



# Groupe MQ - 4 Avril 2023



Réunion Webex + présentiel hébergée par IBM

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# Agenda

- 09:30 : Les nouvelles du monde MQ (Luc-Michel Demey)
- 10:00 : ChatBot MQ (Guillaume Gelb)
- 11:00 : Clusters MQ : Amélioration de SCLM (Guillaume Gelb)
- 11:15 : Haute Dispo MQ avec Native HA (Saad Benachi)
- 14:30 : Tour de table
- 15:00 : Haute dispo MQ avec MQ Appliance (Guillaume Gelb)
- 16:00 : MQ on Cloud : MQ en SaaS (Luc-Michel Demey)
- 17h00 : Fin de de l'événement





# News du monde MQ

- Annonces IBM MQ 9.3.1 / MQ 9.3.2 (CD)
- Fixpacks + Nouvelle numérotation
- Vulnérabilités
- IBM Integration Community



# Rappel IBM MQ 9.3.1

- IBM MQ 9.3.1 : CD
  - CAPEXPYR devient un attribut "first class" des files MQ
  - Support de RHEL 9 pour RDQM
  - Support du Stream pour les Shared Queues z/OS
  - Améliorations SMF pour les statistiques des files
  - Déplacement des librairies .NET
  - Allégement du liberty pour mqweb





# Annonce IBM MQ 9.3.2

## IBM MQ 9.3.2 : CD (02/2023)

- Nouveautés HA sur MQ Appliance
  - Possibilité de configurer une paire d'appliances HA sur un site de reprise après sinistre, de sorte que HA soit accessible à la fois sur le site principal et sur le site de reprise.
- Native HA, jusqu'ici réservée aux installations IBM Cloud Pak® for Integration, est maintenant disponible pour la version MQ Advanced.
- Nouvelle vue dans MQ Console pour les applications connectées
- Support TLS 1.3 pour les client .NET managed
- Nouveaux attributs dans le QMSTATUS
  - En particulier pour le type et la taille des logs et NATIVEHA
- Support des StreamingQ par SMF
- Améliorations MQIPT, MQ MFT, IBM MQ classes for JMS, et REST API



# Rappel : Nouvelle numérotation des fixes MQ

- Deux types de fixes :
  - Fixes "classiques" (pour version LTS)
  - Cumulative Security Update (pour versions LTS et CD)
- Incrément :
  - De 1 pour les CSU
  - de 5 en 5 pour les fixes classiques
- Exemples :
  - 9.3.0.10 → Fixpack
  - 9.3.0.11 → CSU
- Mise en place en 1 Q 2023

Source : Changes to IBM MQ's maintenance delivery model

<https://www.ibm.com/support/pages/changes-ibm-mqs-maintenance-delivery-model>



# Correctifs / Fixes

MQ 9.3 LTS	Version 9.3.0.4 disponible (02/2023) Fix Pack 9.3.0.5 prévu 2Q 2023	
MQ 9.3 CD	Version 9.3.2 disponible (10/2022) CSU 9.3.1.1	
MQ 9.2 LTS	Version 9.2.0.10 disponible (03/2023) Fix Pack 9.2.0.15 prévu 3Q 2023	
MQ 9.2 CD	Version 9.2.5 disponible (02/2022) CSU 9.2.5.6 pour appliances	<b>EOS 02/2023</b>
MQ 9.1 LTS	Version 9.1.0.13 disponible (01/2023) Fix Pack 9.1.0.15 prévu 2Q 2023	<b>EOS 09/2023</b>
MQ 9.1	Appliances M2001/M2002	<b>EOS 09/2023</b>
MQ 9.0 LTS	Version 9.0.0.13 disponible (02/2023) Plus de Fix Pack prévu	<b>EOS 09/2021</b>
MQ 8.0	Fix Pack 8.0.0.16 disponible (03/2021) Plus de Fix Pack prévu	<b>EOS : 04/2020</b>
WMQ 7.5	Dernier Fix Pack 7.5.0.9 (09/2017)	<b>EOS : 04/2018</b>







# Documentation IBM Offline

## IBM Documentation Offline

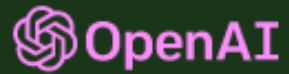
Si vous travaillez dans un environnement privé de tout accès à Internet, utilisez notre application Dark shop.

Téléchargez la documentation pour Windows 

Téléchargement pour un autre système d'exploitation 

<https://demey-consulting.fr/documentation-ibm-offline/>





# ChatGPT, MQ, et Python

LM

écrit moi un programme en python qui dépose des messages en mode client MQ dans le Queue Manager DC101 situé sur le host grim dans la file BOTTLE.  
Dans le pymqi.connect, spécifier le conname.  
Ajoute aussi la demande de compte utilisateur



Voici un exemple de programme Python qui dépose des messages en mode client MQ dans le Queue Manager DC101 situé sur le host grim, avec un listener sur le port 14101, via le canal ADMIN, dans la file BOTTLE:

Copy code

```
import pymqi

queue_manager = "DC101"
host = "grim"
port = "14101"
channel = "ADMIN"
queue_name = "BOTTLE"

user = "username"
password = "password"

conname = host + "(" + port + ")"

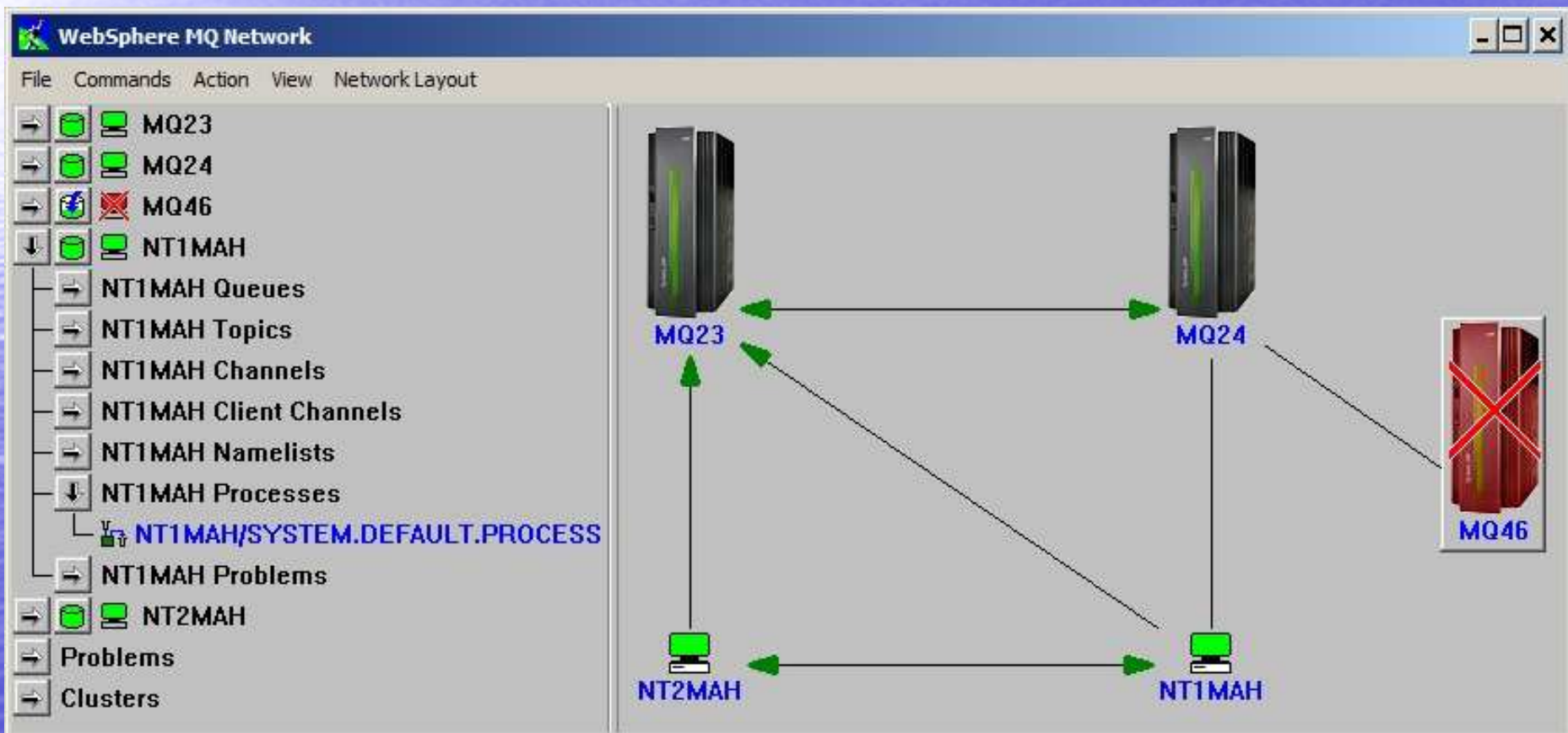
qmgr = pymqi.connect(queue_manager, channel, conname, user, password)
queue = pymqi.Queue(qmgr, queue_name)
```

<https://demey-consulting.fr/chatgpt-mq-et-python/>

# MO71

Initialement : SupportPack IBM - V1 : 1996 / JO Atlanta


MO71 version 9.3.1 - MQGem Software - <https://www.mqgem.com/>







M071
MQSCX
MQEV



**M071**

Our graphical administration tool for IBM MQ, offering a huge range of features to make your day-to-day administration of MQ much easier.

MQSCX
MQEV




```

TYPE (QLOCAL) CURDEPTH(0)
TYPE (QLOCAL) CURDEPTH(0)
TYPE (QLOCAL) CURDEPTH(7)
TYPE (QLOCAL) CURDEPTH(0)
TYPE (QLOCAL) CURDEPTH(0)
TYPE (QLOCAL) CURDEPTH(0)
TYPE (QLOCAL) CURDEPTH(0)
TYPE (QLOCAL) CURDEPTH(0)
TYPE (QLOCAL) CURDEPTH(0)
TYPE (QLOCAL) CURDEPTH(0)
ched:9

ARCHSZ(0) CHINIT(RUNTI
INSTNAME(913GA) INSTPATH(E:\
LOGPATH(E:\mqdata\log\MQG1\acti
REUSESZ(0) STANDBY(NOPER
    
```



Our command line MQSC tool with a powerful scripting language, and an amazing interactive experience. Once you've tried MQSCX, you won't want to go back to RUNMQSC!





# IBM MQ & Ansible

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

## MQ-Ansible

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

A collection for automating the installation and configuration of IBM MQ using Ansible on Ubuntu 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.

For a detailed explanation and documentation on how MQ-Ansible works, click [here](#).

### Requirements

- `ansible`, `passlib` and `ansible-lint` are required on your local machine to run playbooks implementing this collection.
- An Ubuntu target machine is required to run MQ.

*Ansible installation* ([Installation guide](#))


### Playbooks and Roles for IBM MQ installation

The playbooks and roles in this collection carryout an installation of IBM MQ Advanced on an Ubuntu target machine. The roles have been implemented to set up the required users on the machine, download the software, install and configure IBM MQ, copy over a configurable `dev-config.mqsc` file ready to be run on the target machine, and setup and start the web console. Developers can change this file to customise the configuration of their queue managers. Here we use a playbook that calls other playbooks but you can run the roles in playbooks to suit your requirements.

### Packages

No packages published

### Contributors 7



### Languages

• Python 100.0%



# Vulnérabilités

<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ibm+mq>

Name	Description
<a href="#">CVE-2023-26284</a>	IBM MQ Certified Container 9.3.0.1 through 9.3.0.3 and 9.3.1.0 through 9.3.1.1 could allow authenticated users with the cluster to be granted administration access to the MQ console due to improper access controls. IBM X-Force ID: 248417.
<a href="#">CVE-2022-43902</a>	IBM MQ 9.2 CD, 9.2 LTS, 9.3 CD, and 9.3 LTS is vulnerable to a denial of service attack caused by specially crafted PCF or MQSC messages. IBM X-Force ID: 240832.
<a href="#">CVE-2022-42436</a>	IBM MQ 8.0.0, 9.0.0, 9.1.0, 9.2.0, 9.3.0 Managed File Transfer could allow a local user to obtain sensitive information from diagnostic files. IBM X-Force ID: 238206.
<a href="#">CVE-2022-40237</a>	IBM MQ for HPE NonStop 8.1.0 is vulnerable to a denial of service attack due to an error within the CCDT and channel synchronization logic. IBM X-Force ID: 235727.
<a href="#">CVE-2022-40230</a>	"IBM MQ Appliance 9.2 CD, 9.2 LTS, 9.3 CD, and LTS 9.3 does not invalidate session after logout which could allow an authenticated user to impersonate another user on the system. IBM X-Force ID: 235532."
<a href="#">CVE-2022-35719</a>	IBM MQ Internet Pass-Thru 2.1, 9.2 LTS and 9.2 CD stores potentially sensitive information in trace files that could be read by a local user.
<a href="#">CVE-2022-31772</a>	IBM MQ 8.0, 9.0 LTS, 9.1 CD, 9.1 LTS, 9.2 CD, and 9.2 LTS could allow an authenticated and authorized user to cause a denial of service to channels. IBM X-Force ID: 228335.
<a href="#">CVE-2022-22489</a>	IBM MQ 8.0, (9.0, 9.1, 9.2 LTS), and (9.1 and 9.2 CD) are vulnerable to an XML External Entity Injection (XXE) attack when processing XML data. A remote attacker could exploit this vulnerability to expose sensitive information or consume memory resources. IBM X-Force ID: 226339.
<a href="#">CVE-2022-22356</a>	IBM MQ Appliance 9.2 CD and 9.2 LTS could allow an attacker to enumerate account credentials due to an observable discrepancy in valid and invalid login attempts. IBM X-Force ID: 220487.
<a href="#">CVE-2022-22355</a>	IBM MQ Appliance 9.2 CD and 9.2 LTS are vulnerable to a denial of service in the Login component of the application which could allow an attacker to cause a drop in performance.
<a href="#">CVE-2022-22325</a>	IBM MQ (IBM MQ for HPE NonStop 8.1.0) can inadvertently disclose sensitive information under certain circumstances to a local user from a stack trace. IBM X-Force ID: 218853.
<a href="#">CVE-2022-22321</a>	IBM MQ Appliance 9.2 CD and 9.2 LTS local messaging users stored with a password hash that provides insufficient protection. IBM X-Force ID: 218368.
<a href="#">CVE-2022-22316</a>	IBM MQ Appliance 9.2 CD and 9.2 LTS could allow an authenticated and authorized user to cause a denial of service due to incorrectly implemented authorization checks. IBM X-Force ID: 218276.
<a href="#">CVE-2021-39034</a>	IBM MQ 9.1 LTS is vulnerable to a denial of service attack caused by an issue within the channel process. IBM X-Force ID: 213964.
<a href="#">CVE-2021-39000</a>	IBM MQ Appliance 9.2 CD and 9.2 LTS could allow a local attacker to obtain sensitive information by inclusion of sensitive data within diagnostics. IBM X-Force ID: 213215.

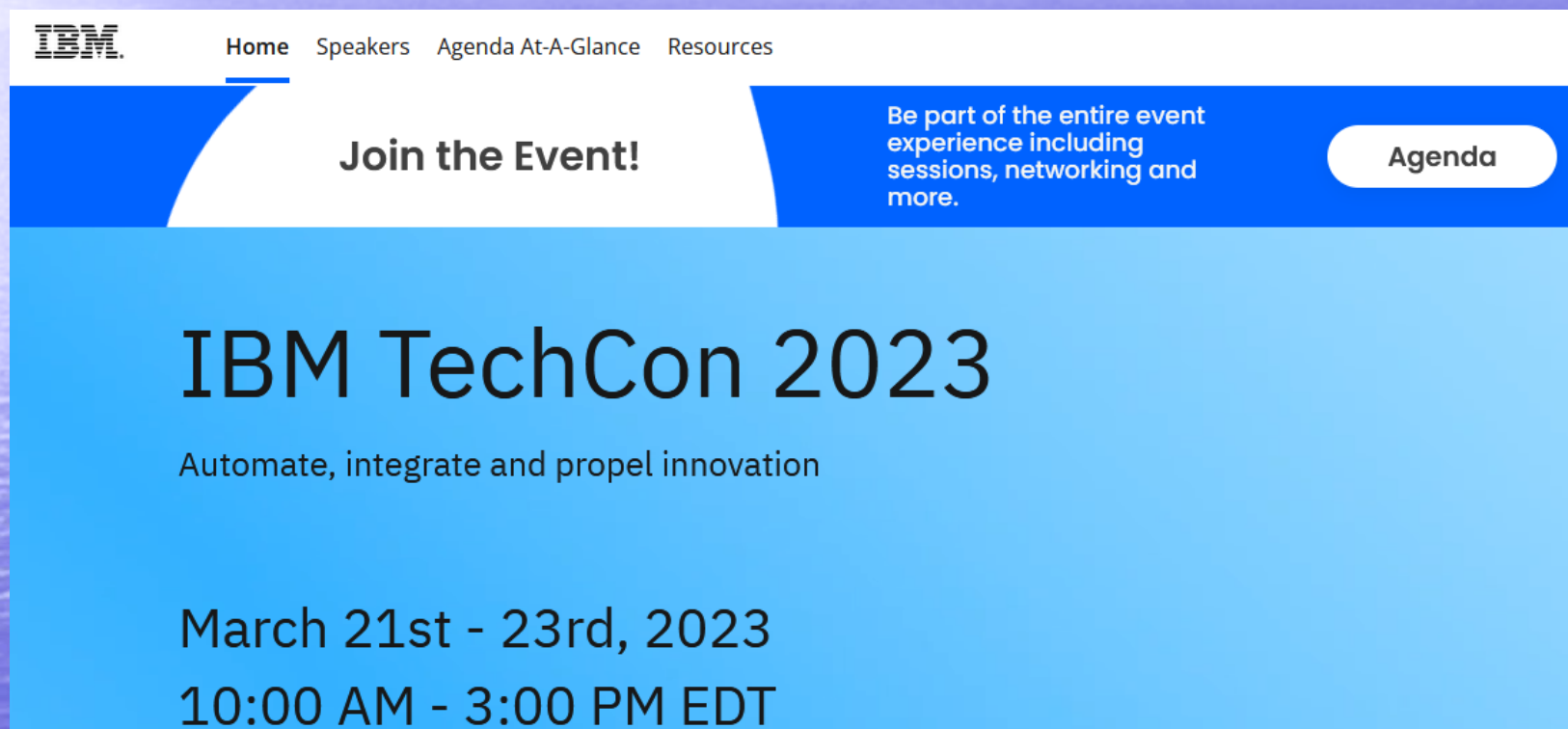
CVSS 7.5

CVSS 8.2

CVSS 5.3



# IBM TechCon 2023



The screenshot shows the top section of the IBM TechCon 2023 website. At the top left is the IBM logo. To its right is a navigation menu with links for Home, Speakers, Agenda At-A-Glance, and Resources. Below the navigation is a blue banner with the text "Join the Event!" and "Be part of the entire event experience including sessions, networking and more." A white button labeled "Agenda" is positioned on the right side of the banner. Below the banner is a large light blue section with the heading "IBM TechCon 2023" and the tagline "Automate, integrate and propel innovation". The dates "March 21st - 23rd, 2023" and the time "10:00 AM - 3:00 PM EDT" are displayed below the tagline.

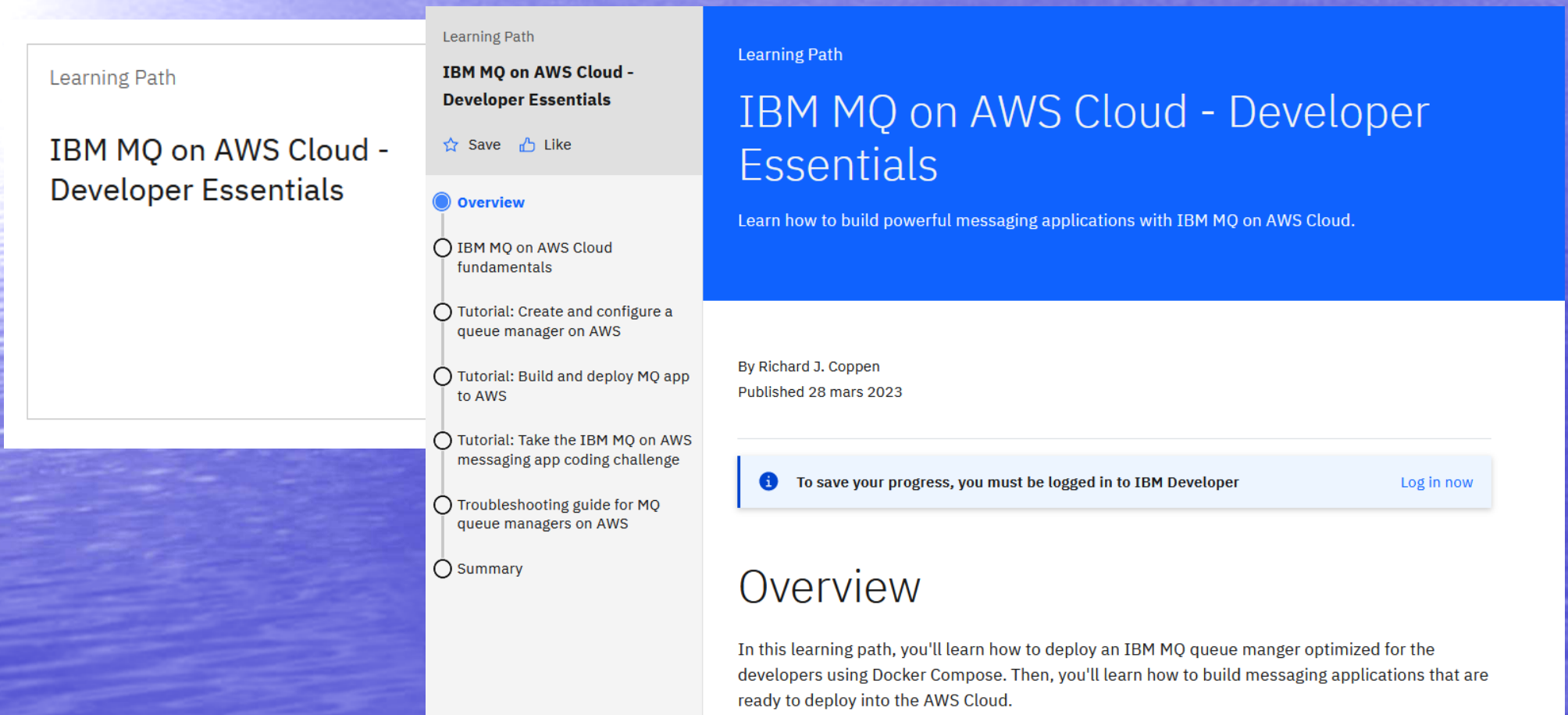
<https://bzb.tools.ibm.com/TechCon2023>





# IBM MQ Learning Paths

- <https://developer.ibm.com/components/ibm-mq/learningpaths/>



The screenshot displays the IBM MQ on AWS Cloud - Developer Essentials learning path page. The page is divided into several sections:

- Learning Path:** The main title is "IBM MQ on AWS Cloud - Developer Essentials". Below the title, there are options to "Save" (indicated by a star icon) and "Like" (indicated by a thumbs-up icon).
- Overview:** A vertical list of topics is shown, with "Overview" selected and highlighted in blue. The topics include:
  - IBM MQ on AWS Cloud fundamentals
  - Tutorial: Create and configure a queue manager on AWS
  - Tutorial: Build and deploy MQ app to AWS
  - Tutorial: Take the IBM MQ on AWS messaging app coding challenge
  - Troubleshooting guide for MQ queue managers on AWS
  - Summary
- Learning Path Description:** A blue banner contains the text "IBM MQ on AWS Cloud - Developer Essentials" and "Learn how to build powerful messaging applications with IBM MQ on AWS Cloud."
- Author and Date:** The page is authored by "Richard J. Coppen" and was published on "28 mars 2023".
- Notification:** A light blue box with an information icon (i) states: "To save your progress, you must be logged in to IBM Developer" with a "Log in now" link.
- Overview Text:** The "Overview" section begins with the text: "In this learning path, you'll learn how to deploy an IBM MQ queue manger optimized for the developers using Docker Compose. Then, you'll learn how to build messaging applications that are ready to deploy into the AWS Cloud."



# IBM Integration Community

<https://community.ibm.com/community/user/integration/>

Titre	Auteur	MàJ
<b>MQ Ansible Live Technical Q&amp;A</b>	<b>Gabriel Marte Blanco</b>	<b>31/03/2023</b>
<b>MQ for z/OS Streaming queue accounting data added</b>	<b>Johnny Murphy</b>	<b>27/02/2023</b>
<b>IBM MQ Appliance DR between HA groups in 9.3.2</b>	<b>Jamie Squibb</b>	<b>16/02/2023</b>
<b>Things To Avoid When Modernizing Your IBM MQ Environment</b>	<b>Gabriel Marte Blanco</b>	<b>16/02/2023</b>
<b>Using MQ Feature - Trace Route Messaging</b>	<b>Morag Hughson</b>	<b>17/01/2023</b>
<b>Testing MQ With Jmeter</b>	<b>PAUL HARRIS</b>	<b>28/11/2022</b>
<b>Authenticating to IBM MQ using TLS certificates</b>	<b>Arthur Barr</b>	<b>24/11/2022</b>
<b>What's new in MQ for z/OS 9.3.1 - SMF Queue statistics enhancements</b>	<b>Ed Borrmann</b>	<b>11/11/2022</b>



# Prochaines réunions - Planning 2023

- Septembre ou Octobre 2023
- Mode Hybride
- Participation du lab IBM ?





Merci pour votre participation !