

Building and Enabling SASL with the InnoDB memcached Plugin

By default, an SASL-enabled `daemon_memcached` plugin is not included in MySQL release packages, since an SASL-enabled `daemon_memcached` plugin requires building `memcached` with SASL libraries. To enable SASL support, download the MySQL source and rebuild the `daemon_memcached` plugin after downloading the SASL libraries:

1. Install the SASL development and utility libraries. For example, on Ubuntu, use `apt-get` to obtain the libraries:

```
sudo apt-get -f install libsasl2-2 sasl2-bin libsasl2-2 libsasl2-dev libsasl2-modules
```

2. Build the `daemon_memcached` plugin shared libraries with SASL capability by adding `ENABLE_MEMCACHED_SASL=1` to your `cmake` options. `memcached` also provides *simple cleartext password support*, which facilitates testing. To enable simple cleartext password support, specify the `ENABLE_MEMCACHED_SASL_PWDB=1` `cmake` option.

In summary, add following three `cmake` options:

```
cmake ... -DWITH_INNODB_MEMCACHED=1 -DENABLE_MEMCACHED_SASL=1 -DENABLE_MEMCACHED_SASL_PWDB=1
```

3. Install the `daemon_memcached` plugin, as described in [Section 15.20.3, “Setting Up the InnoDB memcached Plugin”](#).
4. Configure a user name and password file. (This example uses `memcached` simple cleartext password support.)
 - a. In a file, create a user named `testname` and define the password as `testpasswd`:

```
echo "testname:testpasswd:::::::::" >/home/jy/memcached-sasl-db
```

- b. Configure the `MEMCACHED_SASL_PWDB` environment variable to inform `memcached` of the user name and password file:

```
export MEMCACHED_SASL_PWDB=/home/jy/memcached-sasl-db
```

- c. Inform `memcached` that a cleartext password is used:

```
echo "mech_list: plain" > /home/jy/work2/msasl/clients/memcached.conf
export SASL_CONF_PATH=/home/jy/work2/msasl/clients
```

5. Enable SASL by restarting the MySQL server with the `memcached -S` option encoded in the `daemon_memcached_option` configuration parameter:

```
mysqld ... --daemon_memcached_option="-S"
```

6. To test the setup, use an SASL-enabled client such as [SASL-enabled libmemcached](#).

```
memcp --servers=localhost:11211 --binary --username=testname
--password=password myfile.txt

memcat --servers=localhost:11211 --binary --username=testname
--password=password myfile.txt
```

If you specify an incorrect user name or password, the operation is rejected with a `memcache error AUTHENTICATION FAILURE` message. In this case, examine the cleartext password set in the `memcached-sasl-db` file to verify that the credentials you supplied are correct.