

NAME

srptool - GnuTLS SRP tool

SYNOPSIS

srptool [-flags] [-flag *value*] [--option-name[*value*]]

All arguments must be options.

DESCRIPTION

Simple program that emulates the programs in the Stanford SRP (Secure Remote Password) libraries using GnuTLS. It is intended for use in places where you don't expect SRP authentication to be the used for system users.

In brief, to use SRP you need to create two files. These are the password file that holds the users and the verifiers associated with them and the configuration file to hold the group parameters (called tpasswd.conf).

OPTIONS

-d *num*, **--debug**=*num*

Enable debugging. This option takes an integer number as its argument. The value of *num* is constrained to being:

in the range 0 through 9999

Specifies the debug level.

-i *num*, **--index**=*num*

This option takes an integer number as its argument. The default *number* for this option is:

3

-u *str*, **--username**=*str*

-p *str*, **--passwd**=*str*

-s *num*, **--salt**=*num*

This option takes an integer number as its argument.

--verify

Verifies the password provided against the password file.

-v *str*, --passwd-conf=*str*

Specify a filename or a PKCS #11 URL to read the CAs from.

--create-conf=*str*

Generate a password configuration file.

This generates a password configuration file (*tpasswd.conf*) containing the required for TLS parameters.

-v *arg*, --version=*arg*

Output version of program and exit. The default mode is 'v', a simple version. The 'c' mode will print copyright information and 'n' will print the full copyright notice.

-h, --help

Display usage information and exit.

!-, --more-help

Pass the extended usage information through a pager.

EXAMPLES

To create *tpasswd.conf* which holds the *g* and *n* values for SRP protocol (generator and a large prime), run:

```
$ srptool --create-conf /usr/local/etc/tpasswd.conf
```

This command will create */usr/local/etc/tpasswd* and will add user 'test' (you will also be prompted for a password). Verifiers are stored by default in the way *libsrp* expects.

```
$ srptool --passwd /usr/local/etc/tpasswd --passwd-conf /usr/local/etc/tpasswd.conf -u test
```

This command will check against a password. If the password matches the one in */usr/local/etc/tpasswd* you will get an ok.

```
$ srptool --passwd /usr/local/etc/tpasswd --passwd-conf /usr/local/etc/tpasswd.conf --verify -u test
```

EXIT STATUS

One of the following exit values will be returned:

0 (EXIT_SUCCESS)

Successful program execution.

1 (EXIT_FAILURE)

The operation failed or the command syntax was not valid.

SEE ALSO

gnutls-cli-debug (1), gnutls-serv (1), srptool (1), psktool (1), certtool (1)

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BUGS

Please send bug reports to: bugs@gnutls.org