

MQ SERVER INSTALLATION

Required Libraries and Packages

Install the following essential libraries and tools:

Update the package index first:

```
$sudo yum update -y
```

Install required dependencies:

```
$sudo yum install gcc gcc-c++ libstdc++ glibc compat-libstdc++ libgcc libaio
```

These packages ensure the proper functioning of IBM MQ on CentOS.

If you plan to use Java-based features (e.g., JMS or web console), install a supported Java

Runtime Environment (JRE):

```
$sudo yum install java-1.8.0-openjdk
```

Firewall:

Stop the Firewall Service Immediately

```
$sudo systemctl stop firewalld
```

Disable the Firewall Service at Boot

```
$sudo systemctl disable firewalld
```

Mask the Firewall Service (Optional) Masking prevents the service from being started manually or by other services:

```
$sudo systemctl mask firewalld
```

Verify the Firewall is Disabled

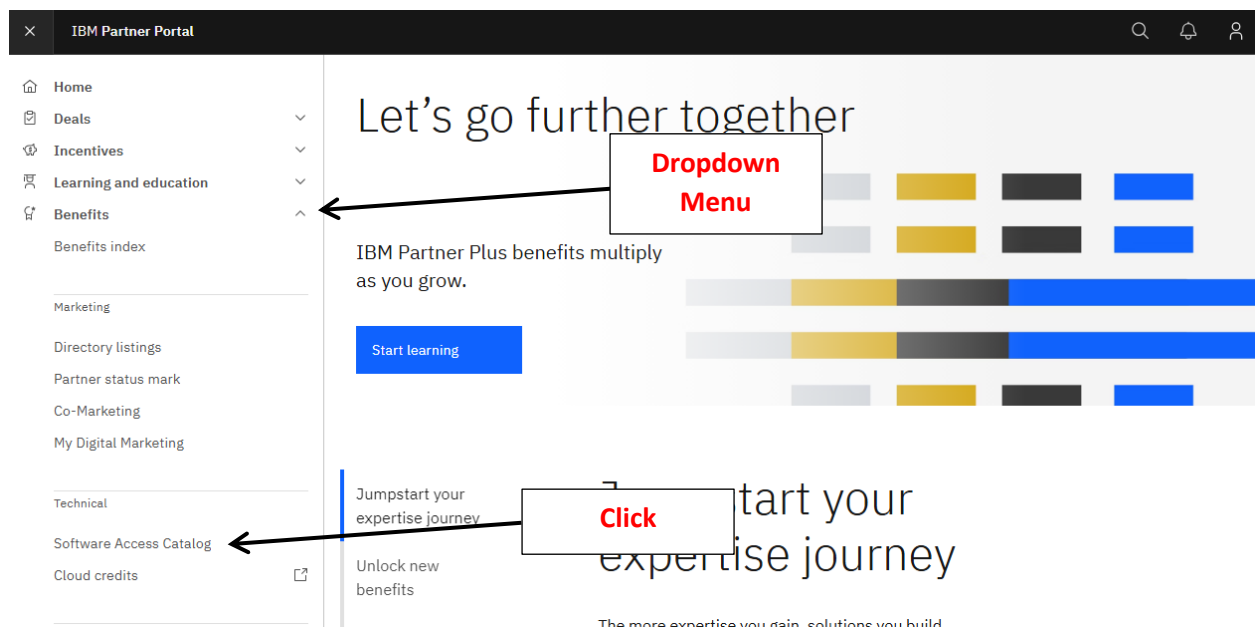
Check the status:

```
$sudo systemctl status firewalld
```

Ensure it is not active or enabled at boot.

Step 1: Access the IBM Partner Plus Software Catalog

1. Navigate to the [IBM Partner Plus](#) website.
2. Log in to your account using your credentials.
3. After logging in, locate and click on the Benefits tab.
4. Under the Benefits section, select Technical.
5. Click on Software Access Catalog to proceed.



Step 2: Search for and Download the Software Package

After proceeding to the Software Access Catalog, you have two options to find the desired package:

1. By Package Name:

1. Enter the package name in the text box provided.
2. Select the HTTP option.
3. Click on Search to locate the package.

Overview

Search options

Your previous searches

Related Links

Software Access Catalog downloads

Overview

IBM's Software Access Catalog allows you to download IBM software products at no charge. The products downloaded may only be used for learning, development, testing, and proof of concept activities.

Note that some products require a license. For more details, see the "Related links" list on the left.

Notice: QRadar 7.3.1 contains an operating system upgrade. This upgrade has been found to cause occasional spontaneous reboots on some M5 hardware. Please see APAR IJ02902 for more detail. Additional information can also be found in this [Flash](#).

Select**Insert Package
Name**

Search options

Text

Brand

Part number

Find by text

Product name

IBM Sterling Connect:Direct V6.4 Multiplatform English eAssembly

Type all or part of a product name and click Search or click one of the suggestions. You can select additional filters below.

Show filter options

☐ No

Download method ⓘ

☐ Download Director☒ HTTP**Select****Click**

Search

2. By Part Number:

1. Enter the part number in the text box provided.
2. Select the HTTP option.
3. Click on Search to locate the package.

Overview

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Select**Insert Package
Number**

Search options

Text

Brand

Part number

Find by part number

Part numbers

Enter single or multiple part numbers (separated by commas) and

47EHML

Download method ⓘ

☒ Download Director☐ HTTP**Select**

Search

Click

3. Once the package appears in the search results:

1. Select the package you want to install.
2. Scroll down and review the license agreement.
3. Select Agree and click on Download Now.

4. The download will begin immediately.

Step 3: Download the File Using wget in CentOS

1. Once the file starts downloading, go to your browser's download history.
2. Locate the file and copy its download link by:
 - Left-click on the pin icon.

Selecting Copy Link or a similar option depending on your browser

1. Open a terminal in CentOS and navigate to the desired directory where you want to download the file.
2. Use the **wget** command with the copied **URL** to download the file. For example:

```
$ wget URL
```

3. The file will be downloaded to your CentOS system.

```
[MQ@work MQ]$ wget https://ak-dsw-mul.dhe.ibm.com/sdfl/v2/fulfill/M0987ML/Xa.2/Xb.118YenSwxyESvd6Ijiosxycj0aKqtis1CBabA10/Xc.M0987ML/IBM MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz/Xd./Xf.lPr.D1VK/Xg.13159156/Xi./Xj.sm/XZ.WDhwB7X6inV7im56zoLyUw6CCLVvZ/IBM MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz
--2025-01-02 02:20:55-- https://ak-dsw-mul.dhe.ibm.com/sdfl/v2/fulfill/M0987ML/Xa.2/Xb.118YenSwxyESvd6Ijiosxycj0aKqtis1CBabA10/Xc.M0987ML/IBM MQ_9.2.0.7_UBUNTU_IBM_Z.tar.g
z/Xd./Xf.lPr.D1VK/Xg.13159156/Xi./Xj.sm/XZ.WDhwB7X6inV7im56zoLyUw6CCLVvZ/IBM MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz
Resolving ak-dsw-mul.dhe.ibm.com (ak-dsw-mul.dhe.ibm.com)... 170.225.119.173
Connecting to ak-dsw-mul.dhe.ibm.com (ak-dsw-mul.dhe.ibm.com)|170.225.119.173|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 802948095 (766M) [application/octet-stream]
Saving to: 'IBM MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz'

IBM MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz      100%[=====] 765.75M  9.61MB/s   in 3m 2s

2025-01-02 02:24:00 (4.20 MB/s) - 'IBM MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz' saved [802948095/802948095]

[MQ@work MQ]$ ls
IBM MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz
[MQ@work MQ]$
```

Step 4: Extract the Downloaded File

1. Verify the file is present in your directory by using the ls command:

```
$ ls
```

2. Extract the .tar file using the following command:

```
$ tar-xvf <file name>
```

3. The contents of the file will be unpacked into the current directory. You can confirm the extraction by listing the files again:

```
$ ls
```

4. You are now ready to proceed with the installation or setup of the extracted files.

```
[MQ@work MQ]$ ls
IBM_MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz
[MQ@work MQ]$ tar -xvf IBM_MQ_9.2.0.7_UBUNTU_IBM_Z.tar.gz
MQServer/
MQServer/mqlicense.sh
```

```
[root@work MQ]# ls
9.4.0.5-IBM-MQ-LinuxX64.tar.gz  MQServer
[root@work MQ]# cd MQServer/
[root@work MQServer]# ls
Advanced                               MQSeriesMsg_es-9.4.0-5.x86_64.rpm
copyright                             MQSeriesMsg_fr-9.4.0-5.x86_64.rpm
crtmqpkg                             MQSeriesMsg_hu-9.4.0-5.x86_64.rpm
IBM-MQ.repo                          MQSeriesMsg_it-9.4.0-5.x86_64.rpm
lap                                  MQSeriesMsg_ja-9.4.0-5.x86_64.rpm
licenses                             MQSeriesMsg_ko-9.4.0-5.x86_64.rpm
mqlicense.sh                         MQSeriesMsg_pl-9.4.0-5.x86_64.rpm
MQSeriesAMQP-9.4.0-5.x86_64.rpm      MQSeriesMsg_pt-9.4.0-5.x86_64.rpm
MQSeriesAMS-9.4.0-5.x86_64.rpm       MQSeriesMsg_ru-9.4.0-5.x86_64.rpm
MQSeriesClient-9.4.0-5.x86_64.rpm    MQSeriesMsg_Zh_CN-9.4.0-5.x86_64.rpm
MQSeriesFTAgent-9.4.0-5.x86_64.rpm  MQSeriesMsg_Zh_TW-9.4.0-5.x86_64.rpm
MQSeriesFTBase-9.4.0-5.x86_64.rpm    MQSeriesRuntime-9.4.0-5.x86_64.rpm
MQSeriesFTLogger-9.4.0-5.x86_64.rpm  MQSeriesSamples-9.4.0-5.x86_64.rpm
MQSeriesFTService-9.4.0-5.x86_64.rpm MQSeriesSDK-9.4.0-5.x86_64.rpm
MQSeriesFTTools-9.4.0-5.x86_64.rpm  MQSeriesServer-9.4.0-5.x86_64.rpm
MQSeriesGSKit-9.4.0-5.x86_64.rpm     MQSeriesWeb-9.4.0-5.x86_64.rpm
MQSeriesJava-9.4.0-5.x86_64.rpm      MQSeriesXRService-9.4.0-5.x86_64.rpm
MQSeriesJRE-9.4.0-5.x86_64.rpm       README
MQSeriesMan-9.4.0-5.x86_64.rpm       repack
MQSeriesMsg_cs-9.4.0-5.x86_64.rpm    repodata
MQSeriesMsg_de-9.4.0-5.x86_64.rpm
```

Step 5: Install Additional Required Components

Install the following RPMs in the given order to ensure proper functionality:

2.1 Install IBM MQ GSKit (Global Security Kit):

```
$sudo rpm -ivh MQSeriesGSKit-9.4.0-5.x86_64.rpm
```

2.2 Install IBM MQ SDK (Optional for Developers):

```
$sudo rpm -ivh MQSeriesSDK-9.4.0-5.x86_64.rpm
```

2.3 Install IBM MQ Java and JRE Support:

```
$sudo rpm -ivh MQSeriesJava-9.4.0-5.x86_64.rpm
```

```
$sudo rpm -ivh MQSeriesJRE-9.4.0-5.x86_64.rpm
```

2.4 Install IBM MQ Server:

```
$sudo rpm -ivh MQSeriesServer-9.4.0-5.x86_64.rpm
```

Step 6: Accept the License Agreement

Before using IBM MQ, you must accept the license agreement.

1. Run the license script:
2. `$/opt/mqm/bin/mqlicense -accept`
3. Follow the prompts to accept the license agreement.

Step 7: Verify Installation

After installation, verify that all components are installed correctly.

1. Check the list of installed packages:
2. `$rpm -qa | grep MQSeries`
3. Verify the installation log for warnings or errors:
4. `$cat /tmp/mqconfig.*.log`

Step 8: Configure IBM MQ

5.1 Create the MQM User and Group (Automatically Created):

During installation, the mqm group and user are created. Confirm with:

```
id mqm
```

5.2 Create a Queue Manager:

```
/opt/mqm/bin/crtmqm QM1
```

This creates a queue manager named QM1.

5.3 Start the Queue Manager:

```
/opt/mqm/bin/strmqm QM1
```

5.4 Verify the Queue Manager:

```
/opt/mqm/bin/dspmq
```

You should see the queue manager QM1 in a running state.

References

- [IBM MQ Documentation](#)
- [IBM MQ Code Signatures](#)

For additional support, consult the official IBM MQ documentation or contact IBM support.