COMP8505 ASSIGNMENT 1 Testing and Supporting Data

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Test#1	
Description	Run Client with -srcp flag
Steps	Start the programStart Client and Server with -srcp flag
Result	16:10:35(-)root@datacomm-192-168-0-25:Desktop\$./covert_tcp -dest 192.168.0.56 -srcp dest_port 80 -file myfile Covert TCP 1.0 (c)1996 Craig H. Rowland (crowland@psionic.com) Not for commercial use without permission. Destination Host: 192.168.0.56 Source Host : h♠ ♣ ♦ Originating Port: random Destination Port: 80 Encoded Filename: myfile Encoding Type : TCP Source Port Client Mode: Sending data. Sending Data: a Sending Data: b Sending Data: 1 Sending Data: 1 Sending Data: 2 Sending Data: 3 Sending Data: 3 Sending Data: 3 Sending Data: 3
Success	Yes

Test#2	
Description	Run Server with -srcp flag
Steps	Start the programStart Client and Server with -srcp flag
Result	10:13:25(-)root@localhost:Desktop\$./covert_tcp -source 192.168.0.25 -srcp -file myfile -server Covert TCP 1.0 (c)1996 Craig H. Rowland (crowland@psionic.com) Not for commercial use without permission. Listening for data from IP: 192.168.0.25 Listening for data bound for local port: Any Port Decoded Filename: myfile Decoding Type Is: TCP Source Port. Server Mode: Listening for data. Receiving Data: a Receiving Data: b Receiving Data: c Receiving Data: 1 Receiving Data: 1 Receiving Data: 3 Receiving Data: 3 Receiving Data: 3 Receiving Data: 3

Success Yes

Test#3	
Description	Transfer Character 'a'
Steps	 Start the program Start Client and Server with -srcp flag
Result	
Success	Yes

Test#4	
Description	Transfer Character 'b'
Steps	 Start the program Start Client and Server with -srcp flag

Result	No. Time 54 28.823673727 58 29.823921349 59 30.824189854	Source 192.168.0.25 192.168.0.25	Destination 192.168.0.56 192.168.0.56 192.168.0.56	Protocol TCP TCP TCP	Length Info 60 24832 → 80 [SYN 60 25088 → 80 [SYN 60 25344 → 80 [SYN	N] Seq=0 Win=512	Len=0
	63 31.824433471 65 32.824680888 67 33.824968231 72 34.825189677 Frame 58: 60 bytes Ethernet II, Src: D Internet Protocol V	192.168.0.25 192.168.0.25 192.168.0.25 192.168.0.25 on wire (480 bits) ell_dc:ff:cf (98:9	192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 , 60 bytes captured (0:96:dc:ff:cf), Dst:	TCP TCP TCP TCP TCP 480 bits) on Dell_dc:e4:c	60 12544 - 80 [SYN 60 12800 - 80 [SYN 60 13056 - 80 [SYN 60 2560 - 80 [SYN]	N] Seq=0 Win=512 N] Seq=0 Win=512 N] Seq=0 Win=512 N] Seq=0 Win=512 L	Len=0 Len=0 Len=0
	Transmission Contro Source Port: 250 Destination Port [Stream index: 1 [TCP Segment Len Sequence number: [Next sequence n Acknowledgment n	l Protocol, Src Po 88 : 80] : 0] 0 (relative seumber: 0 (relative) er Length: 20 byte: N) er 512 ow size: 512] [unverified]:	quence number) ive sequence number)	80, Seq: 0,	Len: 0		
	98 99 96 dc e4 6 9010 99 28 8c 99 90 9020 90 38 62 90 90 9030 92 90 d6 9a 90 6	60 b4 17 00 00 00 00 00 00 00 00 00 00 00 00 00	a8 00 19 c0 a8 ·(·· 00 00 00 50 02 ·8 <mark>b·</mark>	E. .@ m P P.			
Success	Yes						

Test#5	
Description	Transfer Character 'c'
Steps	 Start the program Start Client and Server with -srcp flag

Result		Destination 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56	TCP 6 Selection on integration of the content of the cont	50 24832 - 80 [S) 50 25988 - 80 [S) 50 25344 - 80 [S) 50 12544 - 80 [S) 50 12800 - 80 [S) 50 13056 - 80 [S) 60 2560 - 80 [SY) erface 0 8:90:96:dc:e4:c6	YN] Seq=0 Win=512 Len=0 N] Seq=0 Win=512 Len=0 N] Seq=0 Win=512 Len=0
	Acknowledgment number: 0 0101 = Header Length: 20 t Flags: 0x002 (SYN) Window size value: 512 [Calculated window size: 512] Checksum: 0x8891 [unverified] [Checksum 5tatus: Unverified] Urgent pointer: 0 [Timestamps]	ff cf 08 00 45 00	· · · · · · · · · · · E ·		
	10010 00 28 5c 00 00 00 40 06 9d 2e 10020 00 38 38 30 00 05 00 12 1 00 00 10030 02 00 88 91 00 00 00 00 00 00 10030 10030 10030 10030 10030 10030 10030 10030 10030 10030 10030	00 00 00 00 50 02 -80-	@		
Success	Yes				

Test#6	
Description	Transfer Character '1'
Steps	 Start the program Start Client and Server with -srcp flag

Result	ip.dst == 192.168.0.56.8 No. Time	Source 192.168.0.25 192.168.0.25 192.168.0.25 192.168.0.25 192.168.0.25 192.168.0.25 192.168.0.25 on wire (480 bits)	Destination 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56 192.168.0.56	TCP	60 25088 - 80 60 25344 - 80 60 12544 - 80 60 12800 - 80 60 13056 - 80 60 2560 - 80 interface 0	[SYN] Seq=0 [SYN] Seq=0 [SYN] Seq=0 [SYN] Seq=0 [SYN] Seq=0 [SYN] Seq=0 W	Win=512 Len=0 Win=512 Len=0 Win=512 Len=0 Win=512 Len=0 Win=512 Len=0 Win=512 Len=0
	Transmission Contro Source Port: 122 Destination Port [Stream index: 3 [TCP Segment Ler Sequence number: [Next sequence Acknowledgment r	pl Protocol, Src Pool (4) 1 1 1 1 1 1 1 1 1	quence number) [ve sequence number)]		en: 0		
	98 90 96 dc e4 9010 90 28 67 90 90 9020 90 38 31 90 90 9030 92 90 70 af 90 10 10 10 10 10 10 10 10 10 10 10 10 10 1	50 4b 03 00 00 00 00 00 00 00 00 00 00 00	8 00 19 c0 a8 ·(o·· 00 00 00 50 02 ·81··	Е. @ркр.			
Success	Yes						

Test#7	
Description	Transfer Character '2'
Steps	 Start the program Start Client and Server with -srcp flag

Result							
	[Next sequence number: 0 (relative sequence number)] Acknowledgment number: 0 0101 = Header Length: 20 bytes (5) Flags: 0x002 (SYN) Window size value: 512 [Calculated window size: 512] Checksum: 0x3c8f [unverified] [Checksum: 0x3c8f [unverified] Urgent pointer: 0 [Timestamps]						
	98 90 96 dc e4 c 991 90 28 e2 90 90 60 9020 90 38 32 90 90 50 9030 92 90 3c 8f 90 6	0 7e 23 00 00 00 00 00 00 00 00 00 00 00 00 00	a8 00 19 c0 a8 ·(··· 00 00 00 50 02 ·82··	E			
Success	Yes						

Test#8			
Description	Transfer Character '3'		
Steps	 Start the program Start Client and Server with -srcp flag 		

