Using Encryption to Enhance Confidentiality and Integrity (4e)

Fundamentals of Information Systems Security, Fourth Edition - Lab 05

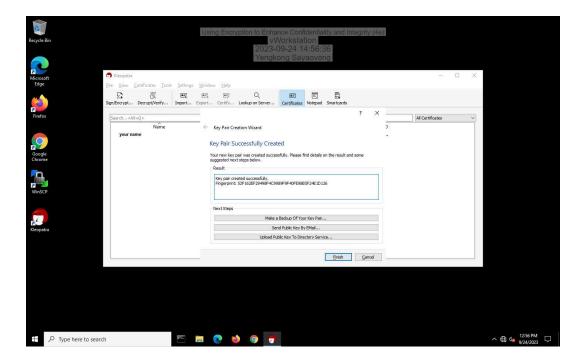
Student:	Email:
Yengkong Sayaovong	ysayaovo@asu.edu
Time on Task:	Progress:
0 hours, 52 minutes	83%

Report Generated: Sunday, September 24, 2023 at 4:40 PM

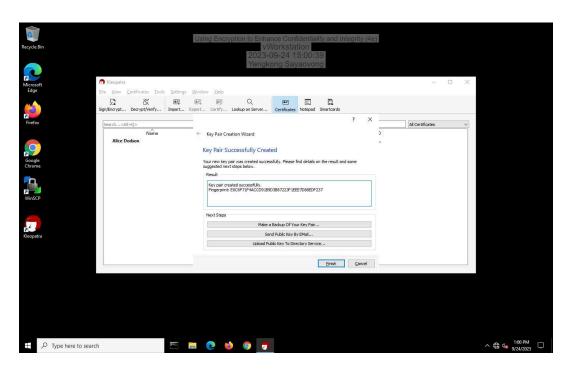
Section 1: Hands-On Demonstration

Part 1: Create and Exchange Asymmetric Encryption Keys

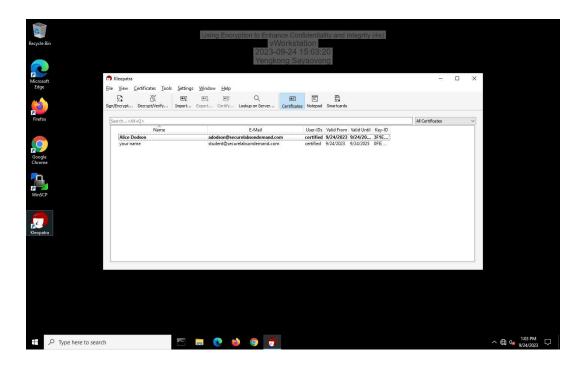
9. Make a screen capture showing the fingerprint for your key pair.



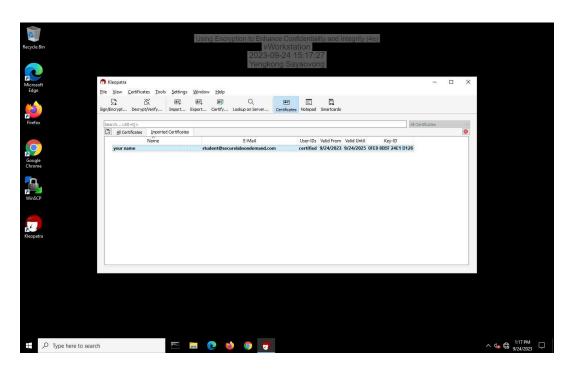
22. Make a screen capture showing the fingerprint for Alice's key pair.



30. Make a screen capture showing your public key in Alice's certificate cache.

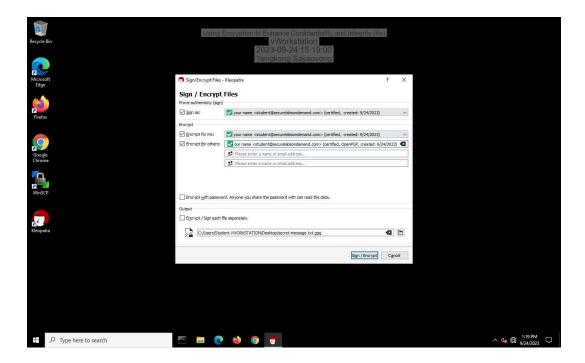


35. Make a screen capture showing Alice's public key in your certificate cache.

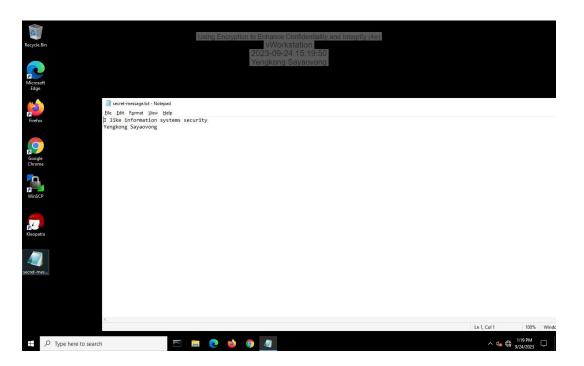


Part 2: Encrypt a File Using Asymmetric Encryption

9. Make a screen capture showing the successful signing and encryption message.



12. Make a screen capture showing the ciphertext.



Part 3: Decrypt a File Using Asymmetric Encryption

15. Make a screen capture showing the Decrypt/Verify Files window.

Incomplete

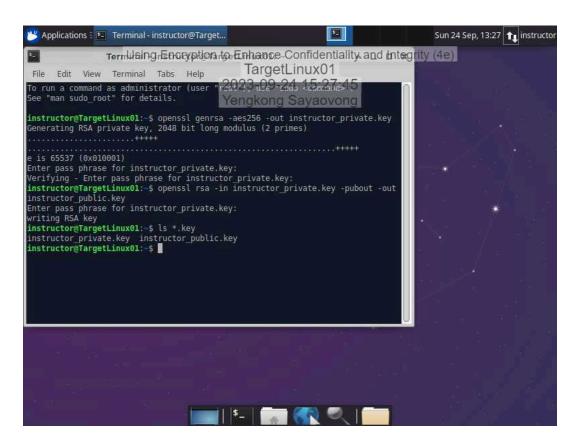
18. Make a screen capture showing the decrypted secret-message.txt file in Notepad.

Incomplete

Section 2: Applied Learning

Part 1: Create an Asymmetric Key Pair

10. Make a screen capture showing the instructor's key pair files.

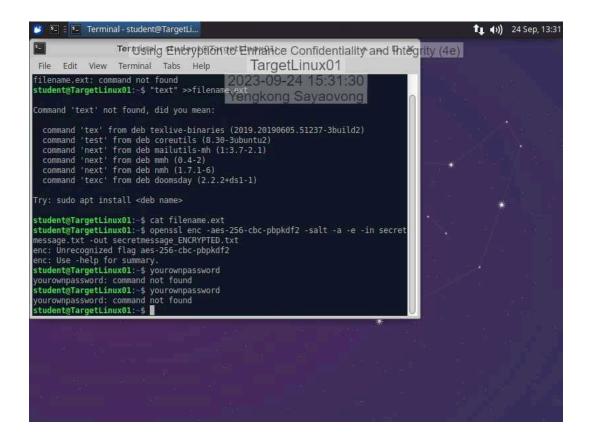


Part 2: Encrypt a File Using Symmetric Encryption

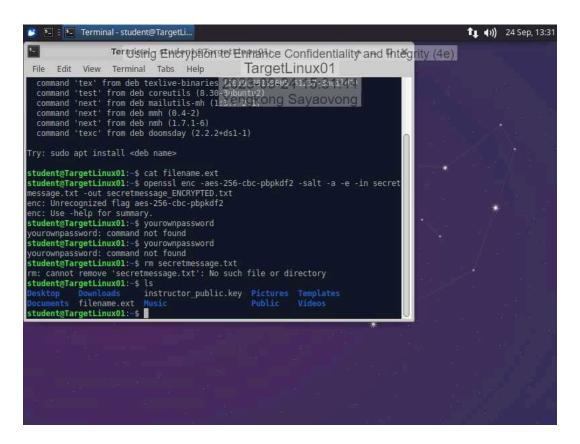
11. **Document** the password you used to symmetrically encrypt the file.

yourownpassword

13. Make a screen capture showing the ciphertext in the secretmessage_ENCRYPTED.txt file.

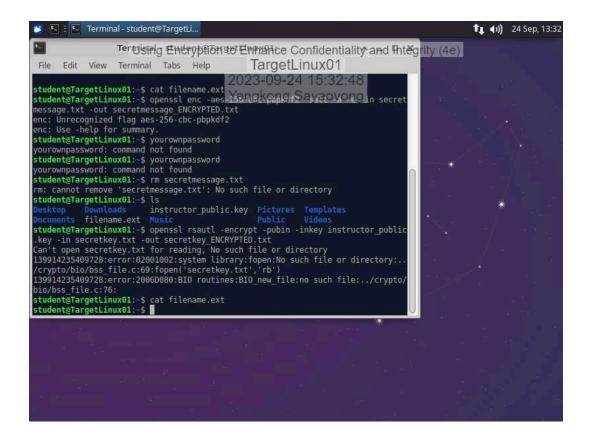


16. Make a screen capture showing the output of the Is command.

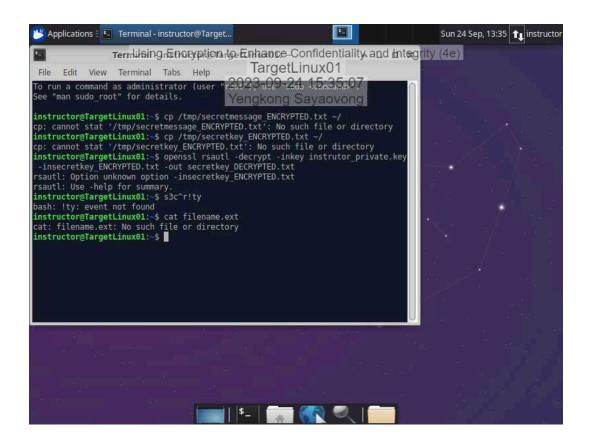


Part 3: Transfer and Decrypt a File Using Hybrid Cryptography

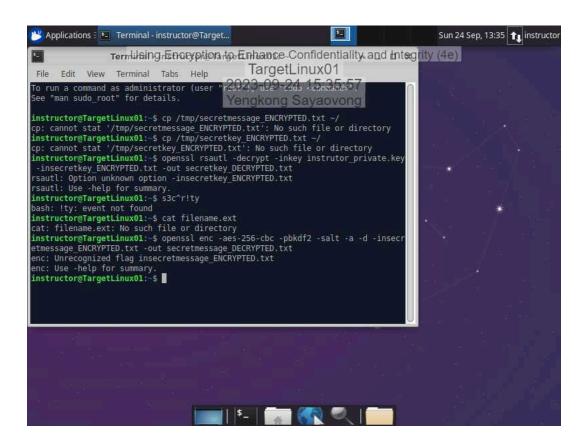
6. Make a screen capture showing the encrypted contents of the secretkey_ENCRYPTED.txt file.



17. Make a screen capture showing the decrypted contents of the secretkey_DECRYPTED.txt file.



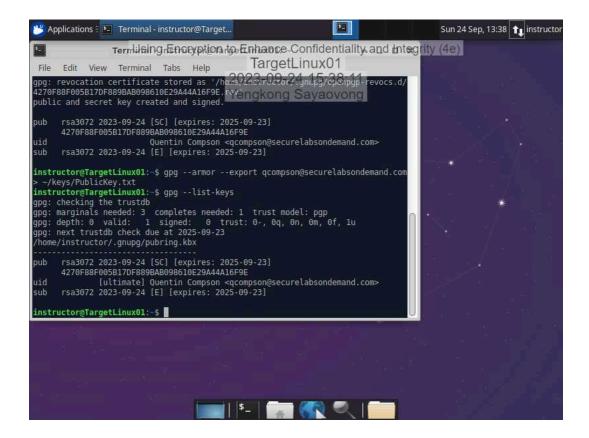
21. Make a screen capture showing the contents of the secretmessage_DECRYPTED file.



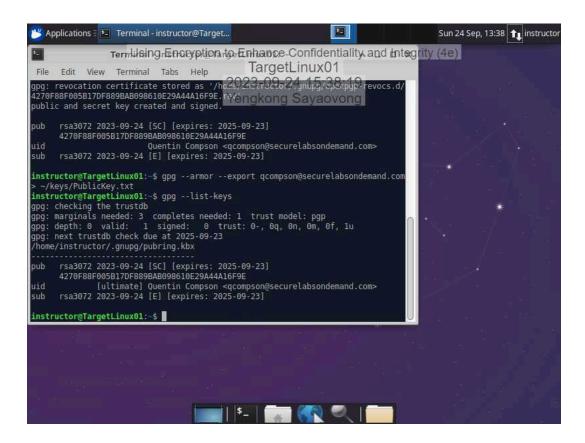
Section 3: Challenge and Analysis

Part 1: Digitally Sign a Document Using GPG

Make a screen capture showing the key fingerprint for the key pair you generated in this part of the lab.



Make a screen capture showing the contents of the unsignedmessage.txt file.



Part 2: Verify the Digital Signature Using Kleopatra

Make a screen capture showing the successful signature verification on the signed message file.

Incomplete