## ASSIGNMENT 5 UTILIZING VERACRYPT AND GPG FOR ENCRYPTION OF FILES AND MESSAGES BY

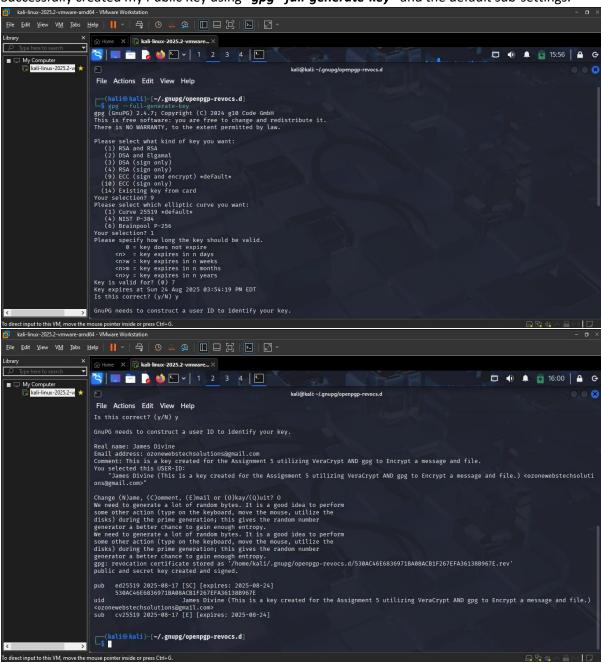
IJEI, CHUKWUMA FUMNANYA DIVINE JAMES

VeraCrypt Passkey: Starboy10.#

My Approach is to utilize GPG on Kali UI to encrypt a message using a public key and thereafter utilize VeraCrypt to encrypt the this file where I will be pasting the encrypted message hereby creating a kind of DOUBLE AUTHETICATION regarding the message I want to share with the recipient (which is the tutor) in this case.

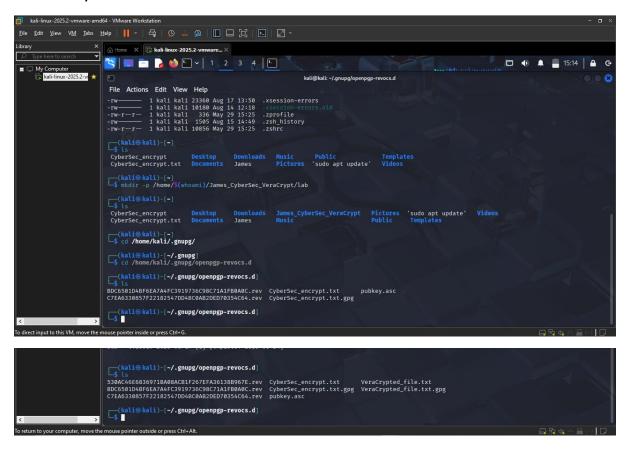
The initial stage is the encryption stage utilizing GPG:

Successfully created my Public Key using "gpg -full-generate-key" and the default sub-settings.

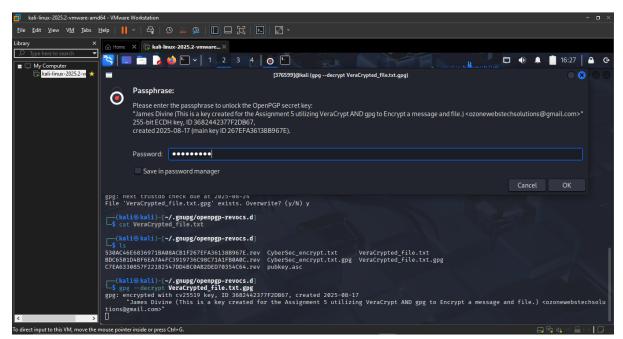


I have been able to successfully create new directory and also get the created public key from the "openpgp-revocs.d" folder inside the ".gnupg" folder.

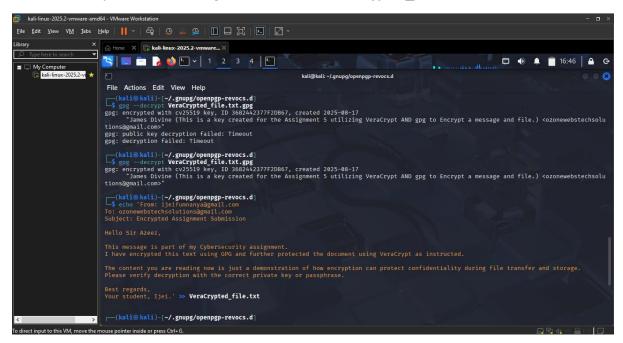
## Public Key: 530AC46E6836971BA08ACB1F267EFA36138B967E.rev



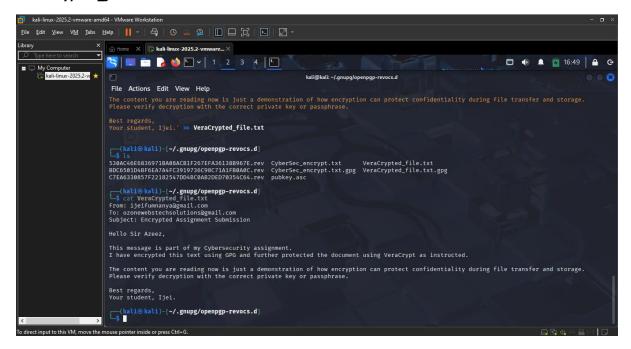
At this stage I am trying to perform the encryption of the message



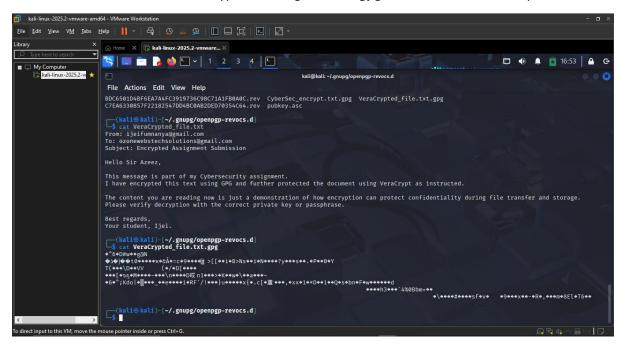
As we can see here the public key decryption is timed and can timeout of session so we need to be time conscious when trying to perform the encryption process. Thereafter we have our message which we have just "echoed" using "echo" into our "VeraCrypted\_file.txt"



Decided to "cat" it to cross-check if the text to be encrypted is inside the folder "VeraCrypted\_file.txt"



Then afterwards, checked the encrypted message in the ".gpg" file and we have our cipher-text in it.



## **Original Text:**

From: ijeifumnanya@gmail.com

To: ozonewebstechsolutions@gmail.com

Subject: Encrypted Assignment Submission

Hello Sir Azeez,

This message is part of my Cybersecurity assignment.

I have encrypted this text using GPG and further protected the document using VeraCrypt as instructed.

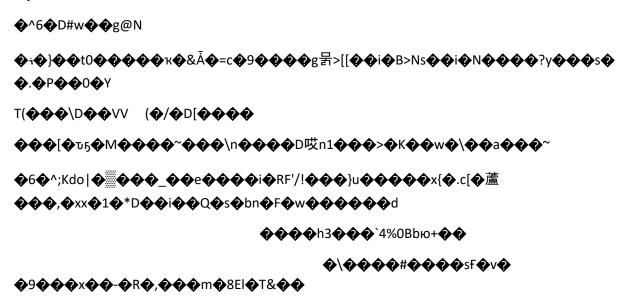
The content you are reading now is just a demonstration of how encryption can protect confidentiality during file transfer and storage.

Please verify decryption with the correct private key or passphrase.

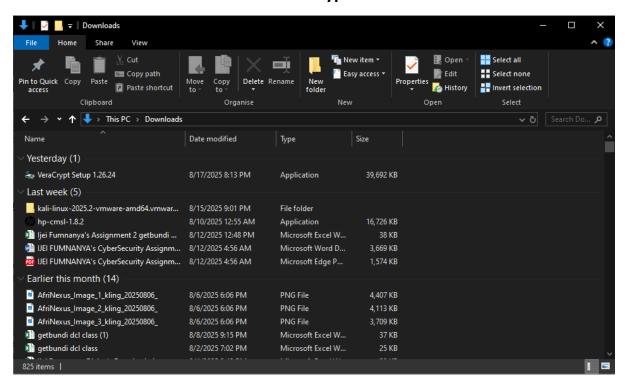
Best regards,

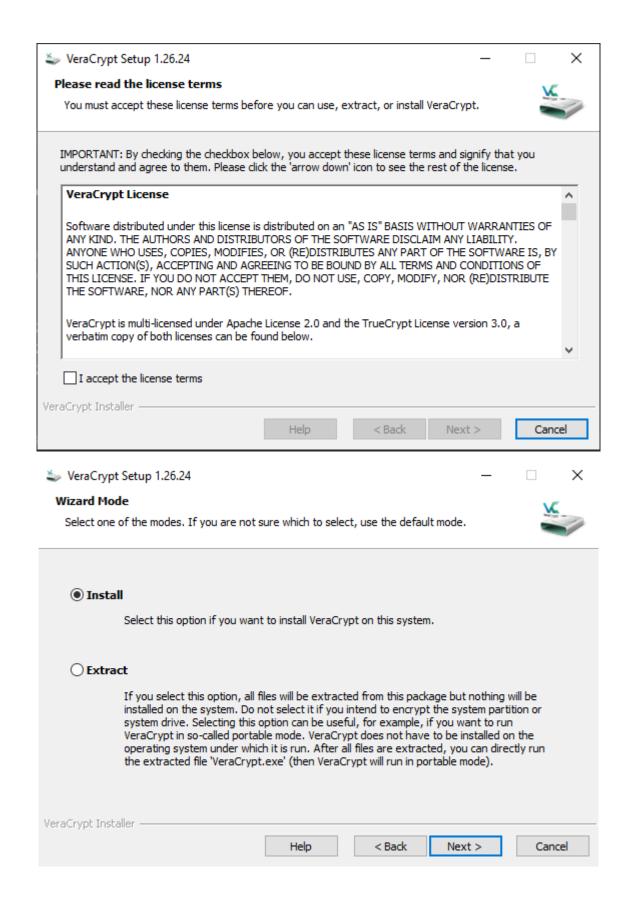
Your student, Ijei.

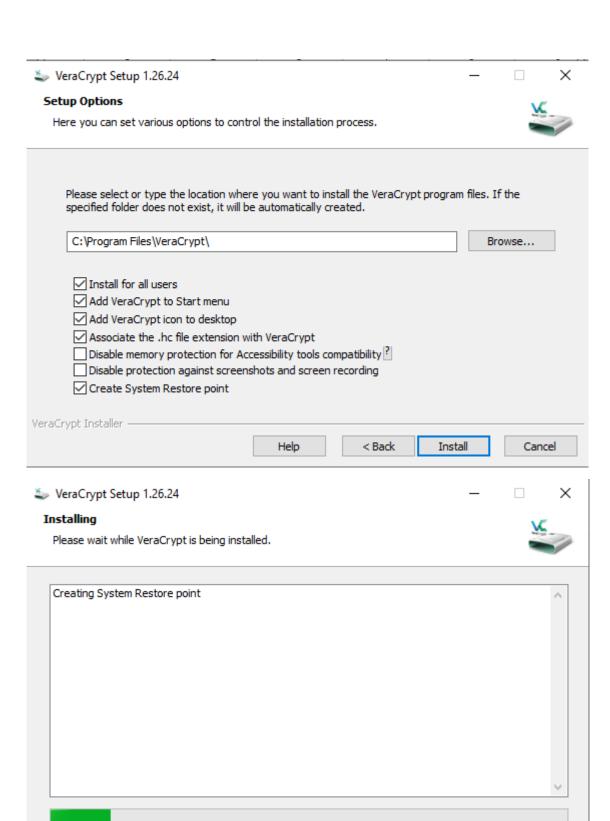
## Cipher-text:



Next stage of the assignment with my approach is to download and install VeraCrypt.







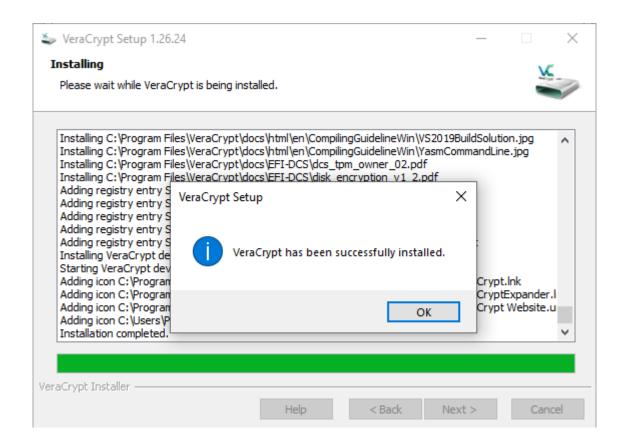
< Back

Next >

Cancel

Help

VeraCrypt Installer



Successfully installed and the PDF version of this particular file will be mounted in it on an encrypted volume using Advanced encryption standard (AES) encryption algorithm.