagnosing and resolving issues |

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| Exercise 5. Security setup  Duration: 45 minutes | |
| Overview | In this exercise, you explore the unique security aspects of the IBM MQ Appliance and compare them to a standard IBM MQ software installation. To successfully complete this lab, you need to be familiar with basic IBM MQ security functions. |
| Learning objectives | After completing this exercise, you should be able to:   * Set up security on the IBM MQ Appliance * Implement SSL/TLS protection of channels between queue managers on separate platforms |

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| Unit 3. IBM MQ Appliance use cases  Duration: 30 minutes | |
| Overview | In this unit, you learn about the expected use cases for the IBM MQ Appliance. |
| Learning objectives | After completing this unit, you should be able to:   * Describe the expected use cases for the IBM MQ Appliance |

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| Exercise 6. Migrating queue managers to the IBM MQ Appliance  Duration: 45 minutes | |
| Overview | In this exercise, you explore the steps that are required to migrate an existing queue manager that is running on IBM MQ on Windows to the IBM MQ Appliance. |
| Learning objectives | After completing this exercise, you should be able to:   * Migrate an IBM MQ queue manager from IBM MQ on Windows to an IBM MQ Appliance |

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| Exercise 7. Service and maintenance  Duration: 30 minutes | |
| Overview | In this exercise, you learn how to back up and restore the configuration and how to apply service, such as upgrading the firmware on the IBM MQ Appliance. |
| Learning objectives | After completing this exercise, you should be able to:   * Back up and restore the configuration * Upgrade the firmware on an IBM MQ Appliance |

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| Unit 4. Course summary  Duration: 10 minutes | |
| Overview | This unit summarizes the course and provides information for future study. |
| Learning objectives | After completing this unit, you should be able to:   * Explain how the course met its learning objectives * Access the IBM Training website * 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: ibm.com/blogs/ibm-training

YouTube: youtube.com/IBMTraining

Facebook: facebook.com/ibmtraining

Twitter: twitter.com/IBMCloudEdu