🦋 Driver Authentication

Abstract

MongoDB supports various authentication strategies across various versions. When authentication is turned on in the database, a driver must authenticate before it is allowed to communicate with the server. This spec defines when and how a driver performs authentication with a MongoDB server.

This report is following a specification from the Mongodb website and is shown below.

Mongo credential

Drivers SHOULD contain a type called MongoCredential. In this driver it is called MongoDB::Authenticate::Credential.

```
    use MongoDB::Authenticate::Credential;
    my MongoDB::Authenticate::Credential $cred .= new(
     :username<user>, :password<pencil>,
     :auth-mechanism<SCRAM-SHA-1>
 5. );
    ok $cred.defined, 'T0';
    is $cred.password, "pencil", 'T1';
```

✔   **T0:** Credential is defined. Not all named arguments are used. There are also :source and :mechanism-properties. Btw. the field mechanism is named auth-mechanism because of the name authMechanism used in the url as an option.

✔   **T1:** Data can also be retrieved from it again.

Some combinations of credential parameters should fail

```
    my $x = {
     $cred .= new(
10.   :username<user>, :password<pencil>,
      :auth-mechanism<MONGODB-X509>
     );
    }
    ;
15. dies-ok $x(), 'T2';
```

✪   **T2:** Mechanism MONGODB-X509 does not expect a password

Credential parameters are set using uri
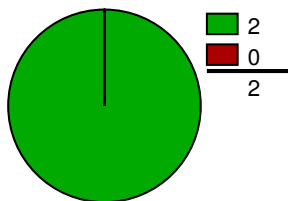
```
      use lib 't';
      use Test-support;
      use MongoDB::Client;
      my MongoDB::Test-support $ts .= new;
20.   my Int $p1 = $ts.server-control.get-port-number('s1');
      my MongoDB::Client $client .= new(:uri("mongodb://localhost:$p1"));
      ok $client.defined, 'T3';
```

T3: Returned client object is defined, even when the uri is not pointing to an existing mongod server.

Normal tests	Bug issues	Todo tests	Summary

Normal tests
- 2
- 0
- 2

Bug issues
- 0
- 0
- 0

Todo tests
- 0
- 0
- 0

Summary
- 2 ok
- 0 Tests
- 0 Bugs
- 0 Todo
- 0 Skip
- 2 Total