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# **ascii\_graph Documentation**

***Release 0.1.0***

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Cracklib password policy plugin for LdapCherry

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**Doc** [Documentation on ReadTheDoc](#)

**Dev** [Source code on GitHub](#)

**PyPI** [Package on Pypi](#)

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**Author** Pierre-Francois Carpentier - copyright © 2015

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### Install

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From pypi:

```
pip install lcppolicy_cracklib
```

From sources:

```
$ python setup.py install
```





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## Configure

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### 2.1 Enable module

To enable this module, set **ppolicy.module** to **lcppolicy\_cracklib** in section **[ppolicy]** of *ldapcherry.ini*

### 2.2 Parameters

This plugin takes the following parameters in *ldapcherry.ini* (all the parameters are optional):

Parameter	Section	Description	Values	Comment
min_length	ppolicy	Minimum length of password	integer	Default: 0
min_upper	ppolicy	Minimum number of upper case characters	Integer	Default: 0
min_digit	ppolicy	Minimum number of digit characters	Integer	Default: 0
min_lower	ppolicy	Minimum number of lower case characters	Integer	Default: 0
min_other	ppolicy	Minimum number of non alphanumeric characters	Integer	Default: 0
dict_path	ppolicy	Path to dictionary	Path	Default: default cracklib dictionary usually <code>‘/var/cache/cracklib/cracklib_dict’</code> . If pointing, for example, to <code>/path/dict</code> , then <code>/path/dict.hwm</code> , <code>/path/dict.pwd</code> and <code>/path/dict.pwi</code> must exist.

## 2.3 Example

```
[ppolicy]

# password policy module
ppolicy.module = 'lcppolicy_cracklib'
# minimum password length (optional default: 0)
min_length = 10
# minimum number of upper case characters (optional default: 0)
min_upper = 1
# minimum number of lower case characters (optional default: 0)
min_lower = 2
# minimum number of digits (optional default: 0)
min_digit = 1
# minimum number of non alphanumeric characters (optional default: 0)
min_other = 1
# path to dictionary (optional)
dict_path = '/var/cache/cracklib/cracklib_dict'
```

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## Custom dictionary

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To build custom cracklib dictionaries:

- Get one or many word list files (for example here: <http://www.winedt.org/Dict/>).
- If necessary, encode it to UTF-8.
- Generate the cracklib dictionary.

example:

```
# Just create a work directory
$ mkdir dict/
$ cd dict/

# Recover and unzip the word list
$ wget http://www.winedt.org/Dict/unicode/fr.zip
$ unzip fr.zip

# UTF-8 encoding
$ file *
fr.dic: Little-endian UTF-16 Unicode text
fr.txt: ASCII text, with CRLF line terminators
fr.zip: Zip archive data, at least v2.0 to extract
$ iconv -f UTF-16 -t UTF-8 fr.dic >fr2.dic

# Create the dictionary
$ cat fr2.dic | cracklib-packer mydict

# Result
$ ls mydict*
mydict.hwm  mydict.pwd  mydict.pwi
```

**Warning:** Most distributions already provide dictionaries and a cron script to update cracklib dictionary (see `'apt-cache search 'dictionary'| egrep '^w''` and `'/etc/cron.daily/cracklib-runtime'` in Debian/Ubuntu for example)



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## ChangeLogs

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- initial version