

Designing, Implementing, and Managing IBM MQ V9 Clusters

Duration: 3 Days **Course Code: WM253G**

Overview:

This course prepares you to plan, design, configure, and administer IBM MQ clusters.

After a review of IBM MQ, the course explains the similarities and differences between administration of a cluster and administration of a distributed message IBM MQ environment. You learn cluster specific commands and procedures, and explore the role of a cluster in a highly available IBM MQ infrastructure. You learn how to do a detailed verification of a new cluster configuration, review and identify all resulting components, and troubleshoot problems.

You also learn about cluster administration, workload balancing, security, and use of publish/subscribe clusters. You learn how to recognize when a problem is due to connection authentication, channel authentication, or object authorizations. You also learn about design options such as overlapping clusters and use of clusters with z/OS queue sharing groups. Many of the considerations in this course are based on actual engagement experiences.

Target Audience:

This course is designed for IBM MQ administrators, architects, application developers, and other professionals who need to understand the design considerations, architectural role, and implementation of IBM MQ clusters

Objectives:

- Describe the basic IBM MQ components
- Identify which IBM MQ objects are used to impact routing in a cluster environment
- Identify who in your organization can impact the health of a cluster and the need for adequate communication
- Describe the correct role of a cluster in a highly available IBM MQ infrastructure
- Describe the differences and similarities between administering clustered and non-clustered IBM MQ environments
- Describe how to configure, verify, and troubleshoot an IBM MQ cluster
- Identify the various channels that are present in a cluster environment and how each is created
- Describe how to use separate transmission queues in a clustered queue manager
- Explain how to remove a queue manager from a cluster on a permanent or temporary basis
- Explain IBM MQ connection authentication
- Explain IBM MQ channel authentication
- Describe IBM MQ object authorizations
- Explain how to troubleshoot security challenges in a cluster
- List ways to influence workload balancing in a cluster
- Describe the history and basic components of IBM MQ publish/subscribe
- Explain the considerations and details of implementing publish/subscribe in an IBM MQ clustered environment
- Describe cluster design architectural considerations
- Summarize the benefits of design and configuration simplicity in a cluster implementation
- Explain how to configure overlapping clusters

Prerequisites:

Before taking this course, you should have experience with IBM MQ or complete one of the following courses:

- IBM MQ V9 System Administration (using Windows for labs)

(WM153G)
■ IBM MQ V9 System Administration (using Linux for labs)
(WM154G)
■ IBM MQ V8 System Administration for z/OS (WM302G)
You should also have working knowledge of the Windows operating system to run the lab exercises.

Content:

IBM MQ baseline	Exercise: Working with cluster administration tasks	Exercise: Configuring a publish/subscribe cluster
Exercise: Configuring and reviewing base IBM MQ resources	IBM MQ security and clusters	Cluster design considerations
Before you start	Exercise: Working with IBM MQ security	Exercise: Configuring an overlapping cluster
Understanding and implementing an IBM MQ cluster	Influencing workload balancing behavior	Course summary
Exercise: Implementing and verifying a cluster, cluster queues, and a cluster gateway	Exercise: Working with workload balancing options	
Cluster administration tasks and commands	Publish/subscribe and clusters	

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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