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Configuring the InnoDB memcached Plugin

Traditional `memcached` configuration options may be specified in a MySQL configuration file or a `mysqld` startup string, encoded in the argument of the `daemon_memcached_option` configuration parameter. `memcached` configuration options take effect when the plugin is loaded, which occurs each time the MySQL server is started.

For example, to make `memcached` listen on port 11222 instead of the default port 11211, specify `-p11222` as an argument of the `daemon_memcached_option` configuration option:

```
mysqld .... --daemon_memcached_option="-p11222"
```

Other `memcached` options can be encoded in the `daemon_memcached_option` string. For example, you can specify options to reduce the maximum number of simultaneous connections, change the maximum memory size for a key-value pair, or enable debugging messages for the error log, and so on.

There are also configuration options specific to the `daemon_memcached` plugin. These include:

- `daemon_memcached_engine_lib_name`: Specifies the shared library that implements the InnoDB `memcached` plugin. The default setting is `innodb_engine.so`.
- `daemon_memcached_engine_lib_path`: The path of the directory containing the shared library that implements the InnoDB `memcached` plugin. The default is NULL, representing the plugin directory.
- `daemon_memcached_r_batch_size`: Defines the batch commit size for read operations (`get`). It specifies the number of `memcached` read operations after which a `commit` occurs. `daemon_memcached_r_batch_size` is set to 1 by default so that every `get` request accesses the most recently committed data in the InnoDB table, whether the data was updated through `memcached` or by SQL. When the value is greater than 1, the counter for read operations is incremented with each `get` call. A `flush_all` call resets both read and write counters.
- `daemon_memcached_w_batch_size`: Defines the batch commit size for write operations (`set`, `replace`, `append`, `prepend`, `incr`, `decr`, and so on). `daemon_memcached_w_batch_size` is set to 1 by default so that no uncommitted data is lost in case of an outage, and so that SQL queries on the underlying table access the most recent data. When the value is greater than 1, the counter for write operations is incremented for each `add`, `set`, `incr`, `decr`, and `delete` call. A `flush_all` call resets both read and write counters.

By default, you do not need to modify `daemon_memcached_engine_lib_name` or `daemon_memcached_engine_lib_path`. You might configure these options if, for example, you want to use a different storage engine for `memcached` (such as the NDB `memcached` engine).

`daemon_memcached` plugin configuration parameters may be specified in the MySQL configuration file or in a `mysqld` startup string. They take effect when you load the `daemon_memcached` plugin.

When making changes to `daemon_memcached` plugin configuration, reload the plugin to apply the changes. To do so, issue the following statements:

```
mysql> UNINSTALL PLUGIN daemon_memcached;

mysql> INSTALL PLUGIN daemon_memcached soname "libmemcached.so";
```

Configuration settings, required tables, and data are preserved when the plugin is restarted.

For additional information about enabling and disabling plugins, see [Section 5.6.1, “Installing and Uninstalling Plugins”](#).