GENERAL SETTINGS

ms tcp nodelay

Description: Disables nagle's algorithm on messenger tcp sessions.

Type: Boolean Required: No Default: true

ms initial backoff

Description: The initial time to wait before reconnecting on a fault.

Type: Double
Required: No
Default: .2

ms max backoff

Description: The maximum time to wait before reconnecting on a fault.

Type: Double Required: No Default: 15.0

ms nocrc

Description: Disables crc on network messages. May increase performance if cpu limited.

Type: Boolean
Required: No
Default: false

ms die on bad msg

Description: Debug option; do not configure.

Type: Boolean Required: No Default: false

ms dispatch throttle bytes

Description: Throttles total size of messages waiting to be dispatched.

Type: 64-bit Unsigned Integer

Required: No Default: 100 << 20

ms bind ipv6

Description: Enable if you want your daemons to bind to IPv6 address instead of IPv4 ones. (Not required if you

specify a daemon or cluster IP.)

Type: Boolean Required: No Default: false

ms rwthread stack bytes

Description: Debug option for stack size; do not configure.

Type: 64-bit Unsigned Integer

Required: No

Default: 1024 << 10

ms tcp read timeout

Description: Controls how long (in seconds) the messenger will wait before closing an idle connection.

Type: 64-bit Unsigned Integer

Required: No Default: 900

ms inject socket failures

Description: Debug option; do not configure.

Type: 64-bit Unsigned Integer

Required: No Default: 0

ASYNC MESSENGER OPTIONS

ms async transport type

Description: Transport type used by Async Messenger. Can be posix, dpdk or rdma. Posix uses standard TCP/IP

networking and is default. Other transports may be experimental and support may be limited.

Type: String
Required: No
Default: posix

ms async op threads

Description: Initial number of worker threads used by each Async Messenger instance. Should be at least equal to

highest number of replicas, but you can decrease it if you are low on CPU core count and/or you host a

lot of OSDs on single server.

Type: 64-bit Unsigned Integer

Required: No Default: 3

ms async max op threads

Description: Maximum number of worker threads used by each Async Messenger instance. Set to lower values when

your machine has limited CPU count, and increase when your CPUs are underutilized (i. e. one or more

of CPUs are constantly on 100% load during I/O operations).

Type: 64-bit Unsigned Integer

Required: No Default: 5

ms async set affinity

Description: Set to true to bind Async Messenger workers to particular CPU cores.

Type: Boolean
Required: No
Default: true

ms async affinity cores

Description: When ms async set affinity is true, this string specifies how Async Messenger workers are bound to

CPU cores. For example, "0,2" will bind workers #1 and #2 to CPU cores #0 and #2, respectively.

NOTE: when manually setting affinity, make sure to not assign workers to processors that are virtual

CPUs created as an effect of Hyperthreading or similar technology, because they are slower than

regular CPU cores.

Type: String
Required: No
Default: (empty)

ms async send inline

Description: Send messages directly from the thread that generated them instead of queuing and sending from

Async Messenger thread. This option is known to decrease performance on systems with a lot of CPU

cores, so it's disabled by default.

Type: Boolean Required: No Default: false