

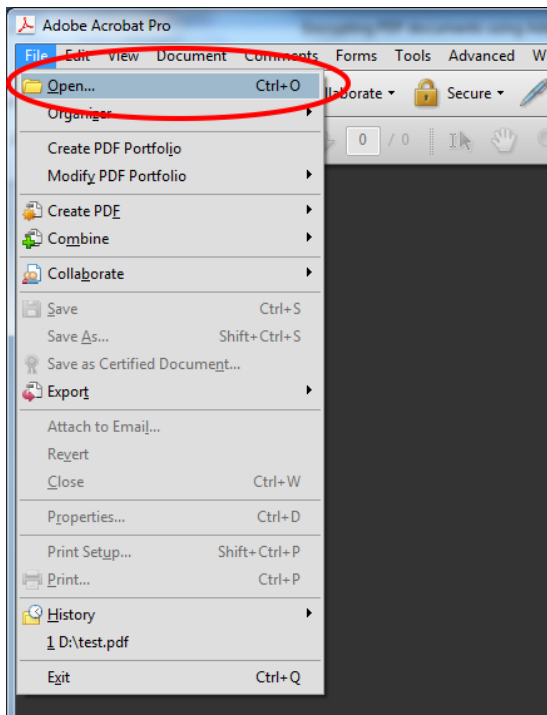
Encrypting PDF documents using Adobe Acrobat Professional

A. Introduction

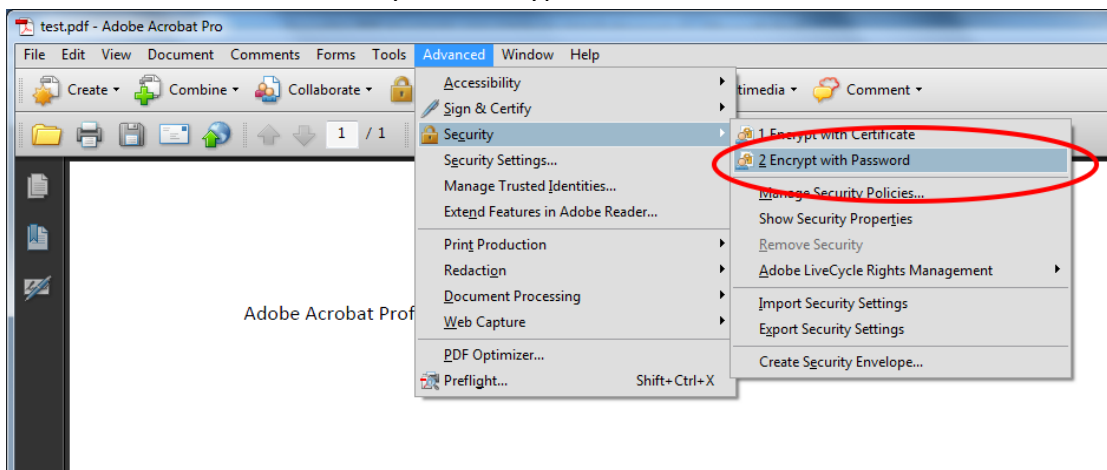
Users are recommended to encrypt sensitive data especially when they are stored in removable devices, stored in mobile computers, or transferred through Email. Acrobat 8 supports 128-bit AES and Acrobat 9 supports 256-bit AES strong encryption as their standard functions. When used with a strong password, data can be protected from leakage and information from exposure risks.

B. Encrypting PDF Document

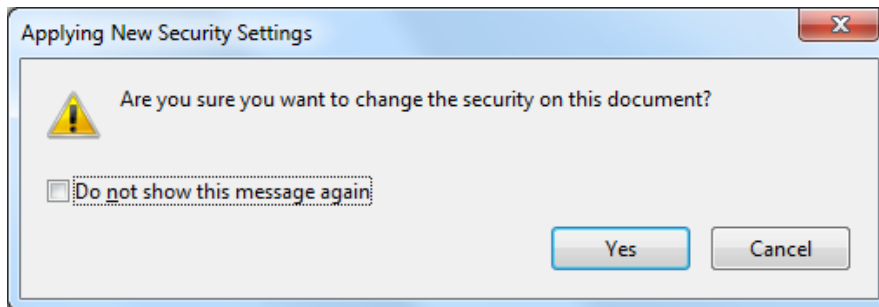
- i. Open a PDF document



- ii. Select "Advanced" -> "Security" -> "Encrypt with Password"

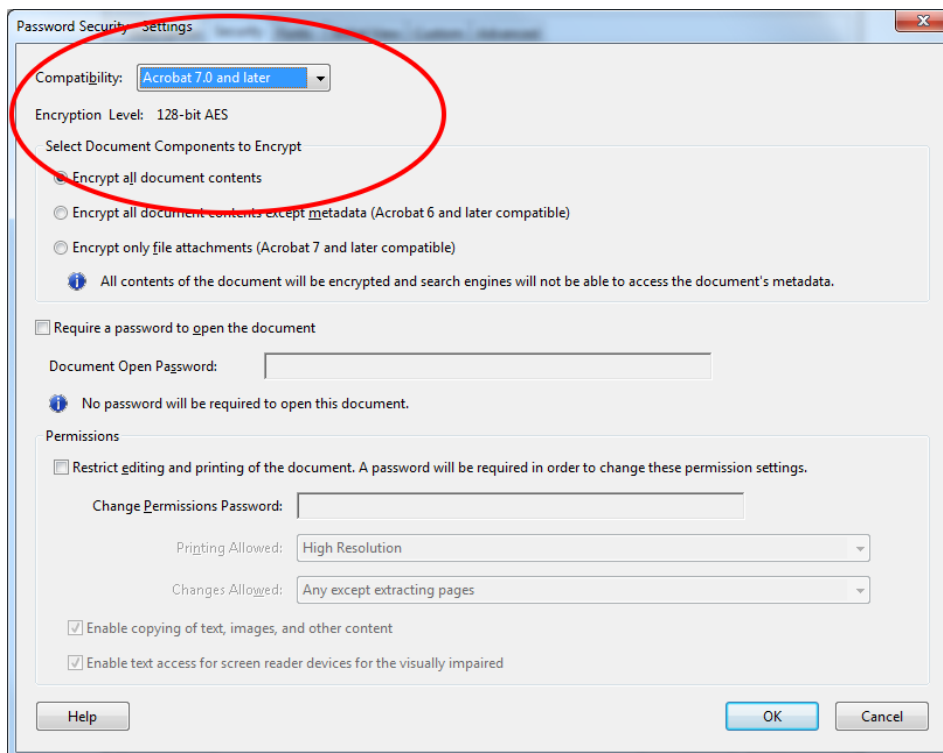


iii. Click “Yes” to continue

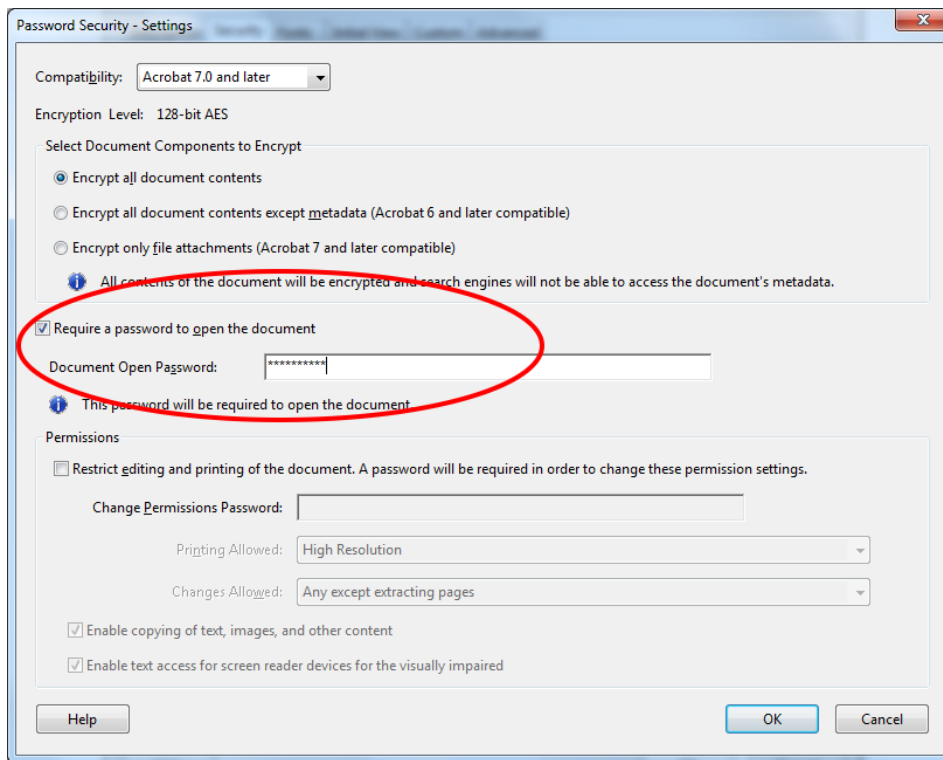


iv. Select the Compatibility (Encryption Level)

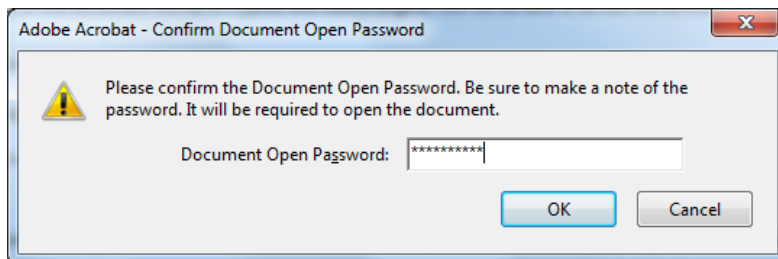
Acrobat 9.0 and later versions encrypt the document using the AES encryption algorithm with a 256-bit key size. Using an earlier version of Acrobat cannot open a PDF document with a higher compatibility setting.



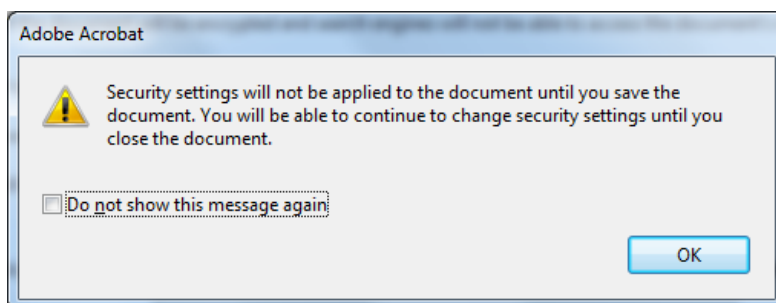
- v. Tick the check box “Require a password to open the document” and enter the password, then click “OK”



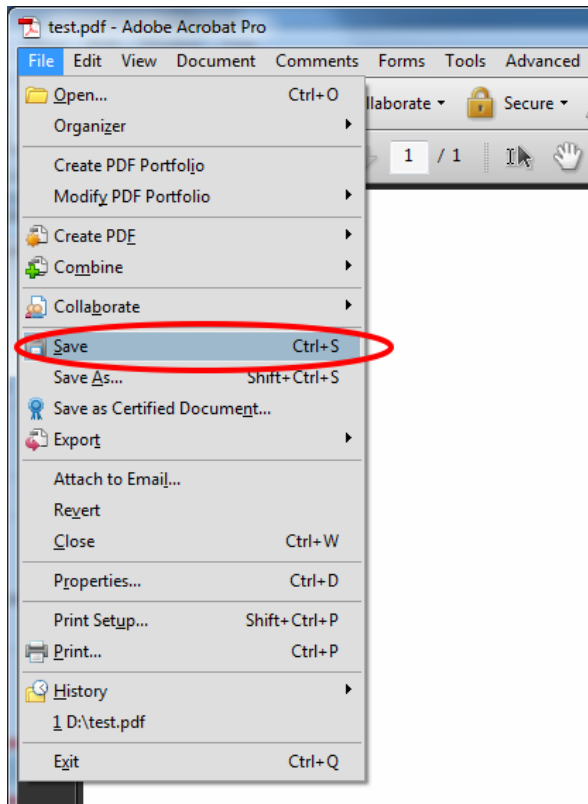
- vi. Enter the password again to confirm the Document Open Password



- vii. Click “OK”

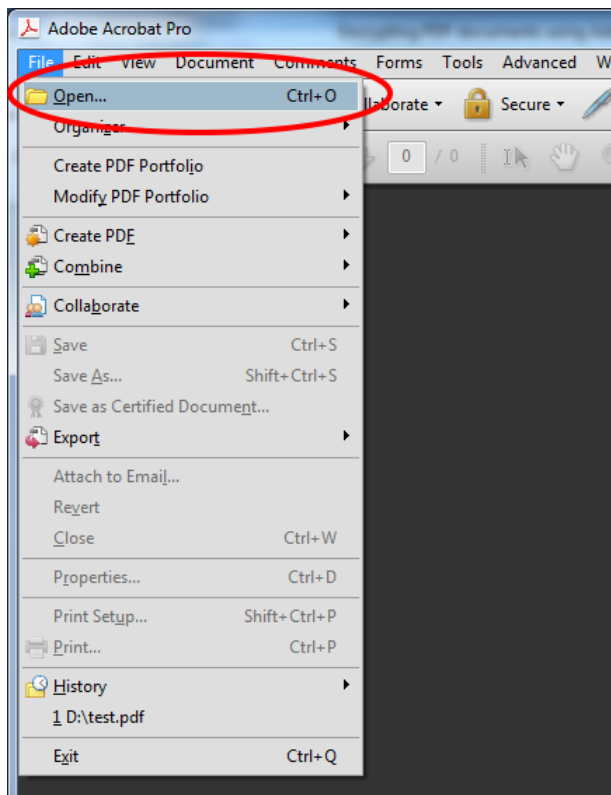


viii. Save the PDF document to apply the security settings

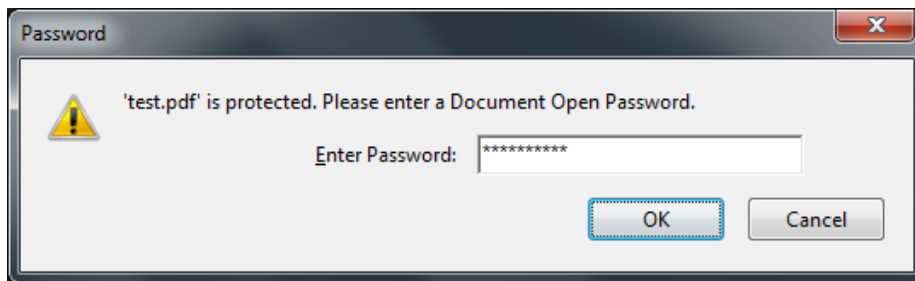


C. Removing Password Security

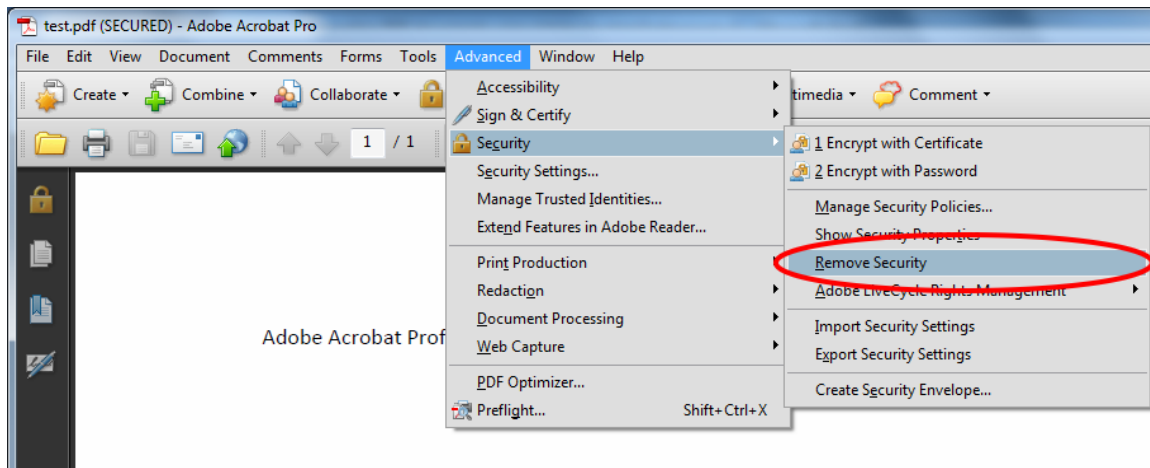
i. Open an encrypted PDF document



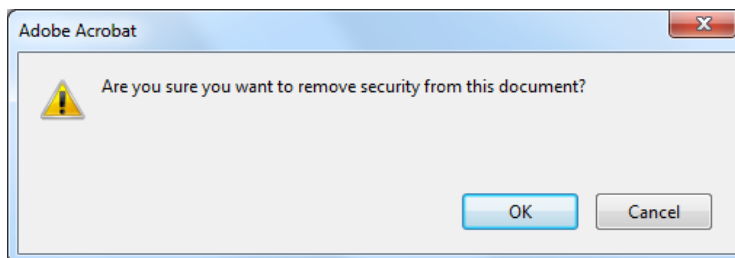
- ii. Enter the password and click “OK” to open the encrypted PDF document



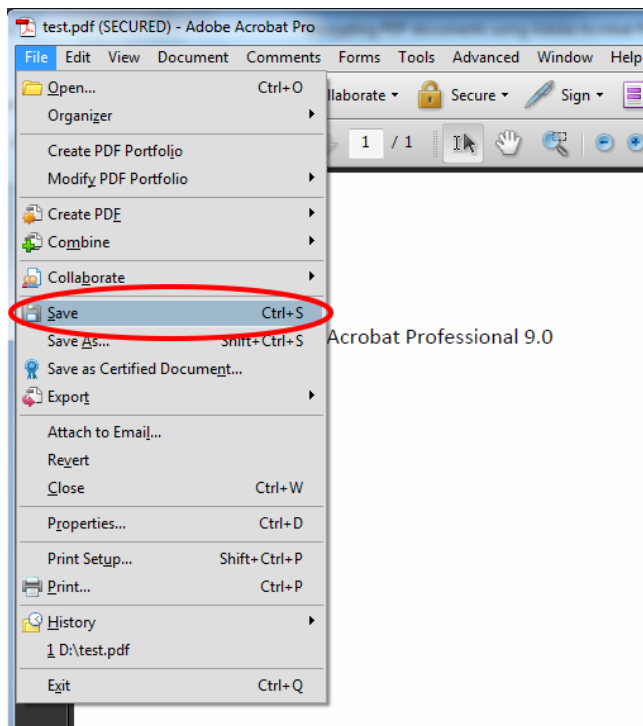
- iii. Select “Advanced” -> “Security” -> “Remove Security”



- iv. Click “OK”



- v. Save the PDF document to apply the security settings



D. References

Please refer to the following resources for more information:

1. Advanced Encryption Standard (AES) from Wikipedia
http://en.wikipedia.org/wiki/Advanced_Encryption_Standard
2. Acrobat 9 and password encryption from Adobe
http://blogs.adobe.com/security/2008/12/acrobat_9_and_password_encrypt.html
3. FIPS PUB 140-2 Security Requirements for Cryptographic Modules from NIST
<http://csrc.nist.gov/publications/fips/fips140-2/fips1402.pdf>