

NAME

Authen::SASL::Perl::GSSAPI – GSSAPI (Kerberosv5) Authentication class

SYNOPSIS

```
use Authen::SASL qw(Perl);

$sasl = Authen::SASL->new( mechanism => 'GSSAPI' );

$sasl = Authen::SASL->new( mechanism => 'GSSAPI',
                          callback => { pass => $mycred } );

$sasl->client_start( $service, $host );
```

DESCRIPTION

This method implements the client part of the GSSAPI SASL algorithm, as described in RFC 2222 section 7.2.1 resp. draft-ietf-sasl-gssapi-XX.txt.

With a valid Kerberos 5 credentials cache (aka TGT) it allows to connect to *service@host* given as the first two parameters to Authen::SASL's **client_start()** method. Alternatively, a GSSAPI::Cred object can be passed in via the Authen::SASL callback hash using the 'pass' key.

Please note that this module does not currently implement a SASL security layer following authentication. Unless the connection is protected by other means, such as TLS, it will be vulnerable to man-in-the-middle attacks. If security layers are required, then the Authen::SASL::XS GSSAPI module should be used instead.

CALLBACK

The callbacks used are:

authname

The authorization identity to be used in SASL exchange

gssmech

The GSS mechanism to be used in the connection

pass

The GSS credentials to be used in the connection (optional)

EXAMPLE

```
#!/usr/bin/perl -w

use strict;

use Net::LDAP 0.33;
use Authen::SASL 2.10;

# ----- Adjust to your environment -----
my $adhost      = 'theserver.bla.net';
my $ldap_base   = 'dc=bla,dc=net';
my $ldap_filter = '(&(sAMAccountName=BLAAGROL))';

my $sasl = Authen::SASL->new(mechanism => 'GSSAPI');
my $ldap;

eval {
    $ldap = Net::LDAP->new($adhost,
                          onerror => 'die')
      or die "Cannot connect to LDAP host '$adhost': '$@'";
    $ldap->bind(sasl => $sasl);
};
```

```

if ($@) {
    chomp $@;
    die "\nBind error          : $@",
        "\nDetailed SASL error: ", $sasl->error,
        "\nTerminated";
}

print "\nLDAP bind() succeeded, working in authenticated state";

my $mesg = $ldap->search(base => $ldap_base,
                        filter => $ldap_filter);

# ----- evaluate $mesg

```

PROPERTIES

The properties used are:

maxbuf

The maximum buffer size for receiving cipher text

minssf

The minimum SSF value that should be provided by the SASL security layer. The default is 0

maxssf

The maximum SSF value that should be provided by the SASL security layer. The default is 2**31

externalssf

The SSF value provided by an underlying external security layer. The default is 0

ssf The actual SSF value provided by the SASL security layer after the SASL authentication phase has been completed. This value is read-only and set by the implementation after the SASL authentication phase has been completed.

maxout

The maximum plaintext buffer size for sending data to the peer. This value is set by the implementation after the SASL authentication phase has been completed and a SASL security layer is in effect.

SEE ALSO

Authen::SASL, Authen::SASL::Perl

AUTHORS

Written by Simon Wilkinson, with patches and extensions by Achim Grolms and Peter Marschall.

Please report any bugs, or post any suggestions, to the perl-ldap mailing list <perl-ldap@perl.org>

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