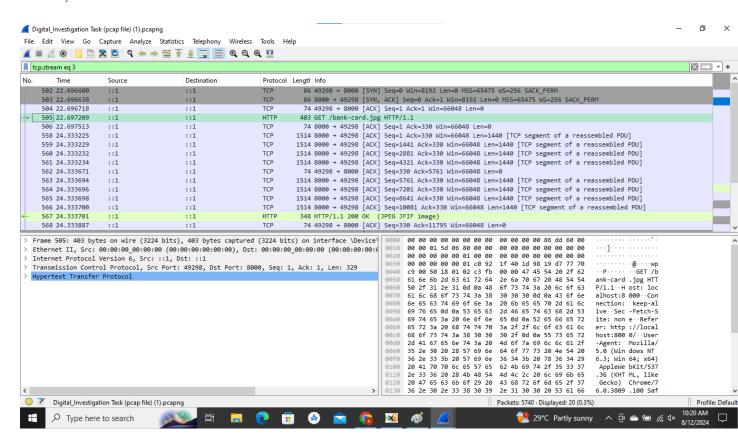
Sub-task 1:

- anz-logo.jpg and bank-card.jpg are two images that show up in the user's network traffic.
- Extract these images from the pcap file and attach them to your report.

Packet Capture Analysis:

I analyzed the provided packet capture file using Wireshark, a free network analysis tool. By applying the "http" filter, I was able to narrow down the traffic to display only HTTP packets. This allowed me to observe several notable HTTP GET requests, including one specifically requesting a file named anz-logo.jpg and card.jpg.

Further, I examined the associated TCP stream.



The data within the TCP stream indicated that this GET request actually downloaded many images, as evidenced by the presence of more than one sets of headers and footers for a .jpg file. The headers and footers are identified by the hex values FFD8 and FFD9, respectively, and the images are recognizable in ASCII by the 'JFIF' string near the beginning.

| ✓ Wireshark · Follow TCP Stream (tcp.stream eq 3) · Digital_Investigation Task (pcap file) (1).pcapng | _ | | × |
|--|--|---|---|
| 474554202f62616e6b2d636172642e6a706720485454502f312e310d0a486f73743a206c6f63616c686f73743a3830300d0a436f6e6a 3206b6565702d616c6976550d0a5365632d46657463682d536974653a206e6f6e650d0a526566657265723a20687474703a2f2f6c6f63 32030302f0d0a557365722d4167656e743a204d6f7a696c6c612f352e3022857696e646f7773204e5420362e333b2057696e36343b2 0706c655765624b69742f3533372e3333620284b4854d44c2c206c696b65204765636b6f29204368726f6d552f37362e302e333b30392e 6172692f3533372e3330204f3b0d0a4163636570742d456e36f6496e673a20677a69702c2064656666c6174652c2062720d0a41636365570742d556635f70742d55665570742d55655570742d55656357373d20c2720d0a41636365570742d556563564096659655643a204672692c20313392030303a34373a353320474d540d0a4 485454502f312e3120323030204f4b0d0a446174653290d0a4c6173742d4d6f64696669656543a204672692c20303920417567203230313 333820474d540d0a455461673a2022326366322d35386661373533433363533835220d0a4163636570742d52616e6765733a206279744 45656742d4c656e6774683a20921333383080d0a4b6565702d416c6976653a20d45743d5520266617383d31309300d0a436f66 3a204b6565702d416c6976650d0a436f6e74656e742d547970653a20696d6167652f6a7065670d0a0d0afffd8ffe000104a46494600010 0ffdb0084000900e071312121512121215161571518171771715181d18171815151741818181818128201d1d2521e1d17223121259 38332237382d2e2b00 a00e0800e0010210300041110002110003000000000000000 | 616c686 60783634 63130302 644c6166 63657270 12030344 15730400 16665633 1000000 12b2e2e 102d2d20 10304060 14462748 13811000 1092110 10500500 11f717cc 10500500 11f717cc 10500500 11f717cc 10500500 11f717cc 10500500 11f717cc 10500500 11f717cc 10500500 1050000 10500000 10500000 10500000 105000000 1050000000 | 4696f6e: 66773743a 42920412 20536166 e6775616 665723a2 33303833 43666e7 74696f6e 10001000 2e171f33 d2d2d2d2 050807f1 292b1b3c 050606666d64 aa6a6e22 a9c364ec f7effb06 5ec3f536 b3bdfc9e f6092faa6 5cdc5ae8 8a01d548 0d9d5221 b3d1b3c5 8955aad9 1eb07e88 5ecb732b d7f357e5 | 3 a 7 6 6 2 a 7 e 0 3 2 f d 1 0 e 4 7 c 6 d e 6 a 8 1 9 9 a b 5 |
| 7dc6bae2f11c368f0993e97fe4375fa3cbf60d7a5753c879f057638935adb3c8da634776e7a514b36073e0a09a369752a8b7c90f36328 460e7d098cfd54d4aac6895d51349b22e15951ade70cf9d2a6270cda464e90465b039e2a6a8f70f1cafa0c93674cae236865572321191 807e835752abb0e124ea8921d8f72ca1d6da764232196272a47686030477d4d51ee3773ae85315a398a2a9070a1078aa658e06a919229 | .839182 aa65a1 | 72148c91 ea6a9868 | 1 8 |
| 90355b32d0f0d54cd0e0f4b2506ba58d234bd4b2d1259c1bc9163d4aba980d4e70aa0f3662790038d6652a567484354923eebb22f7665 | bdb8b6 | 3ee6df4e | Y |
| Packet 558. 1 client pkt, 9 server pkts, 1 turn. Click to select. | 6. | | |
| Entire conversation (12 kB) Show data as Raw | Stre | eam 3 | ‡ |
| Find: ffd8 | | Find Ne | ext |
| Filter Out This Stream Print Save as Back CI | ose | Help | |

and the extracted image is for anz-logo.jpg is given below



anz–logo.jpg

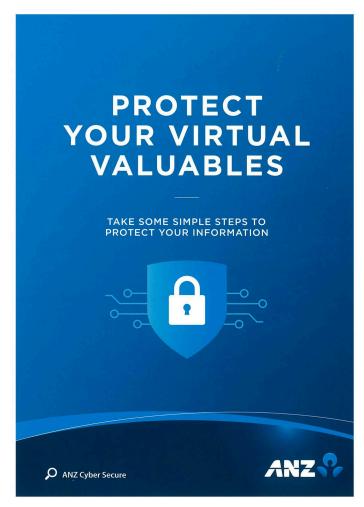
and for the second image i followed the same process and the image for card.jpg is given below



card.jpg

Sub-task 2:

- The network traffic for the images "ANZ1.jpg" and "ANZ2.jpg" is more than it appears.
- Extract the images, include them and mention what is different about them in your report.



ANZ1.jpg



ANZ2.jpg

Sub-task 3:

- The user downloaded a suspicious document called "how-to-commit-crimes.docx"
- Find the contents of this file and include it in your report.

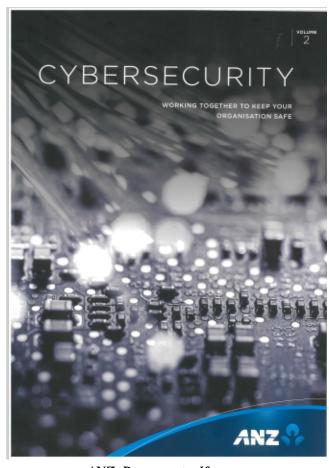
The contents of this docx file is given below

Step 1: Find target Step 2: Hack them

This is a suspicious document.

Sub-task 4:

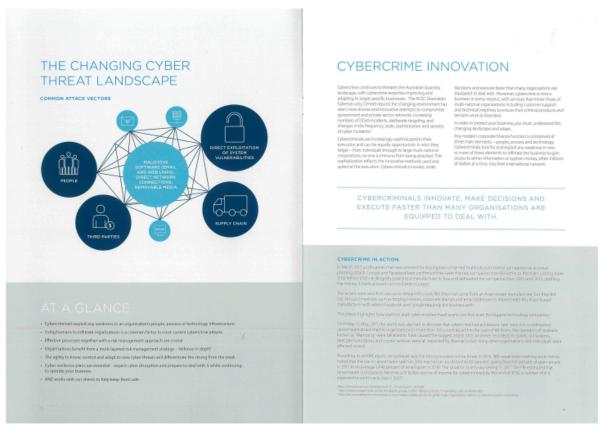
- The user accessed 3 pdf documents: ANZ Document.pdf, ANZ Document2.pdf, evil.pdf
- Extract and view these documents. Include images of them in your report.





More suspicious stuff good job!

Evil.pdf



ANZ_Document2.pdf

Sub-task 5:

- The user also accessed a file called "hiddenmessage2.txt"
- What is the contents of this file? Include it in your report

That's not a txt file but a jpg file so they are trying to deceive us b showing that they viewed the txt file but actually they say the jpg which is given below



hiddentext2

Sub-task 6:

- The user accessed an image called "atm-image.jpg"
- Identify what is different about this traffic and include everything in your report.



atm-image.jpg

The headers and footers are identified by the hex values FFD8 and FFD9, respectively, and the image is recognizable in ASCII by the 'JFIF' string near the beginning.

Sub-task 7:

- The network traffic shows that the user accessed the image "broken.png"
- Extract and include the image in your report.



broken.png

There is no png file so i view the data in ascii form then decode it from an online toll 64 bit decoder then paste the data hxd and view this image.

Sub-task 8:

- The user accessed one more document called securepdf.pdf
- Access this document includes an image of the pdf in your report. Detail the steps to access it.

The password is secure for the pdf file and we retrieve two images from this secured.pdf So I copied the hex of the zip file into HxD and saved it as a zip file. I opened this zip file, and found it contained a pdf file called rawpdf.pdf. When opened, the pdf prompted for a password. The password 'secure' shown in the tcp stream worked, and the PDF opened. It was the first two pages to a guide for internet banking.

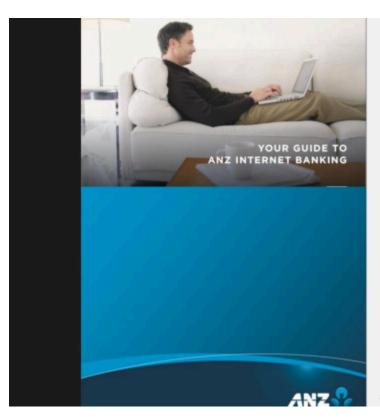


TABLE OF CONTENTS

| Why use ANZ Internet Banking? | |
|--|-----|
| Online Security | 4 |
| Getting started | 5 |
| Viewing your accounts | 6 |
| Transferring funds | 7 |
| Check the details before you pay | |
| Your transfer receipt | 9 |
| Paying bills | 10 |
| Using Pay Anyone | 11 |
| International Money Transfers | 12 |
| Logging Off | 13 |
| Things you need to know | 14 |
| Programme and a state of a second con- | 100 |

2