
Name

skogpasswdmancli — CLI for storing, generating and updating passwords and honeypots.

Synopsis

```
skogpasswdmancli -i ---interactive --B ---single-backup --U ---utf-8 infile
```

DESCRIPTION

infile is the file **skogpasswdmancli** will read its commands from, if *infile* is omitted **skogpasswdmancli** will read from standard input. `-i` or `--interactive` must be specified if you want the commands **undo** and **redo**, or if you want **skogpasswdmancli** to stay alive after an error.

If you specify the option `-B` or `--single-backup`, every change that has been done, will be removed by TWO undos.

You can force **skogpasswdmancli** to use "utf-8" as encoding by specifying the option `--utf-8`. WARNING: It hasn't been tested with Python 3.x in a non-UTF-8 environment.

skogpasswdmancli reads its input as colon separated values. Quotes are either forbidden or optional (look at `unquote()` in `skogpasswdmanapi(3)`). Integers are created with the python built-in `int()`. All commands are listed in **COMMANDS**. The first command you really should use is "esc:on". If the line begins with a number-sign, the line will be ignored. If the line begins with a pipe-sign, it will write the rest of the line to standard output.

All outputs that are prefixed with an exclamation mark are error messages. All outputs that are prefixed with a number sign are messages for a human user. All other outputs are prefixed with their command (not their arguments), using dots instead of colons, followed by a question mark.

Beware of whitespace. The whitespace comes after colons and/or question marks and before quotes.

The passwords have meta-data. They have a minimum required length and a maximum allowed length. They also have a type which is one of:

10 The password may only use digits.

64 The password can use big letters, small letters, digits, underscores and exclamation marks.

human The password is human generated.

The "honeypots" are weak passwords intended to be used as traps. It was a poor choice of name, but it grew legs and glued its feet to the ground.

WARNING: If a command accepts a name and index argument, any string of digits will be treated as an index.

COMMANDS

bells	Show message about the bells and whistles.
bugs	Show message about wasps and mosquitoes.
esc:off	Disable really simple escapes for quoted strings.
esc:on	Enable really simple escapes for quoted strings. They are only useful for escaping quotes.
hell	Synonym for verbose:on .

help	Help message.
honeypot:add:'value'	Add a new honeypot with the value <code>value</code> .
honeypot:help	Help message.
honeypot:list	List all honeypots. Returns multiple lines of: "honeypot.list?", the index, a colon and the value surrounded by single quotes.
honeypot:pick	Pick a honeypot. Returns a line of: "honeypot.pick?" followed by the honeypot surrounded by single quotes.
honeypot:pick:n:'sep'	Pick <code>n</code> honeypots and separate them with <code>sep</code> . Returns a line of: "honeypot.pick?" followed by the separator-separated honeypots surrounded by single quotes.
honeypot:pickf:n:'f'	<p>Pick <code>n</code> honey-pots. <code>f</code> is a format string of multiple parts. Each part begins with zero or more whitespace followed by a single character that indicates which option is specified, and ends with an semicolon.</p> <p>They use percent-sign escapes (URL escapes); percent-sign followed by two hexadecimal digits representing the ASCII code.</p> <p>All the option letters are lower case. "p" for pattern, "r" for replacement, "s" for separator, "h" for head and "t" for tail.</p> <p><code>pattern</code> and <code>replacement</code> are regexps. <code>pattern</code> is substituted with <code>replacement</code> in every honeypot.</p> <p>Returns a line of: "honeypot.pickf?" followed by <code>head</code> followed by all the honeypots separated with <code>sep</code> followed by <code>tail</code>.</p> <p>The default values for the options are to backslash escape single quotes and backslashes, and put single quotes around the honeypots and separate them with commas.</p> <p>Example that replaces <code>s</code> with <code>z</code>: "honeypot:pickf:5:ps;rz;"</p>
honeypot:pickl:n	Pick <code>n</code> honey-pots, escape and quote (single quotes). Returns a line of "honeypot.pickl?" followed by the quoted honey-pots separated with commas.
honeypot:remove:'value'	Remove the honeypot with the value <code>value</code> .
honeypot:remove:index	Remove the honeypot at <code>index</code> . WARNING: The indexes of the following honeypots will be decreased by one!
passwd:add:type:minlength:maxlength	Add a new password for <code>name</code> , with at least <code>minlength</code> letters, but no more than <code>maxlength</code> . If <code>type</code> is "10", the password will only contain digits. If <code>type</code> is "64", the password will contain big letters, small letters, digits, underscores and exclamation marks. It will not give any output.
passwd:add_human:'name'	Add a human generated password for <code>name</code> . It will read the password on a new line. It will not give any output.
passwd:get:'name'	Returns a line of: "passwd.get?" followed by the value of the password for <code>name</code> surrounded by single quotes.

<code>passwd:get:index</code>	Returns a line of: "passwd.get?" followed by the value of the password at <code>index</code> surrounded by single quotes.
<code>passwd:help</code>	Help message.
<code>passwd:list</code>	List all passwords. Returns multiple lines of: "passwd.list?", the index, a colon and the name surrounded by single quotes.
<code>passwd:meta:'name'</code>	Get the meta-data for the password for <code>name</code> . Returns a line of: "passwd.meta?", the type surrounded by single quotes, a colon, the minimum length for the password surrounded by single quotes, a colon and the maximum length for the password surrounded by single quotes.
<code>passwd:meta:index</code>	Get the meta-data for the password at <code>index</code> . Returns a line of: "passwd.meta?", the type surrounded by single quotes, a colon, the minimum length for the password surrounded by single quotes, a colon and the maximum length for the password surrounded by single quotes.
<code>passwd:remove:'name'</code>	Remove the password for <code>name</code> .
<code>passwd:remove:index</code>	Remove the password at <code>index</code> . WARNING: The indexes of the following passwords will be decreased by one!
<code>passwd:update:'name'</code>	Update the password for <code>name</code> using its meta-data. Returns a line of: "passwd.update?", the old password, a colon and the new password.
<code>passwd:update:index</code>	Update the password at <code>index</code> using its meta-data. Returns a line of: "passwd.update?", the old password, a colon and the new password.
<code>passwd:update_meta:type:min:max:'name'</code>	Do the same thing as passwd:update:'name' , but use <code>type</code> , <code>min</code> , and <code>max</code> as meta-data, instead of the passwords own (which might not even exist).
<code>passwd:update_meta:type:min:max:index</code>	Do the same thing as passwd:update:index , but use <code>type</code> , <code>min</code> , and <code>max</code> as meta-data, instead of the passwords own (which might not even exist).
<code>pb:on</code>	Enable progress-counters. start is "Number-sign, tab, zero, percent." Progress is "Enough backspaces, integer decimal digits, percent." Stop is "Newline."
<code>pb:off</code>	Disable progress-counters.
<code>redo</code>	Opposite of undo .
<code>undo</code>	CLI undo button; restore from latest auto-generated backup.
<code>verbose:on</code>	Enable verbose mode; release mosquitoes from hell that will be noisy and give you a headache.
<code>verbose:off</code>	Disable verbose mode; kill the mosquitoes.
<code>whistles</code>	Show message about the bells and whistles.

FILES

`~/ .skogpasswdman/passwords` is a XML file containing all passwords.

~/ .skogpasswdman/honeypots is a XML file containing all honeypots.

~/ .skogpasswdman/undoable is a directory full of backups.

~/ .skogpasswdman/redoable is a directory full of backups.

DIAGNOSIS

All error messages are sent to standard output and are prefixed with an exclamation mark.

!syntax error Bad spelling or incorrect usage. The next line of output will be the offending input prefixed with an exclamation mark.

!no meta The command requires meta-data, but the password doesn't have any.

!not found Not found or index out of range

SEE ALSO

skogpasswdmanapi(3), random(4), urandom(4), skogpasswdmanfiles(5)

BUGS

Mosquitoes:

- If verbose mode is enabled the message "#READY" is written too many times.

SECURITY

skogpasswdmancli uses random(4) or urandom(4) for everything.

AUTHOR

Written by Oskar Skog (oskar.skog.finland@gmail.com).

Please send patches, questions, bug reports and wish-lists.