

Cryptanalysis with Cryptool

@mmar

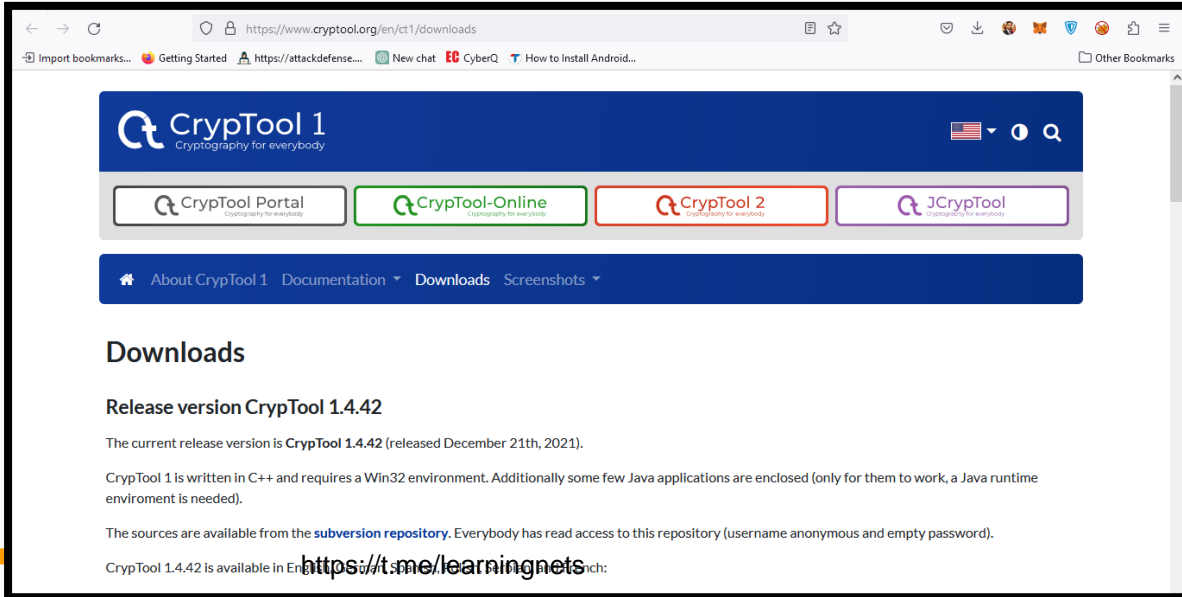


Cryptool

Cryptool

❖ Download and install the tool

<https://www.cryptool.org/en/ct1/downloads>



The screenshot shows a web browser displaying the Cryptool 1 website. The page has a dark blue header with the Cryptool 1 logo and tagline "Cryptography for everybody". Below the header, there are four colored buttons: "Cryptool Portal" (blue), "Cryptool-Online" (green), "Cryptool 2" (red), and "JCrypTool" (purple). A navigation bar below these buttons includes "About Cryptool 1", "Documentation", "Downloads" (highlighted), and "Screenshots". The main content area is titled "Downloads" and contains the following text:

Release version Cryptool 1.4.42

The current release version is **CrypTool 1.4.42** (released December 21th, 2021).

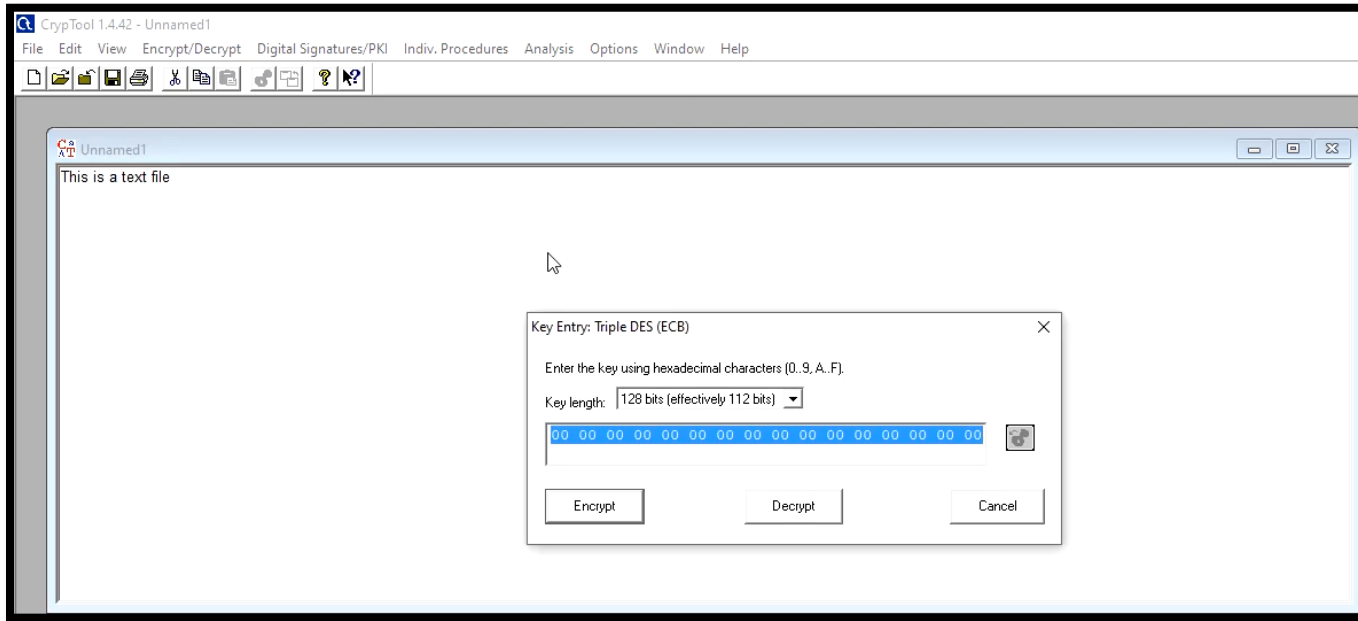
CrypTool 1 is written in C++ and requires a Win32 environment. Additionally some few Java applications are enclosed (only for them to work, a Java runtime environment is needed).

The sources are available from the [subversion repository](#). Everybody has read access to this repository (username anonymous and empty password).

CrypTool 1.4.42 is available in English and German. <https://t.me/learningnets>

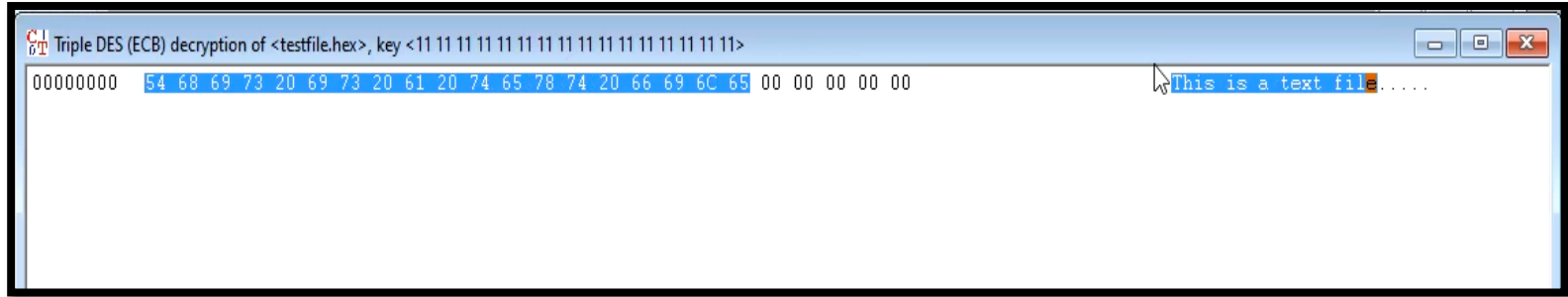
Encryption

- ❖ Create a new file and choose to encrypt it with triple DES



Decryption

- ❖ Open the file and decrypt it providing key



The screenshot shows a Windows command prompt window with the title "Triple DES (ECB) decryption of <testfile.hex>, key <11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11>". The command prompt displays the output of a decryption operation. The first line shows the hexadecimal representation of the decrypted data: "00000000 54 68 69 73 20 69 73 20 61 20 74 65 78 74 20 66 69 6C 65 00 00 00 00 00". A mouse cursor is positioned over the text "This is a text file....." which is displayed in the command prompt window, indicating that the decryption was successful and the resulting text is readable.

DEMO



THANKS