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# Configuring Auto-Eviction

Auto-Eviction enhances cluster stability by automatically removing non-responsive or "unhealthy" [nodes](#) in MariaDB Galera Cluster. This prevents a single problematic node from degrading the entire cluster's [performance](#). In a Galera Cluster, each node monitors the network response times of other nodes. If a node becomes unresponsive due to reasons like memory swapping, network congestion, or a hung process, it can delay and potentially disrupt cluster operations. Auto-Eviction provides a deterministic method to isolate these misbehaving nodes effectively.

## Auto-Eviction Process

The Auto-Eviction process is based on a consensus mechanism among the healthy cluster members.

1. Monitoring and Delay List: Each node in the cluster monitors the [group communication](#) response times from all its peers. If a given node fails to respond within the expected timeframes, the other nodes will add an entry for it to their internal "delayed list."
2. Eviction Trigger: If a [majority](#) of the cluster nodes independently add the same peer to their delayed lists, it triggers the Auto-Eviction protocol.
3. Eviction: The cluster evicts the unresponsive node, removing it from the [cluster membership](#). The evicted node will enter a non-primary state and must be restarted to [rejoin the cluster](#).

The sensitivity of this process is determined by the `evs.auto_evict` parameter.

# Configuration

Auto-Eviction is configured by passing the `evs.auto_evict` [parameter](#) within the `wsrep_provider_options` [system variable](#) in your MariaDB configuration file (`my.cnf`).

The value of `evs.auto_evict` determines the threshold for eviction. It defines how many times a peer can be placed on the delayed list before the node votes to evict it.

```
[mariadb]
...
wsrep_provider_options = "evs.auto_evict=5"
```

In the above example, if a node registers that a peer has been delayed 5 times, it will vote to have that peer evicted from the cluster.

To disable Auto-Eviction, you can set the value to `0`:

```
wsrep_provider_options = "evs.auto_evict=0"
```

Even when disabled, the node will continue to monitor response times and log information about delayed peers; it just won't vote to evict them.

## Related Parameters for Failure Detection

The Auto-Eviction feature is directly related to the [EVS \(Extended Virtual Synchrony\) protocol parameters](#) that control how the cluster detects unresponsive nodes in the first place. These parameters define what it means for a node to be "delayed."

Parameter	Description
<a href="#"><u>evs.inactive_check_period</u></a>	Frequency of node checking for inactive peers.
<a href="#"><u>evs.suspect_timeout</u></a>	Time duration after which a non-responsive node is marked as "suspect."
<a href="#"><u>evs.inactive_timeout</u></a>	Time duration after which a non-responsive node is marked as "inactive" and removed.

Tuning these values in conjunction with `evs.auto_evict` allows you to define how aggressively the cluster will fence off struggling nodes.

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