



French MQ User Group

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Réunion Teams + présentiel
hébergée par Société Générale

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Agenda

- Nouvelles du monde MQ
- Solution de Haute Dispo MQ
- Présentation Native HA
- Démonstration Native HA
- Tour de table
- Le point sur le licencing MQ en environnement HA
- Déploiement complet d'une infra MQ via Terraform/Ansible
- Observability & Dashboard
- MQ Agent



News du monde MQ

- Annonce IBM MQ 9.4.3 & 9.4.4
- IBM MQ and Extended Key Usage
- MQ Agent
- MQ Python
- Certification MQ Admin 9.4
- Fixpacks & CSU
- Vulnérabilités
- IBM Integration Community
- IBM Ideas
- Planning 2026...



Annonce IBM MQ 9.4.3 CD

Disponible depuis le 17/06/2025

- « Positive Authentication events »
 - Permet de logger les authentications réussies, en plus des authentications échouées
- Début du support des « long userid ».
 - Avant : limité à 12 caractères
 - La longueur maximum va progressivement être portée à ... 1024 caractères.
- MQ Console : onglet avec les options du « Display MQ Status » (qmstatus)
- Amélioration des JSON Web Token
 - Endpoint support pour JMS
- Native HA & Cross-Region Replication pour les containers
- Amélioration du support d'Ansible pour des déploiements automatisés

Positive Authentication events

- Avant MQ 9.4.3 :
 - avec **ALTER QMGR AUTHOREV(ENABLED)**
 - event de sécurité si problème d'autorisation
- Exemple :
 - mquser1 n'a aucune autorisation MQ
 - **amqsput OFDC01 DC501**
 - MQCONNX ended with reason code 2035

```

Event Type           : Queue Mgr Event [44]
Reason               : Not Authorized [2035]
Event created        : 2025/10/11 13:56:53.99 GMT
  Queue Mgr Name     : DC501
  Reason Qualifier    : Conn Not Authorized
  User Identifier     : mquser1
  Appl Type          : Unix
  Appl Name          : amqsput
    
```

Positive Authentication events

- A partir de MQ 9.4.3 :
 - avec `ALTER QMGR AUTHOREV(ENABLED) +`
 - `ALTER QMGR AUTHEVSC(FAILURES | ALLCONNS | ALLCHECKS)`
- Exemple :
 - mquser2 a des autorisations de CONNECT et de PUT
 - `amqsput OFDC01 DC501`

```
Event Type      : Queue Mgr Event [44]
Reason          : Authorized [3391]
Event created   : 2025/10/11 14:23:19.24 GMT
  Queue Mgr Name      : DC501
  Reason Qualifier    : Conn Authorized
  User Identifier     : mquser2
  Appl Type          : Unix
  Appl Name          : amqsput
```

```
Event Type      : Queue Mgr Event [44]
Reason          : Authorized [3391]
Event created   : 2025/10/11 14:23:19.24 GMT
  Queue Mgr Name      : DC501
  Reason Qualifier    : Open Authorized
  Queue Name         : OFDC01
  Open Options        : 0x00002010 [ fiq out ]
  User Identifier     : mquser2
  Appl Type          : Unix
  Appl Name          : amqsput
```

MQ-Ansible

IBM MQ Ansible roles and Galaxy collection
<https://github.com/ibm-messaging/mq-ansible/>

Issue Support

The code in this repository is provided and maintained on a community basis, and is not covered by any IBM commercial support agreement or warranty.

For enhancements, issues and fixes you are welcome raise an issue against this repository so that it may be considered. Alternatively, you may contribute updates as per the CLA outlined below.



Interested in contributing to this project? Please read our [IBM Contributor License Agreement](#) and our [Contributing Guide](#).

What is MQ-Ansible?

A collection for automating the installation and configuration of IBM MQ using Ansible on Ubuntu, Redhat, Windows and IBM AIX machines. Our aim is to make MQ-Ansible extensible for other platforms and more detailed IBM MQ configuration.

This directory contains:

- ansible [roles](#) for the installation and configuration of IBM MQ.
- module [queue_manager.py](#) to create and configure a queue manager.
- playbook [ibmmq.yml](#) which implements the roles and module.



Annonce IBM MQ 9.4.3 CD

Disponible depuis le 17/06/2025

- Changement de mode de calcul pour les licences MQ en environnement containers Native HA + CRR
- Support IP V6 en dual stack pour MQ en containers
- Connecteurs Kafka Connect
 - livrés avec MQ Advanced
 - font partie du code supporté par IBM
- Open Telemetry Tracing disponible pour MQ Appliance & z/OS
- CONNAME & CHLAUTH de 264 caractères pour z/OS

Par ailleurs, IBM annonce son intention de fournir la fonction Native HA & Cross Region Replication sur les architectures Linux x86-64, IBM Power, et IBM Z.



Deprecated

in the next mod level release of IBM MQ 9.4.x.

- TLS : 3DES CipherSpecs
 - ECDHE_ECDSA_3DES_EDE_CBC_SHA256
 - ECDHE_RSA_3DES_EDE_CBC_SHA256
- Certificats RSA avec des clés de moins de 2048 bits
- MacOS toolkit pour x86-64
 - Le toolkit pour ARM reste disponible



IBM MQ and Extended Key Usage

<https://community.ibm.com/community/user/blogs/robert-parker1/2025/09/23/ibm-mq-and-extended-key-usage>

- Up until recently, the various public CAs have been issuing certificates which have an EKU with both the **serverAuth** and **clientAuth** values. This would mean that those certificates could be used by a TLS server or TLS client.
- However, Google recently updated [their Chrome Root Program Policy](#) to disallow the **clientAuth** value, with plans to block (or not trust by default) CAs who issue certificates with this extension

Platform	Is the EKU value enforced?
IBM MQ on Unix, Linux, Windows	No
IBM MQ on IBM i	No
IBM MQ Appliance	No
IBM MQ Containers	No
IBM MQ on IBM Cloud	No
IBM MQ on z/OS	Yes
IBM MQ C Client libraries	No
IBM MQ Unmanaged .NET	No
IBM MQIPT	Yes
IBM MQ Java/JMS client libraries	Yes, dependant on JRE configuration

Which users are affected by this change?

From the above information the following IBM MQ users who meet all the points below will be affected by this change and will need to act:

- Customers using certificates issued by a public Certificate Authority like DigiCert.
- Customers who use mutual TLS for authentication.
- Customers who are either:
 - Connecting to or from queue managers on z/OS
 - Connecting through IBM MQIPT.
 - Using a Java/JMS application where the JREs default TrustManager enforces the EKU.



Annonce IBM MQ 9.4.4 CD

Disponible depuis le 16/10/2025

- Native HA sur Linux (hors containers)
 - Ainsi que Cross Region Replication (CRR)
- GSKit version 9
- Support de FIPS 140-3 sur certaines distributions Linux
- Filtres MQ Console
- Chiffrement des liens de réplication RDQM
- Reserved Instance pour MQ SaaS sur AWS

Preview publique MQ Agent

- Permet à un serveur MCP (Model Context Protocol) d'interagir avec un Queue Manager via un LLM comme IBM watsonx

Sample IBM MQ MCP server

<https://github.com/ibm-messaging/mq-mcp-server/>

Sample IBM MQ MCP server

MCP (Model Context Protocol) is an open standard that allows LLMs and AI agents to discover and interact with external services such as databases, REST APIs, files, and other resources. You can read up on the details of MCP [here](#).

This repo contains a simple MCP server, written in Python, that exposes a subset of the [MQ Administrative REST API](#) as two MCP tools:

- `dsqmq`: lists any queue managers that are local to the mqweb server, and whether they are running or not
- `runmqsc`: runs any MQSC command against a specific queue manager. This makes use of the [plain text MQSC API](#)

You can use this MCP server with any LLM which has an MCP client in it to allow that LLM to interact with, and potentially configure, your queue managers.

Mise à jour librairie Python pour IBM MQ

ibmmq 2.0.0b2

<https://pypi.org/project/ibmmq/>

ibmmq 2.0.0b2

 Dernière version

`pip install ibmmq` 

Dernière version : 30 sept. 2025

Python Extension for IBM MQ

Navigation

- Description du projet
- Historique des versions
- Téléchargement des fichiers

Détails vérifiés 
These details have been [verified by PyPI](#)

Maintenu par
 **ibmmqmet**

Description du projet

Python library for IBM MQ

The “ibmmq” package is an open-source Python extension for IBM MQ.

It gives a full-featured implementation of the MQI programming interface, with additional helper functions to assist with system monitoring and management.

Sample code

To put a message on a queue:

Certification MQ Admin 9.4

Exam C1000-200: IBM MQ v9.4 Administrator – Professional

IBM Certified MQ v9.4 Administrator - Professional

Certification overview, objectives, exam preparation and registration



Overview

Recommended Skills

Requirements

Exam Objectives

Exam Resources

Certification Overview

An IBM Certified systems administrator on IBM MQ v9.4 LTS is a person who possesses broad product knowledge and is expected to plan, install, configure, and maintain the product across different platforms. Administrators should be able to perform tasks such as installation, configuration management, troubleshooting, updating of releases, as well as backup and migration.

Candidates are required to have a conceptual understanding of the IBM MQ's optional components. It is expected that systems administrators will generally be self-sufficient and be able to perform the tasks involved in the role with limited assistance from peers, product documentation, and vendor support services. Professional-level certifications assess intermediate skills and are designed for candidates with at least two years of hands-on



IBM Certified MQ v9.4
Administrator - Professional

- Sujets très variées (IBM i, container, JT, Appliance, MQ Saas, MFT, ...)

Number of questions: 64

Number of questions to pass: 41

Time allowed: 90 minutes

Professional Certification Program from IBM

C1000-200-ENU: IBM MQ v9.4 Administrator – Professional

Examination Score Report

Candidate: Luc-Michel Demey

Candidate ID:

Registration Number

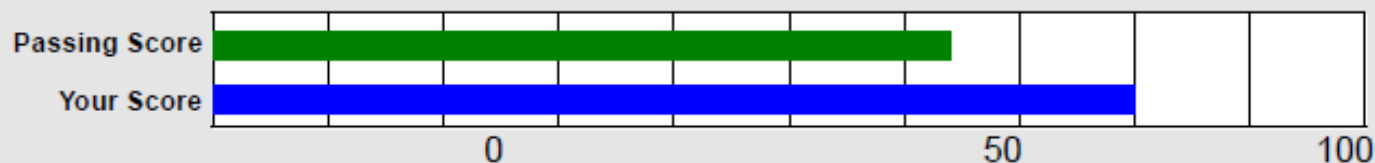
Exam Series: C1000-200-ENU

Date: Friday, September 26, 2025

Site Number: 69251



Passing Score: 64% (41 out of 64) Your Score: 80% (51 out of 64) Grade: Pass



Section/Category

Your Score

Overall	80% (51 out of 64)
Section 1: Architecture Planning and Availability	90% (9 out of 10)
Section 2: Installation and Configuration	64% (7 out of 11)
Section 3: Messaging Concepts and Connectivity	91% (10 out of 11)
Section 4: Security	88% (7 out of 8)



Fin de support MQ 9.2

- Depuis le 30/09/2025
- Beaucoup d'environnements en 9.2
- Migration nécessaire
- Cible : 9.3 ou 9.4
- Envisager les versions CD

Correctifs / Fixes

<https://www.ibm.com/support/pages/node/7105264>

MQ 9.4 LTS	Version 9.4.0.16 disponible - (10/2025) Fix Pack 9.4.0.20 prévu 02/2026	
MQ 9.4 CD	Version 9.4.4 disponible le 16/10/2025 CSU 9.4.3.1 04/09/2025 EOS 06/2026	EOS 10/2026
MQ 9.3 LTS	Version 9.3.0.35 disponible - CSU (10/2025) Fix Pack 9.3.0.40 prévu 04/2026	
MQ 9.3 CD	Version 9.3.5 disponible (02/2024)	EOS 02/2025
MQ 9.2 LTS	Version 9.2.0.38 disponible - CSU (10/2025) Fix Pack 9.2.0.40 prévu 12/2025	EOS 09/2025
MQ 9.1 LTS	Version 9.1.0.32 disponible - CSU (10/2025) Plus de Fix Pack prévu	EOS 09/2023
MQ 9.0 LTS	Version 9.0.0.27 disponible - CSU (10/2024) Plus de Fix Pack prévu	EOS 09/2021
MQ 8.0	Fix Pack 8.0.0.16 disponible (03/2021) Plus de Fix Pack prévu	EOS : 04/2020

Correctifs de sécurité

IBM MQ 9.3.0.6 à IBM MQ 9.4.1 et CVSS > 7.0

APAR	Description	
DT438705	IBM MQ CVE-2025-21587, CVE-2025-4447 [CVSS base score 7.4]	Java
DT438713	IBM MQ CVE-2025-21587, CVE-2025-30698, CVE-2025-2900 [CVSS base score 7.5]	
DT439059	IBM MQ CVE-2025-30472 [highest CVSS 9.8]	RDQM
DT433544	IBM MQ Appliance CVE-2022-49043 [CVSS base score 8.1]	
IT47597	IBM MQ CVE-2025-0975 and IBM MQ Appliance CVE-2025-0975 [CVSS base score 8.8]	MQ Console
IT47065	IBM MQ Appliance CVE-2024-36020 [CVSS base score 7.1]	
IT46501	IBM MQ CVE-2024-40681 and IBM MQ Appliance CVE-2024-40681 [CVSS base score 7.5]	
IT46892	IBM MQ CVE-2024-21147, CVE-2024-21140, CVE-2024-21144, CVE-2024-21138 [CVSS base score 7.4]	

Rappel : CVSS >= 7.0 (Gravité élevée / critique) → correction sous 14 jours

IBM Integration Community

[https://community.ibm.com/community/user/integration/](https://community.ibm.com/community/user/integration/(sélection))
(sélection)



Titre	Auteur	MàJ
IBM MQ's resilient messaging networks, protecting you against multi-dimensional outages	Kim Clark	24/10/2025
Understanding IBM MQ .NET Client Evolution (v8.0 to v9.4)	Shivaprasad D N	21/10/2025
Beyond containers: Expanding the reach of Native HA & Cross-region replication	Jonathan Rumsey	17/10/2025
MQ Performance on OpenShift/AWS	Sam Massey	14/10/2025
IBM MQ high availability and disaster recovery options	Kim Clark Aiden Gallagher	14/08/2025
Simplified JWT Authentication in MQ JMS	Shashikanth Rao Thambrahalli	22/06/2025
Modernising Identity in IBM MQ: Long User IDs in MQ 9.4.3 CD	Vasily Shcherbinin	18/06/2025
Certificate Overview of IBM MQ v9.4.x on OpenShift	Aiden Gallagher	06/06/2025
Detecting MQ connection type	Morag Hughson	14/05/2025



IBM Ideas

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Export CSV ↓

List contains 761 ideas.

We need a IBM MQ C and .NET redistributable client for Linux 64-bit,x86_64 that does not contain 32-bit executable/libraries [MESNS-I-914]

Submitted

Currently, <https://www.ibm.com/docs/en/ibm-mq/9.4.x?topic=clients-limitations-other-considerations-redistributable> includes a warning: "Important: IBM Support is..."

Idea for [MQ, MQ Advanced & MQ Appliance](#) 4 0 Created on 7 Oct 2025

MQ z/OS SMF data should contain client version info [MESNS-I-913]

Under review

SMF data (115/116) should contain the client version of the connecting client. The SVRCONN client version is currently available (RVERSION) when issuing the MQ z/O...

Idea for [MQ, MQ Advanced & MQ Appliance](#) 5 3 Created on 1 Oct 2025

CERTLABL for auto-defined cluster sender channels [MESNS-I-910]

Under review

Certificate Authorities will be enforcing in the near future that the ECU extension of X509 certificates are separated between client side and server side certificates. Th...

Idea for [MQ, MQ Advanced & MQ Appliance](#) 1 0 Created on 30 Sep 2025



IBM Ideas : <https://ideas.ibm.com/>

Positive authorisation events [MESNS-I-841]

Future consideration

Today, Authority Events are used to trace unauthorized access attempts to an MQ object. For access auditing purposes, we would also like to have "pos...

Idea for [MQ, MQ Advanced & MQ Appliance](#)  2  0  Created on 14 Mar 2025

Add Declarative Queues/Topics/Channels to the Operator [MESNS-I-807]

Future consideration

In the new CP4I there is support for declarative queues, topics and channels. We notice that this is a very nice feature and makes deploying integratio...

Idea for [MQ, MQ Advanced & MQ Appliance](#)  12  0  Created on 9 Jan 2025

Add support for Prometheus Metrics [MESNS-I-715]

Future consideration

Currently, to generate key metrics (queue manager, queues, channels, etc), we have to use the sample (<https://github.com/ibm-messaging/mq-metric-...>

Idea for [MQ, MQ Advanced & MQ Appliance](#)  5  0  Created on 23 May 2024

Increase the length of shortname in MQ over the current limitation of 12 char [MESNS-I-722]

Future consideration

Today when customer setup LDAP in MQ, there is a limitation of 12 char as short name. Please look into it to increase the length of short name over 12 ...

Idea for [MQ, MQ Advanced & MQ Appliance](#)  6  0  Created on 5 Jun 2024

MQ Console to have ability to display more information on Cluster Membership [MESNS-I-800]

Future consideration

It would be useful for the MQ Console to have the ability to display more information on Cluster Membership, similar to the information that is output f...

Idea for [MQ, MQ Advanced & MQ Appliance](#)  1  0  Created on 10 Dec 2024

IBM MQ Container and Operator: expose more detailed metrics for prometheus monitoring.

Future consideration

[MESNS-I-790]

Today, as it is in MQ Operator, mq container expose a set of metrics that seems to be no enough for more detailed monitoring. We will need a plan to ...

Idea for [MQ, MQ Advanced & MQ Appliance](#)  2  0  Created on 19 Nov 2024



Prochaines réunions - Planning 2026

- Nombre de réunions
- Dates
- Lieux
- Sujets



Merci pour votre participation !