
Hash Algorithm Plugin Development

Introduction

The time-memory tradeoff algorithm is general and rainbow table for any hash algorithm is possible.

RainbowCrack software supports some common hash algorithms implemented in `alglib0.dll` (Windows) or `alglib0.so` (Linux). To view the full list, just run `rtgen` program without any parameter.

Typical output:

```
hash algorithms implemented:
  lm HashLen=8 PlaintextLen=0-7
  ntlm HashLen=16 PlaintextLen=0-15
  md5 HashLen=16 PlaintextLen=0-15
  sha1 HashLen=20 PlaintextLen=0-20
  sha256 HashLen=32 PlaintextLen=0-20
  office HashLen=8 PlaintextLen=5-5
```

To generate rainbow table for any hash algorithm not in that list, a hash algorithm plugin need be developed.

Source Code

Example source code available at http://project-rainbowcrack.com/src_alglib.zip

Test

Place the compiled `alglib1.dll` or `alglib1.so` in RainbowCrack's directory.

Then generate some small rainbow tables:

```
rtgen md5 loweralpha 1 7 0 100 100 0
rtgen mymd5 loweralpha 1 7 0 100 100 0
```

The first command generates a rainbow table with built-in MD5 implementation of RainbowCrack software, and the second command generate a rainbow table with the plugin compiled with the source code above.

The two rainbow tables should be binary identical.

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