

Is it possible to disable IPV6 calls in TCP within IBM MQ and only use IPV4 calls?

<https://www.ibm.com/support/pages/node/6980507>

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+++ Question +++

Is it possible to disable IPV6 calls in TCP within IBM MQ?

+++ Answer +++

The default behavior with IBM MQ is to try to use IPV6 calls (Internet Protocol Version 6), and if there are timeouts, then the IPV4 calls will be tried next.

But if only IPV4 is available in TCP of a network, then the attempts to use IPV6 will always fail and will cause unnecessary delays, and therefore, it is best to skip the attempts for using IPV6 and always use IPV4.

To always use IPV4 and not use IPV6, you can use the following environment variable:

<https://www.ibm.com/docs/en/ibm-mq/9.3?topic=reference-environment-variables>

IBM MQ / 9.3

Environment variables

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#### **AMQ\_NO\_IPV6**

This environment variable is effective when set to any value.

When this environment variable is set, it disables the use of IPv6 while attempting a connection.

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The following is recommended for clarity:

```
export AMQ_NO_IPV6=TRUE
```

The recommended location to enable this variable is in both hosts:

- The host of the MQ queue manager and
- The host of the MQ client application.

When this environment variable is used, then the OS calls for TCP to resolve the Hostname will skip to AF\_INET6 getaddrinfo call, when dealing with the MQ Listener and MQ channels.

This environment variable does not have effect on those MQ channels that are currently running at the time that this environment variable is set.

The MQ Client applications and/or the MQ queue manager will need to be restarted in order for this variable to take into effect.

+++ end +++