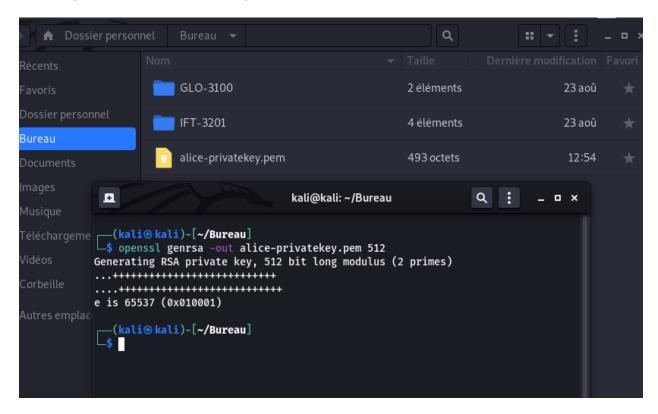
TP2

Exercice 3

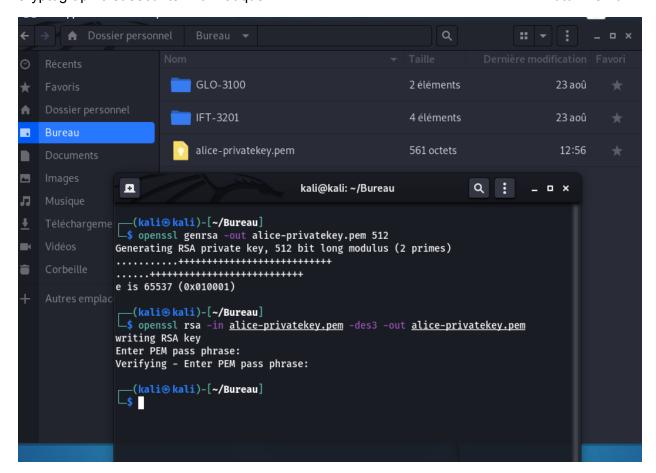
Question 1

openssl genrsa -out alice-privatekey.pem 512

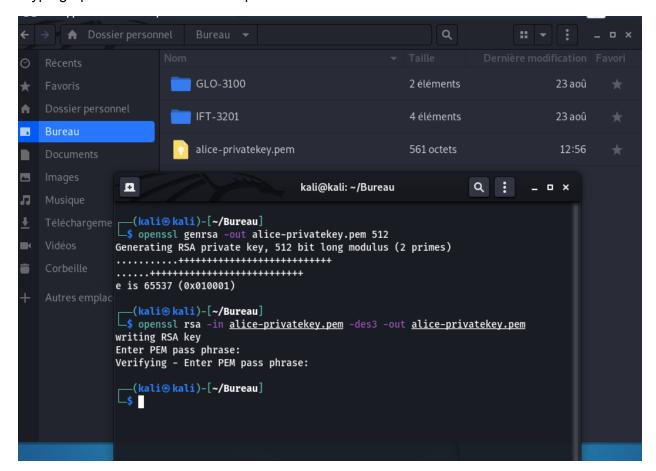


openssl rsa -in alice-privatekey.pem -des3 -out alice-privatekey.pem

(mot de passe utilisé : "alice")



openssl rsa -in alice-privatekey.pem -pubout -out alice-publickey.pem

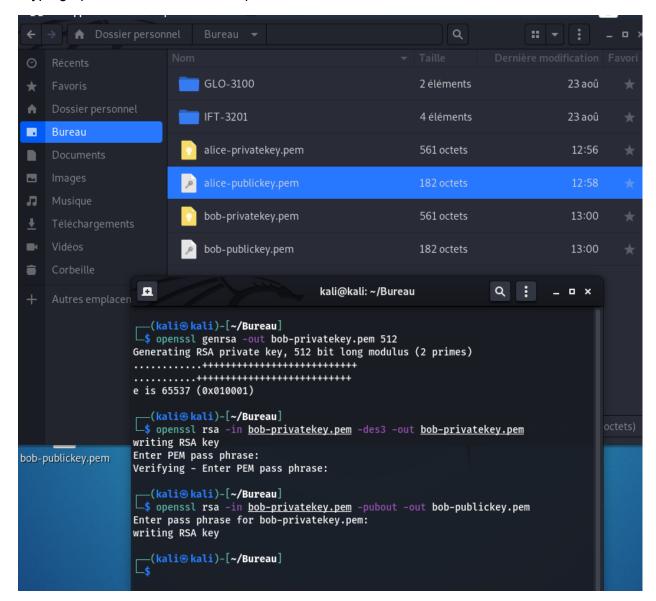


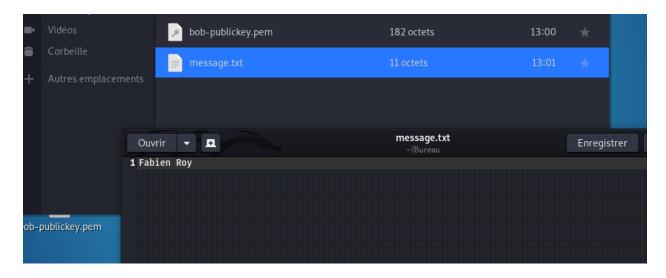
openssl genrsa -out bob-privatekey.pem 512

openssl rsa -in bob-privatekey.pem -des3 -out bob-privatekey.pem

(mot de passe utilisé : "fabien" ["bob" n'était pas assez long])

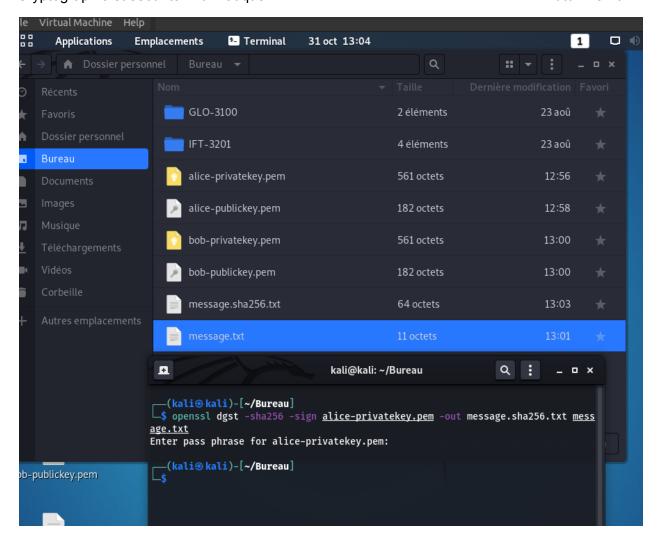
openssl rsa -in bob-privatekey.pem -pubout -out bob-publickey.pem



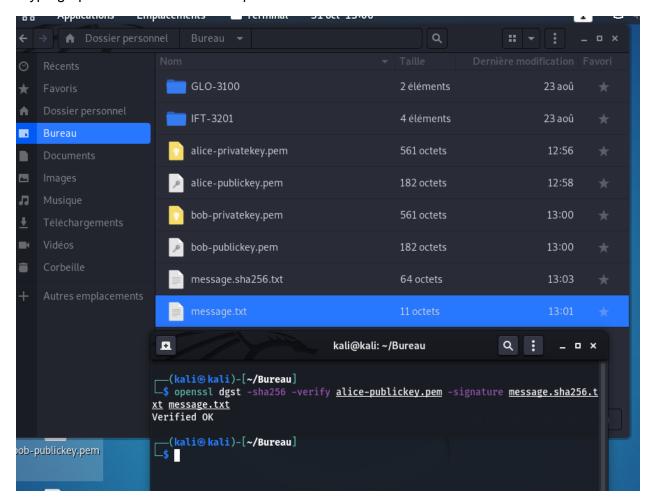


Question 5

openssl gst -sha256 -sign alice-privatekey.pem -out message.sha256.txt message.txt

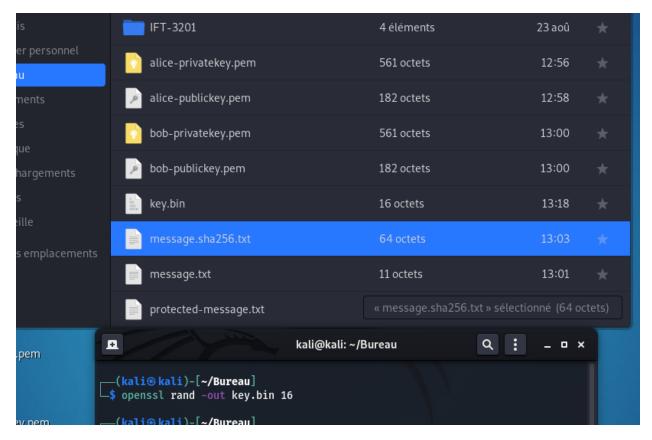


openssl dgst -sha256 -verify alice-publickey.pem -signature message.sha256.txt message.txt



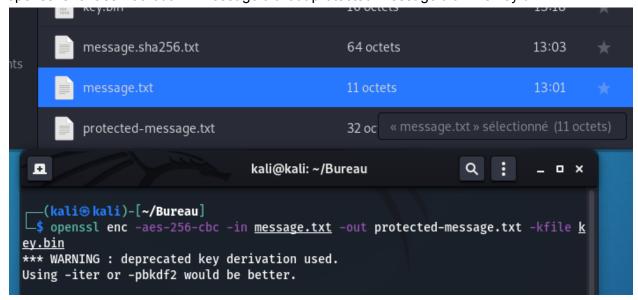
а

openssI rand -out key.bin 16



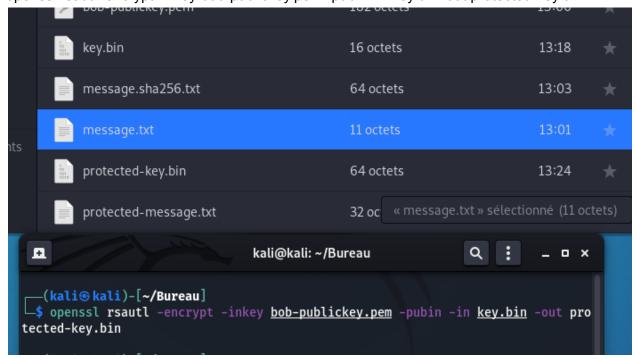
b

openssl enc -aes-256-cbc -in message.txt -out protected-message.txt -kfile key.bin



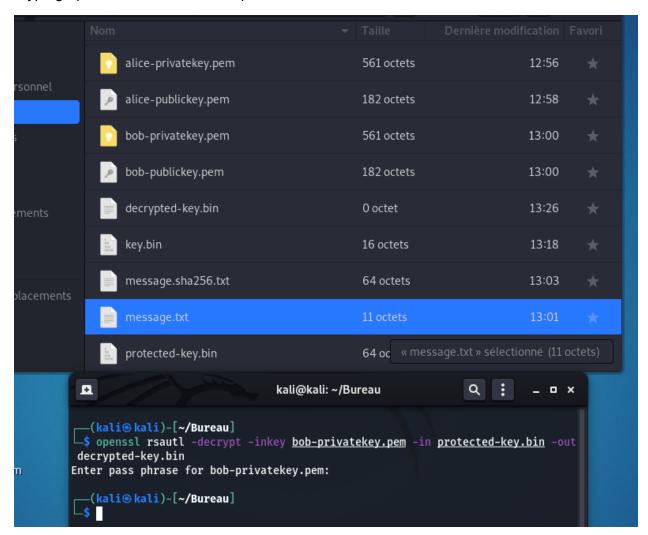
С

openssl rsautl -encrypt -inkey bob-publickey.pem -pubin -in key.bin -out protected-key.bin



Question 8

openssl rsautl -decrypt -inkey bob-privatekey.pem -in protected-key.bin -out decrypted-key.bin



openssl enc -d -aes-256-cbc -in protected-message.txt -out decrypted-message.txt -pass file:./decrypted-key.bin

