Attacking Weak Symmetric Ciphers

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1 Introduction

Due to the continuous increasing of computational power, every encryption algorithm will eventually become obsolete. Any algorithm for which a bruteforce attack is computationally feasible, is considered weak, and must not be used. In this article we present an analysis on the bruteforce attack against such an algorithm as DES, for which we provide an implementation and performance results.

DES, first published in 1975 by IBM, has been considered obsolete since 1998, thanks to the EFF DES cracker [1]

2 Resources Used

To test the implementation a 2 GHz Intel Core i5 (dual core, with 4 virtual cores thanks to hyperthreading) with 16 GB of RAM has been used.

References

[1] S. Landau, Standing the test of time: The data encryption standard, Notices of AMS, 2000.