Dan Bonnett CMPSCI 381 Lab 1 Due February 4, 8:00 a.m.

Honor Code: This work is mine unless otherwise cited

Questions to be answered:

6(a). TCP Connection for SSH session:

Packet numbers 1, 2, and 3:

- 1 0.000000000 141.195.226.137 53600 141.195.226.130 ssh TCP 74 53600 > ssh [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=195941508 TSecr=0 WS=128
- 3 0.000272000 141.195.226.137 53600 141.195.226.130 ssh TCP 66 53600 > ssh [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=195941508 TSecr=37875955

<u>6(b)</u>. TCP closing for SSH session:

Packet numbers 388, 389, 390, and 391

- 388 281.183555000 141.195.226.137 53600 141.195.226.130 ssh TCP 66 53600 > ssh [FIN, ACK] Seq=7144 Ack=7032 Win=41216 Len=0 TSval=196011804 TSecr=37946251
- 389 281.183668000 141.195.226.130 ssh 141.195.226.137 53600 TCP 66 ssh > 53600 [ACK] Seq=7032 Ack=7144 Win=41600 Len=0 TSval=37946251 TSecr=196011804
- 390 281.190485000 141.195.226.130 ssh 141.195.226.137 53600 TCP 66 ssh > 53600 [FIN, ACK] Seq=7032 Ack=7145 Win=41600 Len=0 TSval=37946253 TSecr=196011804
- 391 281.190519000 141.195.226.137 53600 141.195.226.130 ssh TCP 66 53600 > ssh [ACK] Seq=7145 Ack=7033 Win=41216 Len=0 TSval=196011806 TSecr=37946253

6(c). nc commands for TCP connection:

Packet numbers 149, 150, and 151:

- 149 140.522877000 141.195.226.130 44708 141.195.226.137 italk TCP 74 44708 > italk [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=37911086 TSecr=0 WS=128
- 150 140.522923000 141.195.226.137 italk 141.195.226.130 44708 TCP 74 italk > 44708 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=1 TSval=195976639 TSecr=37911086 WS=128
- 151 140.523085000 141.195.226.130 44708 141.195.226.137 italk TCP 66 44708 > italk [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=37911086 TSecr=195976639

6(d). Closing the nc connection:

Packet numbers 352, 353, and 354:

- 352 268.276035000 141.195.226.137 italk 141.195.226.130 44708 TCP 66 italk > 44708 [FIN, ACK] Seq=44 Ack=45 Win=29056 Len=0 TSval=196008577 TSecr=37937456
- 353 268.276318000 141.195.226.130 44708 141.195.226.137 italk TCP 66 44708 > italk [FIN, ACK] Seq=45 Ack=45 Win=29312 Len=0 TSval=37943024 TSecr=196008577
- 354 268.276356000 141.195.226.137 italk 141.195.226.130 44708 TCP 66 italk > 44708 [ACK] Seq=45 Ack=46 Win=29056 Len=0 TSval=196008577 TSecr=37943024

6(e). Unencrypted data:

Packet numbers 348 and 274

348 246.004148000 141.195.226.137 italk 141.195.226.130 44708 TCP 83 italk > 44708 [PSH, ACK] Seq=27 Ack=45 Win=29056 Len=17 TSval=196003009 TSecr=37932808

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274 209.108484000 141.195.226.137 italk 141.195.226.130 44708 TCP 92 italk > 44708 [PSH, ACK] Seq=1 Ack=29 Win=29056 Len=26 TSval=195993785

TSecr=37921349

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BEnothing man how about you