Hanna Rakhsha h_r77 CS 4371 – Gu Homework 1

- 1(a) Confidentiality, Mary should keep her homework in a personal folder or file, so only she has access to it. This would prevent copying.
- (b) Availability, Linda's system should block unauthorized attempts to her system with a simple login feature. This would prevent her system crashing.
- (c) Integrity, someone (other than Carol) should verify the amount on the checks to detect and limit dishonesty.
- (d) Integrity, the people with the deed should verify the signature from a personal document of Roger's (like passport, driver's license, government id, etc.) to prevent forgery.
- (e) Availability, the university should have a backup server in case of deletion.
- (f) Integrity, Julie should require a special security token to prevent spoofing attacks.



- \triangleright Frame 11: 617 bytes on wire (4936 bits), 617 bytes captured (4936 bits) on interface 0
- ▶ Ethernet II, Src: Apple_a3:e8:c1 (f4:5c:89:a3:e8:c1), Dst: JuniperN_ea:dc:00 (f4:cc:55:ea:dc:00)
- ▶ Internet Protocol Version 4, Src: 10.219.136.54, Dst: 147.26.156.12
- ▶ Transmission Control Protocol, Src Port: 49420, Dst Port: 80, Seq: 1, Ack: 1, Len: 551
- ▶ Hypertext Transfer Protocol

```
f4 cc 55 ea dc 00 f4 5c
                                   89 a3 e8 c1 08 00 45 00
                                                                 ·[··@·@· ve···6·
0010 02 5b 00 00 40 00 40 06
                                   76 65 0a db 88 36 93 1a
                                                                     ··Pq{ ·p··
0020
      9c 0c c1 0c 00 50 71 7b
                                   80 70 92 80 0a f9 80 18
      08 0a c2 a3 00 00 01 01
ab 75 47 45 54 20 2f 7e
0030
                                   08 0a 0c a2 77 5d 7c ed
                                                                  uGET /~ download
0040
                                   64 6f 77 6e 6c 6f 61 64
      2f 74 6f 6f 6c 73 2f 20
                                   48 54 54 50 2f 31 2e 31
66 75 78 69 2e 63 73 2e
0050
                                                                 /tools/
                                                                           HTTP/1.1
      0d 0a 48 6f 73 74 3a 20
                                                                  ··Host:
                                                                           fuxi.cs.
      74 78 73 74 61 74 65 2e 65 70 74 3a 20 74 65 78
                                   65 64 75 0d 0a 41 63 63
                                                                 txstate. edu Acc
                                   74 2f 68 74 6d 6c 2c 61
                                                                 ent: tex t/html.a
      70 70 6c 69 63 61 74 69
                                   6f 6e 2f 78 68 74 6d 6c
                                                                 pplicati on/xhtml
```

(b) Source: f4:5c:89:a3:e8:c1 (c) Source: 10.219.136.54 (d) Source Port: 49420

Hypertext Transfer Protocol (http), 551 bytes

(e) Request: GET /~download/tools/ HTTP/1.1\r\n

Destination: f4:cc:55:ea:dc:00 Destination: 147.26.156.12

Packets: 32 · Displayed: 2 (6.2%) · Dropped: 0 (0.0%) Profile: Default

Destination Port: 80

Response: HTTP/1.1 200 0K\r\n

3 (a) IP address of the website: 147.26.156.12

(b) http://fuxi.cs.txstate.edu/~download/tools/

http://fuxi.cs.txstate.edu/icons/blank.gif

http://fuxi.cs.txstate.edu/icons/back.gif

http://fuxi.cs.txstate.edu/icons/folder.gif

http://fuxi.cs.txstate.edu/icons/compressed.gif

http://fuxi.cs.txstate.edu/~download/tools/Kali.vbox/

http://fuxi.cs.txstate.edu/icons/back.gif

http://fuxi.cs.txstate.edu/icons/text.gif

http://fuxi.cs.txstate.edu/icons/unknown.gif

http://fuxi.cs.txstate.edu/icons/blank.gif

http://fuxi.cs.txstate.edu/icons/script.gif

http://fuxi.cs.txstate.edu/~download/tools/Kali.vbox/readme.txt

http://fedoraproject.org/static/hotspot.txt

(c) Content-Type: text/plain; charset=utf-8\r\n

Line based text data: OK

4 (a)

(b)

```
Starting Nmap 7.70 (https://nmap.org ) at 2019-02-03 14:25 CST
NSE: Loaded 148 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 14:25
Completed NSE at 14:25, 0.00s elapsed
Initiating NSE at 14:25
Completed NSE at 14:25, 0.00s elapsed
Initiating NSE at 14:25
Completed NSE at 14:25, 0.00s elapsed
Initiating Parallel DNS resolution of 1 host. at 14:25
Completed Parallel DNS resolution of 1 host. at 14:25
Completed Parallel DNS resolution of 1 host. at 14:25
Scanning 10.219.136.54 [1000 ports]
Discovered open port 8080/tcp on 10.219.136.54
Discovered open port 8080/tcp on 10.219.136.54
Discovered open port 8000/tcp on 10.219.136.54
Discovered open port 8000/tcp on 10.219.136.54
Completed SYN Stealth Scan at 14:25
Scanning 10.219.136.54
Service scan at 14:25
Scanning 4 services on 10.219.136.54
Service scan Iming: About 75.00% done; ETC: 14:28 (0:00:51 remaining)
Completed Service scan at 14:28, 151.13s elapsed (4 services on 1 host)
Initiating OS detection (try #1) against 10.219.136.54
Retrying OS detection (try #2) against 10.219.136.54
Retrying OS detection (try #3) against 10.219.136.54
Retrying OS detection (try #4) against 10.219.136.54
Retrying OS detection (try #3) against 10.219.136.54
Retrying OS detection (try #4) against 10.219.136.54
Retrying OS detection (try #5) against 10.219.136.54
Retrying OS detection (try #6) against 10.219.136.54
Retrying OS detection (t
          | nctp-methods:

| Supported Methods: GET HEAD | http-server-header: nginx/1.4.6 (Ubuntu) | http-title: TxState Ctf - Homepage | 1111/tcp open vce?
                   fingerprint-strings:
DNSStatusRequestTCP:
                                                 ODY===
                                   DNSVersionBindReqTCP:
NDc0==
FourOhFourRequest:
                                                  OTg4==
NDU1==
NjA5==
                                     GenericLines:
                                                  NDAz==
ODU1==
                                                    ODk2==
                                   GetRequest:
MjYz==
MjQ2==
                                                  Mjc0==
                                   HTTPOptions:
MzY4==
MzEw==
                                                    N1M5==
                                   Help:
ODkz==
                                                  NDc1==
                                     JavaRMI:
                                   Nzg===
Kerberos:
                                                  OTc5==
                                     OTgx==
LANDesk-RC:
                                                  MTc0
                                     LDAPBindReq:
                                  LDAPBINDREQ:
NzIO==
LDAPSearchReq:
MjAO==
MjY===
NzUw==
                                     LPDString:
                                                  MzA1==
                                                     NDk0==
                                                  NDQz==
                                     NIII.I.
                                     NotesRPC:
```

```
OTM4==
                         RPCCheck:
                                     Mg==
                         RTSPRequest:
                                   NjA===
MzQ1==
                                      MjMO:
                         SIPOptions:
OTE3==
NTY2==
                                      Njkz==
                                      NzM2==
                                     MZCX==
OTA1==
                                      NjIw==
                                     Mjc0==
NTg1==
                                      ODAy==
                                      MTCZ==
                                     M2112==
                         SMBProgNeg:
                                   OTq2=
                         SSLSessionReg:
                                   Mzg4==
NjU1==
                         TLSSessionReg:
                                  MTAY==
OTc5==
                         TerminalServer:
                                   ODk 2==
                         WMSRequest:
MjI4==
                         X11Probe:
                                   NTIO==
                         giop:
                                   NDY4==
                        ms-sql-s:
MTQ0==
                         oracle-tns:
                                   NzMO:
   49152/tcp open
  49152/tcp open unknown
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint
| service unrecognized despite returning data. If you know the service/version, please submit the for the strice unrecognized despite returning data. If you know the service/version, please submit the for the strice unrecognized despite returning data. If you know the service/version, please submit the for the strice unrecognized despite returning data. If you know the service/version, please submit the for the strice unrecognized despite returning data. If you know the service/version, please submit the for the strice unrecognized despite returning data. If you know the service/version, please submit the for the strice unrecognized despite data. If you know the service/version, please submit the for the strice unrecognized despite data. If you know the service/version, please submit the for the strice unrecognized despite data. If you know the service/version, please submit the for the strice unrecognized despite data.

SF: Or illine unrecognized despite unrec

        OS:
        ON SON SANTIIS OF MAS PODAW SANTIISLL WIN (MEDICAL PROBLEM)

        OS:
        1-FFFF WAS-FFFF WAS-FFF W
   Uptime guess: 2.522 days (since Fri Feb 1 01:56:17 2019)
   Network Distance: 0 hops
TCP Sequence Prediction: Difficulty=261 (Good luck!)
   IP ID Sequence Generation: All zeros
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
 NSE: Script Post-scanning.
Initiating NSE at 14:28
Completed NSE at 14:28, 0.00s elapsed
Initiating NSE at 14:28
Completed NSE at 14:28, 0.00s elapsed
 Completed NSE at 19:26, 0.008 elapsed Read data files from: /usr/local/bin/../share/nmap
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 178.97 seconds
Raw packets sent: 1645 (76.906KB) | Rcvd: 2235 (100.996KB)
```

5 and 6.

Witches - 20	Coding - Solved
The Race - 30	Coding - Solved
Hacker Level - 40	Coding - Solved
Gatta Catch Em All - 50	Coding - Solved
Solve Hint	