HOMEWORKS

HOMEWORK#2 (HW2)

- · Title: "Practicing with an offline dictionary attack"
- · Goal: Decrypt a given ciphertext, obtained by OpenSSL 1.1
 - -plaintext is English text
 - symmetric key derived by a word, then vulnerable to an offline dictionary attack
 - -important: use OpenSSL 1.1 (not OpenSSL 1.0.x)
 - · best: use a linux virtual machine
 - mac users can install it with brew install openss1@1.1
 - · windows: you can do it, if you really want to...
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DETAILS ON HW2

- · Details
 - encryption made by AES, with 192-bit key, in CBC mode
 - openssT enc -aes-192-cbc -pbkdf2 -e -in <infile.txt> -out ciphertext.enc
 - notice the -pbkdf2 option (read documentation)
 - get the ciphertext from the shared folder of the course (file ciphertext, enc)
- · Success is not required, just carefully describe how you setup your attack
 - measure your running time 7 THU IS THE TI-V WIMT ACTUAL FILE + WHITE ACT ALL
- · Write a report, explaining how you conducted your experiments, how you chose the dictionary
 - attach all possibly relevant materials (source code, tables, etc.)

CNS 2019 Homeworks

DEADLINE HW2

November 14th, 2019 (before midnight)

mailto: cns@diag.uniroma1.it (don't send it to me!)