Assignment 2 Maura Peterson

Part 1

- 1. tcp.port==465. I chose this filter because "smtp.gmail.com:465" specified port 465 because that is where the port is located.
- 2. Port 25 is the standard port for SMTP. This port is blocked by a lot of IPs because it is used for spam a lot. 465 is used to connect with SSL.

3.

- a. echo -ne username | base64
 - i. This command is used to encode your username which will be needed because we are using SSL which is encrypted.
- b. echo -ne password | base64
 - i. This command is used to encode your password which will be needed because we are using SSL which is encrypted.
- c. openssl s_client -crlf -ign_eof -connect smtp.gmail.com:465
 - i. This line connects to smtp.gmail.com at port 465
 - ii. The -crlf converts LF from the terminal into CRLF
 - iii. The -ing_eof Ignores input of eof
- d. helo gmail.com
 - i. Identifies the domain name of the sending host as gmail.com to smtp.
- e. auth login
 - i. This allows you to login to your account.
 - ii. You then copy your encoded username
 - iii. Then your encoded password
- f. mail from: <<u>username@gmail.com</u>>
 - i. Initiate a message transfer, from username@gmail.com
- g. rcpt to: <username@gmail.com>
 - i. Identifies the addressee as username@gmail.com
- h. data
 - i. Send the data line by line
- i. Subject:
 - i. Enter the subject of the email
- j. Email text goes here
 - i. Enter the body of the email
- k. .
- i. Finish and send the email
- I. quit
 - i. end the connection.
- 4. 15 packets, starting with the initial connection Then the client hello, server hello/change cipher spec, application data from the server, then change cipher spec/ application data from the client, with acknowledgments.
- 5. Port: 33368, this port stayed the same the whole time.
- 6. I initiate the fin, then the server sends a fin ack and its own fin, then I send a fin ack and then we both terminate.

1							
	1 0.000000	192.168.0.11	142.250.125.109	TCP			
A Section Column							
A STATE Column							64256 Len=0 TSval=1968637713 TSecr=3521417594
A SATURE COLUMN C							
1.00 1.00							
## 100 100					66 465 + 33368	B [ACK] Seq=1 Ack=307 Wir	n-66816 Len-0 TSval-3521417610 TSecr-1968637714
## 100 100	7 0.031167	142.250.125.109		TLSv1.3	1484 Server Hell	lo, Change Cipher Spec	
The color of the	8 0.031375	192.168.0.11	142.250.125.109	TCP	66 33368 → 465	5 [ACK] Seq=307 Ack=1419	Win=64128 Len=0 TSval=1968637729 TSecr=3521417610
The column The	9 0.031822	142.250.125.109			104 [TCP Previo	ous segment not captured] 465 → 33368 [PSH, ACK] Seq=4255 Ack=307 Win=66816 Len=38 TSval=3521417610 TSecr=1968637714 [TCP segment of a reassembled PDU]
The column The	10 0.031822				1484 [TCP Out-Of	f-Order] 465 + 33368 [PSF	H, ACK] Seq=1419 Ack=307 Win=66816 Len=1418 TSval=3521417610 TSecr=1968637714 [TCP segment of a reassembled PDU]
1	11 0.031983	192,168,0,11	142,250,125,109		78 FTCP Dup AC	CK 8#11 33368 + 465 [ACK]	1 Seg=307 Ack=1419 Win=64128 Len=0 TSval=1968637730 TSecr=3521417610 SLE=4255 SRE=4293
Column C	12 0.032013	192,168,0,11	142,250,125,109	TCP	78 33368 + 465	FACK] Seg=307 Ack=2837	Win-64128 Len-0 TSval-1968637730 TSecr-3521417610 SLE-4255 SRE-4293
10.00000000000000000000000000000000000					1484 [TCP Out-01	f-Order1 465 + 33368 [ACK	K) Seg-2837 Ack-387 Win-66816 Len-1418 TSval-3521417618 TSecr-1968637714
15 15 15 15 15 15 15 15	14 0.032313		142.250.125.109	TCP			
15 15 15 15 15 15 15 15							
17 18 18 18 18 18 18 18							
13 13 13 13 13 13 13 13							
10.00 10.0					104 Application	Deta	#III-04120 Cell-0 13981-1300037735 13eCt -3321417040
December							
Section Sect							11 C400 L- A T0-1 ACCCT4477 TC T04474040
Section Sect							Win-64128 Len-0 5vai-19686/113/
Section Sect					100 Application	n Data	
10 12 12 13 13 13 13 13 13							
Section Sect			142.250.125.109				Win=64128 Len=0 TSval=1968755896 TSecr=3521535777
The column The							
Mile 10,100 Mile 10,000 Mile 10,00							
10.00000000000000000000000000000000000							Win-64128 Len-0 TSval-1968766723 TSecr-3521546604
Mat 1, No. 200 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,				TLSv1.3			
### 15.000 12.000 12.000 10.000					66 465 → 33368	[ACK] Seq=5043 Ack=539	Win=66816 Len=0 TSval=3521548771 TSecr=1968768871
150 11.03500 10.0310.04.01 10.03.01.03.01 10.05 10.05.01		142.250.125.109	192.168.0.11	TLSv1.3	237 Application	n Data	
April 19, 1985 15,	385 131.353208	192.168.0.11	142.250.125.109	TCP	66 33368 → 465	5 [ACK] Seq=539 Ack=5214	Win=64128 Len=0 TSval=1968769053 TSecr=3521548933
63 11 0.0022 142.294.15.10 132.104.11 100				TLSv1.3	100 Application	Data	
Col. 10.000 10.				TCP			Win-66816 Len-0 TSval-3521557146 TSecr-1968777251
## 151-166-16 15					106 Application	n Data	
## SECOND 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.00000 10.00000 10.0000 10.0000 10.0000 10.00000 10.00000 10.0000							Win=64128 Len=0 TSval=1968777266 TSecr=3521557147
### 141.000 10.100							
## 10-18-18-19 10-18-18-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19 10-18-19-19-19-19-19-19-19-19-19-19-19-19-19-							
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460 16.00							
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60 14.07.7179 14.726.17.189 15.106.11 15.20.17.189 17.20.17.189 17.20.17.189 17.20.17.189 17.20.17.189 17.20.189 17.20.189 17.20.1					106 Application	Data	
Style="bloom: 150%;	449 148.640440						Win=66816 Len=0 TSval=3521566221 TSecr=1968786321
60.184.77327 \$0.186.7841 \$1.02.00.11.08 \$77				TLSv1.3			
177 177				TCP			Win=64128 Len=0 TSval=1968786471 TSecr=3521566352
7.77 7.70				TLSv1.3			
79 22,00021 181,726,112.10 191,706,1	738 222.902245	142.250.125.109	192.168.0.11	TCP			Win=66816 Len=0 TSval=3521640484 TSecr=1968860589
299.21.98866 197.108.6.11 147.09.13.1.89 17					128 Application	Data	
1277,79698 19-186-11 142-78-17-18-19 150-13 12-78-18-18-19 150-13 12-78-18-18-19-18-19 150-13 12-78-18-18-19-18-18-18-18-18-18-18-18-18-18-18-18-18-	740 222,903084	192,168,0,11	142,250,125,109	TCP	66 33368 → 465	[ACK] Seg=711 Ack=5398 [Win=64128 Len=0 TSval=1968869694 TSecr=3521649484
151 27.70775 147.70715.199 157.70775 147.70715.199 157.105.119 157					122 Application	Data	
### 28-0021 101-18-11 101-29-11-19-19 107 101-19-11-19-19 101-19-11-19-19-19-19-19-19-19-19-19-19-19							
1869 1869							Uin-64129 an-9 TSyx1-1069011466 TSxxx-2521601247
1889 281,07845 231,078,153.00 231,188.11 100-1 50 68 \$ - 1308 ECS Septima Act-Style Win-Media Level Total-152/170205 Total-152/1							WAIT-04220 CENTO 13VEA-13VEATA
1909 286, 1964 10, 12, 12, 15, 15, 16, 16 11 12, 12, 15, 15, 16 13 139, 496, 126, 15 139, 46, 15, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146, 16, 16 139, 146,	1000 200.033222						Ni-66816 1-1-A 75-v1-3531796316 75-v1068036317
1802-1806-1801 1802-1806-181 1802-181							MIN-00010 CEN-0 15V41-3521/00230 15ELT-190032033/
1113 84.07168 192.168.0-11 192				TESV1.5			W. CARD
1111 818-977-197 1427-1981-198-199 1427-1981-198-1991-1991-1991-1991-1991-1991							MIN-04120 LCN-0 13V41-1700720370 13CL1-3321/004//
1111 38 97.7312 192.168.8.11 152.768.251.251.09 152.168.6.11 170 150 150 150 150 150 150 150 150 150 15							
1115 91 30-216-30 1 102-16-6-11 102-16-15-10 102-16-6-11 102-16-15-10 102-16-16-11 102-16-16-16-16-16-16-16-16-16-16-16-16-16-							Win=bo816 Len=0 TSval=3521721653 TSecr=1968941759
1189 1187	1114 309.721725						
1121 13.7.08609 142.759.151.160 150.186.0.11 TC					66 465 → 33368	[ACK] Seq=5523 Ack=869 I	Win=66816 Len=0 TSval=3521727317 TSecr=1968947424
1121 313.000797 142.759.115.109 192.168.0.11 150.13 150.159.109 192.168.0.11 150.13 150.159.109 192.168.0.11 142.259.125.109 17C 66 33368 4 465 [ACK] Seq=5136 Ack-5709 kin-64128 Len-0 Tsval-196984878 TSccr-3521298499 192.168.0.11 142.259.125.109 17C 66 4655 33368 4 465 [ACK] Seq=5386 Ack-5709 kin-64128 Len-0 Tsval-196984878 TSccr-3521298999 192.168.0.11 142.259.125.109 17C 66 4655 33368 4 465 [ACK] Seq=5386 Ack-5709 kin-64128 Len-0 Tsval-196984878 TSccr-3521298999 192.168.0.11 142.259.125.109 17C 66 4655 33368 Ack-1169 kin-64128 Len-0 Tsval-196996874 TSccr-3521919998 143 493.334746 192.168.0.11 142.259.125.109 17C 66 4655 33368 Ack-5704 kin-64128 Len-0 Tsval-196996874 TSccr-3521919998 143 493.334746 192.168.0.11 142.259.125.109 17C 66 4655 33368 Ack-5704 kin-64128 Len-0 Tsval-196996874 TSccr-3521919998 143 493.334746 192.168.0.11 142.259.125.109 17C 66 4655 33368 Ack-5704 kin-64128 Len-0 Tsval-196996874 TSccr-3521919998 143 493.334746 192.168.0.11 142.259.125.109 17CP 66 4655 33368 Ack-5704 kin-64128 Len-0 Tsval-196996874 TSccr-3521918966 TSccr-3521919998 143 493.334746 192.168.0.11 142.259.125.109 17CP 66 4655 33368 Ack-5704 kin-64128 Len-0 Tsval-196996874 TSccr-3521918966 TSccr-3521919998 143 493.334746 192.168.0.11 142.259.125.109 17CP 66 4655 33368 Ack-5704 kin-64128 Len-0 Tsval-196996874 TSccr-3521919988 143 493.334746 192.168.0.11 142.259.125.109 17CP 66 4655 33368 Ack-1169 kin-66816 Len-0 Tsval-196996874 TSccr-3521919988 143 493.334746 192.168.0.11 142.259.125.109 17CP 66 4655 33368 Ack-1169 kin-66816 Len-0 Tsval-196996874 TSccr-3521919988 143 493.334746 192.168.0.11 142.259.125.109 17CP 66 4655 33368 Ack-1169 kin-66816 Len-0 Tsval-1969913029 TSccr-3521919988 1535 515.46860 192.168.0.11 142.259.125.109 17CP 66 4655 33368 Ack-1169 kin-66816 Len-0 Tsval-196913029 TSccr-352193068 1535 515.46860 192.168.0.11 142.259.125.109 TCP 66 4655 33368 Ack-1169 kin-66816 Len-0 Tsval-1969131029 TSccr-3521933065 TSccr-3521933065 TSccr-3521933065 TSccr-3521933065 TSccr-3521933065 TSccr-3521933065 TSccr-3521933065 TSccr-35							
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1257 877.162697 192.168.0.11 192.161.0.11 1551.3 197.162.0 192.161.0.11 1551.3 192.162.0 192.162	1232 366.791472	142.250.125.109	192.168.0.11	TLSv1.3	139 Application	Data	
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1258 987.177672 142.256.125.100 124.256.125.100 17	1257 387,162997				124 Application	Data	
1299 411.09902 142.250.125.100 129.168.0.11 142.250.125.100 120.168.0.11 142.250.125.10	1258 387.177672		192,168.0.11	TLSv1.3			
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1292 411.09962 142.296.125.100 192.168.0.11 142.295.125.100 175.13 142.295.125.100 129.416.011 142.295.125.100 129.416.011 142.295.125.100 129.416.011 142.295.125.100 129.416.011 142.295.125.100 142							
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1322 431.039109 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=1103 Ack=5875 Win=64128 Len=0 TSval=1969068742 TSecr=3521848621 1430 493.261556 192.168.0.11 142.250.125.109 TLSv1.3 94 Application Data 1431 493.268825 142.250.125.109 192.168.0.11 TLSv1.3 129 Application Data 1435 493.324746 192.168.0.11 142.250.125.109 TCP 66 465 + 33368 [ACK] Seq=5875 Ack=1131 Win=66816 Len=0 TSval=3521910864 TSecr=1969130965 1434 493.324722 142.250.125.109 192.168.0.11 TLSv1.3 129 Application Data 1445 549.324746 192.168.0.11 142.250.125.109 TCP 66 465 + 43386 [ACK] Seq=113 Ack=5938 Win=64128 Len=0 TSval=1969131029 TSecr=3521910908 1484 561.908562 192.168.0.11 142.250.125.109 TLSv1.3 104 Application Data 1485 549.324746 192.168.0.11 142.250.125.109 TLSv1.3 104 Application Data 1485 549.324746 192.168.0.11 142.250.125.109 TLSv1.3 104 Application Data 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521919596 TSecr=1969139702 1514 595.667176 192.168.0.11 142.250.125.109 TLSv1.3 104 Application Data 1515 595.621217 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 1529 588.253407 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1535 588.498946 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1535 588.498946 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=3521933062 TSecr=1969153168 1535 515.448080 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=3521933064 1535 515.481851 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=3521933064 1535 515.482121 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=3521933065 TSecr=3521933065 TSecr=35219					104 4m 3	Date	**************************************
1322 431. 039109 192. 168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=1103 Ack=5875 Win=64128 Len=0 TSval=1969068742 TSecr=3521848621 1430 493. 261550 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5875 Ack=1131 Win=66816 Len=0 TSval=3521910864 TSecr=1969130965 1434 493. 324552 4142. 250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5875 Ack=1131 Win=66816 Len=0 TSval=3521910864 TSecr=1969130965 1434 493. 324542 412. 250.125.109 192.168.0.11 TCP 66 455 + 33368 [ACK] Seq=1131 Ack=5938 Win=64128 Len=0 TSval=1969131029 TSecr=3521910908 1448 501.998562 192.168.0.11 142.250.125.109 TLSv1.3 104 Application Data 1485 502.012725 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521919596 TSecr=196913702 1514 505.607176 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521919596 TSecr=1969143311 1529 508.239219 192.168.0.11 142.250.125.109 TLSv1.3 91 Application Data 1530 508.259407 142.250.125.109 192.168.0.11 TCP 66 465 + 33386 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521923205 TSecr=1969145943 1135 508.498946 142.250.125.109 192.168.0.11 TCP 66 465 + 33386 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1135 508.498946 142.250.125.109 192.168.0.11 TLSv1.3 140 Application Data 1530 508.259407 142.250.125.109 192.168.0.11 TLSv1.3 140 Application Data 1535 515.464960 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=3521933062 TSecr=3521926083 1535 515.464960 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1535 515.48196 192.168.0.11 TCP 66 33368 465 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933064 TSecr=3521933064 1536 515.48186 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064 1536 515.48186 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 FIN, ACK] Seq=6090 Ack							
1430 493, 261559 192, 168.0.11 142,250,125,109 17	1521 451.038869	142.250.125.109	192.168.0.11	ILSVI.3	14/ Application	oara	
1430 493, 261559 192, 168.0.11 142,250,125,109 17							
1430 493, 261559 192, 168.0.11 142,250,125,109 17	1322 431	039109 102	.168.0.11	142 250	125,109	TCP	66 33368 + 465 [ACK] Seg=1103 Ack=5875 Win=64128 Len=0 TSval=1969068742 TSecr=3521848621
1431 493.280835 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5875 Ack=1131 Win=66816 Len=0 TSval=3521910864 TSecr=1969130965 1434 493.324522 142.250.125.109 192.168.0.11 TLSv1.3 129 Application Data 1485 502.012725 142.250.125.109 192.168.0.11 TCP 66 33368 + 465 [ACK] Seq=131 Ack=5938 Win=64128 Len=0 TSval=1969131029 TSecr=3521910908 1485 502.012725 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=352191596 TSecr=1969139702 1514 595.607176 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=352191596 TSecr=1969139702 1515 595.621217 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 1529 508.239219 192.168.0.11 142.250.125.109 TLSv1.3 91 Application Data 1530 508.253407 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1531 508.499846 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1532 508.499538 192.168.0.11 142.250.125.109 TCP 66 33568 + 465 [ACK] Seq=1224 Ack=6012 Win=66816 Len=0 TSval=1969146203 TSecr=3521926083 1535 515.464060 192.168.0.11 142.250.125.109 TCP 66 33568 + 465 [ACK] Seq=1224 Ack=6012 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1537 515.481451 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1537 515.481451 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064 1537 515.481808 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 FACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933065 TSecr=1969153168 1540.514 192.168.0.11 142.250.125.109 TCP 63 3368 + 465 [TN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933065 TSecr=1969153168 1540.514 192.168.0.11 142.250.125.109 TCP 63 3368 + 465 [TN, ACK]						Para Transport Control	
1434 493.324522 142.250.125.109 192.168.0.11 TLSV1.3 129 Application Data 1435 493.324746 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=131 Ack=5938 Win=64128 Len=0 TSval=1969131029 TSecr=3521910908 1485 502.012725 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521919596 TSecr=1969139702 1515 595.621217 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521919596 TSecr=1969139702 1515 595.621217 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 1529 598.239219 192.168.0.11 142.250.125.109 TLSV1.3 140 Application Data 1535 598.498946 142.250.125.109 192.168.0.11 TLSV1.3 140 Application Data 1535 598.498946 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1535 598.498946 142.250.125.109 192.168.0.11 TLSV1.3 140 Application Data 1535 515.464606 192.168.0.11 142.250.125.109 TCP 66 465 + 33368 [ACK] Seq=6912 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 1535 515.464606 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1535 515.4881451 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064 1535 515.4881451 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064 1535 515.4881851 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933065 TSecr=1969153168 154.682159 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153168 154.682159 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=6090 Win=64128 Len=0 TSval=3521933065 TSecr=3521933064 1545 [ACK] Seq=6012 Ack=6091 Win=64128 Len=0 TSval=3521933065 TSecr=1969153168 154.68151.482121 192.168.0.11 TCP 66 465 + 33368 [ACK]	1430 493.	261550 192	.168.0.11	142.250.	125.109	TLSv1.3	94 Application Data
1434 493.324522 142.250.125.109 192.168.0.11 TLSV1.3 129 Application Data 1435 493.324746 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=131 Ack=5938 Win=64128 Len=0 TSval=1969131029 TSecr=3521910908 1485 502.012725 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521919596 TSecr=1969139702 1515 595.621217 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521919596 TSecr=1969139702 1515 595.621217 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 1529 598.239219 192.168.0.11 142.250.125.109 TLSV1.3 140 Application Data 1535 598.498946 142.250.125.109 192.168.0.11 TLSV1.3 140 Application Data 1535 598.498946 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1535 598.498946 142.250.125.109 192.168.0.11 TLSV1.3 140 Application Data 1535 515.464606 192.168.0.11 142.250.125.109 TCP 66 465 + 33368 [ACK] Seq=6912 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 1535 515.464606 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1535 515.4881451 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064 1535 515.4881451 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064 1535 515.4881851 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933065 TSecr=1969153168 154.682159 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153168 154.682159 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=6090 Win=64128 Len=0 TSval=3521933065 TSecr=3521933064 1545 [ACK] Seq=6012 Ack=6091 Win=64128 Len=0 TSval=3521933065 TSecr=1969153168 154.68151.482121 192.168.0.11 TCP 66 465 + 33368 [ACK]	1431 493	280835 142	.250.125 100	192 169	0.11	TCP	66 465 - 33368 [ACK] Seg=5875 Ack=1131 Win=66816 Len=0 TSval=3521010864 TSecg=1060120065
1435 493.324746 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=1131 Ack=5938 Win=64128 Len=0 TSval=1969131029 TSecr=3521910908 1485 592.012725 142.250.125.109 192.168.0.11 TCP 66 455 + 33368 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=352191596 TSecr=196913702 1514 595.607176 192.168.0.11 142.250.125.109 TLSv1.3 96 Application Data 1535 586.621217 142.250.125.109 192.168.0.11 TCP 66 465 + 33386 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 1529 508.239219 192.168.0.11 142.250.125.109 TLSv1.3 91 Application Data 1530 508.253407 142.250.125.109 192.168.0.11 TCP 66 465 + 333368 [ACK] Seq=5938 Ack=1242 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1432.250.125.109 192.168.0.11 TLSv1.3 140 Application Data 1532 508.499846 142.250.125.109 192.168.0.11 TLSv1.3 140 Application Data 1535 515.464060 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 1535 515.464060 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1535 515.468151 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1535 515.488151 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064 1536 515.481261 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064 1536 515.481261 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153168 1546 515.482125 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=3521933065 T					5.55		
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1484 501.998562 192.168.0.11 142.250.125.109 TLSV1.3 104 Application Data 1485 502.012725 142.250.125.109 192.168.0.11 TCP 66 465 + 33386 [ACK] Seq=5938 Ack=1169 Win=66816 Len=0 TSval=3521919596 TSecr=1969139702 1514 505.607176 192.168.0.11 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 1529 508.253407 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 1539 508.253407 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 1531 508.498946 142.250.125.109 192.168.0.11 TLSV1.3 140 Application Data 1535 515.464060 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 1535 515.464060 192.168.0.11 142.250.125.109 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1537 515.481451 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1537 515.481808 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=1252 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064 1539 515.481808 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064 1539 515.481808 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [TN], ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933065 TSecr=1969153168 1540 515.482120 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [TN], ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153168 1540 515.482120 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [TN], ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933065						TCD	
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1514 505.607176 192.168.0.11 142.250.125.109 17 TCV1.3 96 Application Data 1515 505.621217 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 1539 508.253407 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521923205 TSecr=1969145943 1531 508.499934 142.250.125.109 192.168.0.11 TLSV1.3 140 Application Data 1532 508.499938 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 1535 515.406400 192.168.0.11 142.250.125.109 TLSV1.3 94 [Application Data 1536 515.478403 142.250.125.109 192.168.0.11 TCP 66 455 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 1537 515.481451 142.250.125.109 192.168.0.11 TLSV1.3 144 Application Data 1538 515.481796 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=1252 Ack=6090 Win=64128 Len=0 TSval=3521933065 TSecr=1969153168 1537 515.481808 142.250.125.109 192.168.0.11 TCP 66 33368 + 465 [ACK] Seq=1252 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064 1539 515.481808 142.250.125.109 192.168.0.11 TCP 66 455 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153168 1540 1540 1540 1540 1540 1540 1540 1540	1435 493.		.168.0.11	142.250.			
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1538 515.481796 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [ACK] Seq=1252 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064 1539 515.481808 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153168 1540 515.482121 192.168.0.11 142.250.125.109 TLSV1.3 90 Application Data 1541 515.482159 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [FIN, ACK] Seq=1276 Ack=6091 Win=64128 Len=0 TSval=1969153186 TSecr=3521933065	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1531 508. 1532 508. 1535 515.	.998562 192 .012725 142 .607176 192 .621217 142 .239219 192 .253407 142 .498946 142 .499538 192 .464060 192	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .168.0.11 .168.0.11	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 142.250.	125.109 0.11 125.109 0.11 0.11 125.109 125.109	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data
1539 515.481808 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153168 1540 515.482121 192.168.0.11 142.250.125.109 TLSv1.3 90 Application Data 1541 515.482159 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [FIN, ACK] Seq=1276 Ack=6091 Win=64128 Len=0 TSval=1969153186 TSecr=3521933065	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1531 508. 1532 508. 1535 515.	.998562 192 .012725 142 .607176 192 .621217 142 .239219 192 .253407 142 .498946 142 .499538 192 .464060 192 .478403 142	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .168.0.11 .168.0.11 .250.125.109	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 142.250. 142.250.	125.109 0.11 125.109 0.11 0.11 125.109 125.109 0.11	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168
1539 515.481808 142.250.125.109 192.168.0.11 TCP 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153168 1540 515.482121 192.168.0.11 142.250.125.109 TLSv1.3 90 Application Data 1541 515.482159 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [FIN, ACK] Seq=1276 Ack=6091 Win=64128 Len=0 TSval=1969153186 TSecr=3521933065	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1531 508. 1532 508. 1535 515.	.998562 192 .012725 142 .607176 192 .621217 142 .239219 192 .253407 142 .498946 142 .499538 192 .464060 192 .478403 142	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .168.0.11 .168.0.11 .250.125.109	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 142.250. 142.250.	125.109 0.11 125.109 0.11 0.11 125.109 125.109 0.11	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 144 Application Data
1540 515.482121 192.168.0.11 142.250.125.109 TLSv1.3 90 Application Data 1541 515.482159 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [FIN, ACK] Seq=1276 Ack=6091 Win=64128 Len=0 TSval=1969153186 TSecr=3521933065	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1531 508. 1532 508. 1535 515. 1536 515.	.998562 192 .012725 142 .607176 192 .621217 142 .239219 192 .253407 142 .498946 142 .499538 192 .464060 192 .478403 142 .481451 142	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .250.125.109 .168.0.11 .250.125.109 .250.125.109	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 142.250. 142.250. 192.168.	125.109 0.11 125.109 0.11 0.11 125.109 125.109 0.11 0.11	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 144 Application Data
1540 515.482121 192.168.0.11 142.250.125.109 TLSv1.3 90 Application Data 1541 515.482159 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [FIN, ACK] Seq=1276 Ack=6091 Win=64128 Len=0 TSval=1969153186 TSecr=3521933065	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1531 508. 1532 508. 1533 515. 1536 515.	.998562 192 .012725 142 .607176 192 .621217 142 .239219 192 .253407 142 .498946 142 .499538 192 .464060 192 .478403 142 .481451 142 .481451 142	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .250.125.109	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 142.250. 142.250. 192.168. 192.168. 192.168.	125.109 0.11 125.109 0.11 0.11 125.109 125.109 0.11 0.11 125.109	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 144 Application Data 66 33368 + 465 [ACK] Seq=1252 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064
1541 515.482159 192.168.0.11 142.250.125.109 TCP 66 33368 + 465 [FIN, ACK] Seq-1276 Ack-6091 Win-64128 Len-0 TSval-1969153186 TSecr-3521933065	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1531 508. 1532 508. 1533 515. 1536 515.	.998562 192 .012725 142 .607176 192 .621217 142 .239219 192 .253407 142 .498946 142 .499538 192 .464060 192 .478403 142 .481451 142 .481451 142	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .250.125.109	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 142.250. 142.250. 192.168. 192.168. 192.168.	125.109 0.11 125.109 0.11 0.11 125.109 125.109 0.11 0.11 125.109	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 144 Application Data 66 33368 + 465 [ACK] Seq=1252 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064
	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1531 508. 1532 508. 1535 515. 1536 515. 1537 515. 1538 515.	.998562 192 .012725 142 .012725 142 .0607176 192 .0521217 142 .239219 192 .253407 142 .498946 142 .499538 192 .464060 192 .478403 142 .481451 142 .481796 192 .481808 142	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .168.0.11 .168.0.11 .250.125.109 .250.125.109 .250.125.109 .168.0.11	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 142.250. 142.250. 192.168. 192.168. 142.250.	125.109 0.11 125.109 0.11 0.11 125.109 125.109 0.11 0.11 125.109 0.11	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TCP TCP TCP	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 144 Application Data 66 33368 + 465 [ACK] Seq=6012 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=1969153186 TSecr=3521933064
	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1532 508. 1532 515. 1536 515. 1538 515. 1538 515.	998562 192 012725 142 607176 192 6621217 142 239219 192 253407 142 4498946 142 4499538 192 4464060 192 4478403 142 481451 142 481451 142 481486 142	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .168.0.11 .168.0.11 .250.125.109 .250.125.109 .250.125.109 .168.0.11	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 192.168. 142.250. 192.168. 142.250. 192.168. 142.250.	125.109 0.11 125.109 0.11 0.11 125.109 125.109 0.11 0.11 125.109 0.11 125.109 0.11	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TCSv1.3 TCP TCP TLSv1.3	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 144 Application Data 66 33368 + 465 [ACK] Seq=6125 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153161
152.100.0.11 142.250.125.105.0.11 147 00 40.3 35.50 [M3] 364-0051 M1H-0 16H-0	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1532 508. 1532 515. 1536 515. 1538 515. 1538 515.	998562 192 012725 142 607176 192 6621217 142 239219 192 253407 142 4498946 142 4499538 192 4464060 192 4478403 142 481451 142 481451 142 481486 142	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .168.0.11 .168.0.11 .250.125.109 .250.125.109 .250.125.109 .168.0.11	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 192.168. 142.250. 192.168. 142.250. 192.168. 142.250.	125.109 0.11 125.109 0.11 0.11 125.109 125.109 0.11 0.11 125.109 0.11 125.109 0.11	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TCSv1.3 TCP TCP TLSv1.3	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 144 Application Data 66 33368 + 465 [ACK] Seq=6125 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153161
	1435 493. 1484 501. 1485 502. 1514 505. 1515 505. 1529 508. 1530 508. 1531 508. 1532 515. 1536 515. 1536 515. 1538 515. 1538 515. 1538 515. 1538 515.	998562 192 012725 142 607176 192 621217 142 239219 192 2554407 142 489538 192 464660 192 4784403 142 481451 142 481796 192 481888 142 481211 192 482125 192	.250.125.109 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .250.125.109 .250.125.109 .168.0.11 .168.0.11 .250.125.109 .168.0.11 .250.125.109 .168.0.11	192.168. 142.250. 192.168. 142.250. 192.168. 192.168. 142.250. 192.168. 142.250. 192.168. 142.250. 192.168.	125.109 0.11 125.109 0.11 0.11 0.11 125.109 125.109 0.11 0.11 125.109 0.11 125.109 125.109	TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TLSv1.3 TCP TCP TCP TCP TCP TCP	96 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1199 Win=66816 Len=0 TSval=3521923205 TSecr=1969143311 91 Application Data 66 465 + 33368 [ACK] Seq=5938 Ack=1224 Win=66816 Len=0 TSval=3521925837 TSecr=1969145943 140 Application Data 66 33368 + 465 [ACK] Seq=1224 Ack=6012 Win=64128 Len=0 TSval=1969146203 TSecr=3521926083 94 [Application Data 66 465 + 33368 [ACK] Seq=6012 Ack=1252 Win=66816 Len=0 TSval=3521933062 TSecr=1969153168 144 Application Data 66 33368 + 465 [ACK] Seq=1252 Ack=6090 Win=64128 Len=0 TSval=1969153186 TSecr=3521933064 66 465 + 33368 [FIN, ACK] Seq=6090 Ack=1252 Win=66816 Len=0 TSval=3521933065 TSecr=1969153166 90 Application Data

```
→ C 🏠 🔓 api.github.com/repos/Public-Repositories/Rocket.Chat/commits
      sha": "ef94c08b9e8399603e8365138504b6654d47b704",
      'node_id": "C_kwDOGnP2C9oAKGVmOTRjMDhiOWU4Mzk5NjAzZTgzNjUxMzg1MDRiNjY1NGQ@N2I3MDQ",
     "commit": {
        "author": {
            "name": "Matheus Barbosa Silva",
             'email": "36537004+matheusbsilva137@users.noreply.github.com",
            "date": "2021-12-03T21:38:04Z"
         "committer": {
    "name": "GitHub",
            "email": "noreply@github.com",
            "date": "2021-12-03T21:38:04Z"
         "message": "Fix inactive user creation (#23859)",
         "tree": {
             "sha": "56cc284684d2d0b0f4ed97a893b7633d6d07d0dc",
            "url": "https://api.github.com/repos/Public-Repositories/Rocket.Chat/git/trees/56cc284684d2d0b0f4ed97a893b7633d6d07d0dc"
         "url": "https://api.github.com/repos/Public-Repositories/Rocket.Chat/git/commits/ef94c08b9e8399603e8365138504b6654d47b704",
         "comment count": 0,
         verification": {
            "verified": true,
            "reason": "valid",
            "signature": "-----BEGIN PGP SIGNATURE-----
            \n\nwsBcBAABCAA0BOJhqo48CRBK7hi40v3rIwAAbiwIAIH8fxF/aWsmLizaW94xvO2t\nBG6vuMXiVRgo17Ewha28aAlpa3MLJkkeYH0kSETa0zBdsHkxxfZhr
            "payload": "tree 56cc284684d2d0b0f4ed97a893b7633d6d07d0dc\nparent 049956cc076e5fec10df4d4d03095ef8fad2e94e\nauthor Matheus"
            1638567484 -0300\n\nFix inactive user creation (#23859)\n\n
```

To get to the commits on the default branch all I had to do was add /commits to the repository API.

```
C ↑ api.github.com/repos/Public-Repositories/Rocket.Chat/commits/644e1d0ca0e524cd4013ee45403b03a82eb42ab7?per_page=50
"sha": "644e1d0ca0e524cd4013ee45403b03a82eb42ab7"
"node id": "MDY6029tbWl0ND0z0DA3Mj0z0jY0NGUxZDBjYTBlNTI0Y200MDEzZWU0NTOwM2IwM2E4MmViNDJhYjc=",
"commit": {
   "author": {
    "name": "Pierre H. Lehnen",
       "email": "Hudell@users.noreply.github.com",
"date": "2019-05-07T19:19:40Z"
     committer": {
         "name": "GitHub",
        "email": "noreply@github.com",
        "date": "2019-05-07T19:19:40Z"
    "message": "Merge branch 'develop' into 2fa-on-password-reset",
    "tree": {
        "sha": "62972e75de3a34271b5b5c0cbe52fe62718c7f8c",
        "url": "https://api.github.com/repos/Public-Repositories/Rocket.Chat/git/trees/62972e75de3a34271b5b5c0cbe52fe62718c7f8c"
    "rl": "https://api.github.com/repos/Public-Repositories/Rocket.Chat/git/commits/644e1d0ca0e524cd4013ee45403b03a82eb42ab7",
    "comment count": 0.
     verification": {
        "verified": true
         'reason": "valid",
        "signature": "----BEGIN PGP SIGNATURE----
        \n\nwsBcBAABCAAQBQJc0dpMCRBK7hj4Ov3rIwAAdHIIABh8KgZ+FFIKF2Q5xP3gpzel\nI6tR4Q/rsppuS1iAcWJwpclGwESB3vkNRhPgk90DdobybyJoEHYI3
        c47Zkg0e7jb70iD\nvNI+3ZpGWw/tcUHmACfrpyNYfihbbVjfzOsEw55J5FGZZAhS5qEkGnWQ9sgO+zcI\nTExG2JioEl5+wK65iGLDyIqYxF6uFCD2Rjcerh0i
        payload": "tree 62972e75de3a34271b5b5c0cbe52fe62718c7f8c\nparent a6796f0a365522f982ec8e1de667faff43d6ea79\nparent aad74afe"
        <noreply@github.com> 1557256780 -0300\n\nMerge branch 'develop' into 2fa-on-password-reset'
'url": "https://api.github.com/repos/Public-Repositories/Rocket.Chat/commits/644e1d0ca0e524cd4013ee45403b03a82eb42ab7",
"html_url": "https://github.com/Public-Repositories/Rocket.Chat/commit/644e1d0ca0e524cd4013ee45403b03a82eb42ab7",
"comments_url": "https://api.github.com/repos/Public-Repositories/Rocket.Chat/commits/644e1d0ca0e524cd4013ee45403b03a82eb42ab7/com
```

To get to a specific branch I went back to the repository API then added /branches then used the URL for the second branch in the list. This took me to the commits for that branch. Then I added ?per_page=50 to set the commits per page to 50.

2. In stateful communication, a connection is established and maintained until the end. Information from the connection is saved and used later in the communication, an example of this is FTP. Stateless communication does not do this, the client sends a request and receives a response then it is done. Each new response is completely separate from the response before it and the server does not need to store information on the previous request. HTTP is an example of stateless communication.

Part 3 3.2 and 3.3

54 10046 → 9000 [FIN, ACK] Seq=1 Ack=1 Win=1026 Len=0
60 9000 → 10046 [ACK] Seq=1 Ack=2 Win=491 Len=0
66 10080 → 9000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
66 10081 → 9000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
66 9000 → 10080 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0 MSS=1452 SACK_PERM=1 WS=128
54 10080 → 9000 [ACK] Seq=1 Ack=1 Win=262656 Len=0
66 9000 → 10081 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0 MSS=1452 SACK_PERM=1 WS=128
491 GET / HTTP/1.1
54 10081 → 9000 [ACK] Seq=1 Ack=1 Win=262656 Len=0
60 9000 → 10080 [ACK] Seq=1 Ack=438 Win=62336 Len=0
603 9000 → 10080 [PSH, ACK] Seq=1 Ack=438 Win=62336 Len=549 [TCP segment of a reassembled PDU]
60 HTTP/1.1 200 OK (text/html)
54 10080 → 9000 [ACK] Seq=438 Ack=551 Win=262144 Len=0
54 10080 → 9000 [FIN, ACK] Seq=438 Ack=551 Win=262144 Len=0
60 9000 → 10080 [ACK] Seq=551 Ack=439 Win=62336 Len=0

- 1. I used tcp.port==9000, because that is the port the server is running on so it should only show the server.
- 2. The command line in the server says GET HTTP/1.1 for the main page and for /random it says GET /random HTTP/1.1. In Wireshark it shows:

homepage:

me: GET HTTP/1.1

Server: HTTP/1.1 200 OK (Text/html)

Random:

Me: GET /random HTTP/1.1

Server: HTTP/1.1 200 OK (Text/html)

Me: GET /json HTTP/1.1

Server: HTTP/1.1 200 OK, JavaScript Object Notation (application/json)

3. Doing /json gets:

Server: HTTP/1.1 200 OK, JavaScript Object Notation (application/json)

Me: GET /favicon.ico HTTP/1.1 Server: HTTP/1.1 400 Bad Request

Doing /file/www/index.html puts me on the random street page and Wireshark gets:

Server: HTTP/1.1 200 OK (Text/html)

Me: GET /json HTTP/1.1

Server: HTTP/1.1 200 OK, JavaScript Object Notation (application/json)

Doing /file/www/root.html puts me on the main page with \${links} instead of files

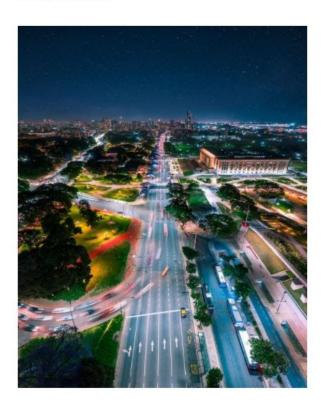
Server: HTTP/1.1 200 OK (Text/html)

4. 200 indicates a successful response because I correctly asked for the right thing

- 400 indicates a bad request which means invalid syntax and this is in response to the GET /favicon.ico HTTP/1.1
- 404 means not found and URL is not recognized, I got it because there was a typo.
- 5. If you open the packet that the server sends you it shows the HTML contents of the page with all the words and addresses of images.
- 6. Because in HTTPs all that information is encrypted and someone else can not read everything you and the website are sending to each other, including personal data.
- 7. The server is listening to port 9000, the most common port for HTTP is 80, and 443 is most common for HTTPs.
- 8. The local port changes frequently compared to the consistently port: 33368 for the SMTP.

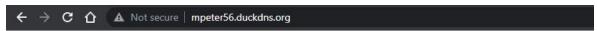


streets



	o.dst==18.216.204.163	ip.src==18.216.204.163			
No.	Time	Source	Destination	Protocol Lengt	h Info
	1 0.000000	18.216.204.163	192.168.0.9	SSH	170 Server: Encrypted packet (len=116)
	2 0.049983	192.168.0.9	18.216.204.163	TCP	54 34025 → 22 [ACK] Seq=1 Ack=117 Win=1026 Len=0
	5 1.000071	18.216.204.163	192.168.0.9	SSH	170 Server: Encrypted packet (len=116)
	9 1.045039	192.168.0.9	18.216.204.163	TCP	54 34025 → 22 [ACK] Seq=1 Ack=233 Win=1025 Len=0
	29 2.000057	18.216.204.163	192.168.0.9	SSH	170 Server: Encrypted packet (len=116)
	30 2.052719	192.168.0.9	18.216.204.163	TCP	54 34025 → 22 [ACK] Seq=1 Ack=349 Win=1025 Len=0
	37 2.891330	192.168.0.9	18.216.204.163	TCP	54 35860 → 80 [FIN, ACK] Seq=1 Ack=1 Win=1026 Len=0
	42 2.892213	192.168.0.9	18.216.204.163	TCP	66 35911 → 9000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
	45 2.940116	18.216.204.163	192.168.0.9	TCP	60 80 → 35860 [ACK] Seq=1 Ack=2 Win=491 Len=0
	46 2.940358	18.216.204.163	192.168.0.9	TCP	66 9000 → 35911 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0 MSS=1452 SACK_PERM=1 WS=128
	47 2.940397	192.168.0.9	18.216.204.163	TCP	54 35911 → 9000 [ACK] Seq=1 Ack=1 Win=262656 Len=0
	48 2.940619	192.168.0.9	18.216.204.163	HTTP	377 GET /json HTTP/1.1
	49 2.989458	18.216.204.163	192.168.0.9	TCP	60 9000 → 35911 [ACK] Seq=1 Ack=324 Win=62464 Len=0
1	50 2.989458	18.216.204.163	192.168.0.9	TCP	174 9000 + 35911 [PSH, ACK] Seq=1 Ack=324 Win=62464 Len=120 [TCP segment of a reassembled PDU]
	51 2.989968	18.216.204.163	192.168.0.9	HTTP/J	60 HTTP/1.1 200 OK , JavaScript Object Notation (application/json)
	52 2.990043	192.168.0.9	18.216.204.163	TCP	54 35911 → 9000 [ACK] Seq=324 Ack=122 Win=262656 Len=0
	53 2.991367	192.168.0.9	18.216.204.163	TCP	54 35911 → 9000 [FIN, ACK] Seq=324 Ack=122 Win=262656 Len=0
	54 3.000409	18.216.204.163	192.168.0.9	SSH	658 Server: Encrypted packet (len=604)
	55 3.039708	18.216.204.163	192.168.0.9	TCP	60 9000 → 35911 [ACK] Seq=122 Ack=325 Win=62464 Len=0
	56 3.052276	192.168.0.9	18.216.204.163	TCP	54 34025 → 22 [ACK] Seq=1 Ack=953 Win=1022 Len=0
	62 3.999922	18.216.204.163	192.168.0.9	SSH	170 Server: Encrypted packet (len=116)
	63 4.048579	192.168.0.9	18.216.204.163	TCP	54 34025 → 22 [ACK] Seq=1 Ack=1069 Win=1022 Len=0
	64 5.000024	18.216.204.163	192.168.0.9	SSH	170 Server: Encrypted packet (len=116)
	65 5.052676	192.168.0.9	18.216.204.163	TCP	54 34025 → 22 [ACK] Seq=1 Ack=1185 Win=1021 Len=0
	67 5.999878	18.216.204.163	192.168.0.9	SSH	170 Server: Encrypted packet (len=116)
L	68 6.050276	192.168.0.9	18.216.204.163	TCP	54 34025 → 22 [ACK] Seq=1 Ack=1301 Win=1021 Len=0

- 1. Now all of the requests sent to the server are sent to port 80, port 22, or port 9000. Previously all the traffic went to port 9000 exclusively.
- 2. Yes, it is still HTTP. To get HTTPs you must get SSL certified and have encryption for your communication. The HTTP packets are still unencrypted and HTTP.



You can make the following GET requests

- · /file/sample.html -- returns the content of the file sample.html
- · /json -- returns a json of the /random request
- · /random -- returns index.html

File Structure in www (you can use /file/www/FILENAME):

- index.html
- root.html

```
[ec2-user@ip-172-31-11-189 WebServer]$ [ec2-user@ip-172-31-11-189 WebServer]$ sudo nginx
[ec2-user@ip-172-31-11-189 WebServer]$ gradle funWebServer

> Task :FunWebServer
Received: GET / HTTP/1.0
Received: Host: localhost:9000
Received: Connection: close
Received: Cache-Control: max-age=0
Received: User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/97.0.4692
71 Safari/537.36
Received: User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/97.0.4692
71 Safari/537.36
Received: Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,appl cation/signed-exchange;v=b3;q=0.9
Received: Accept-Language: en-US,en;q=0.9
Received: Accept-Language: en-US,en;q=0.9
Received: FINISHED PARSING HEADER
<-========---> 75% EXECUTING [1m 16s]
> :FunWebServer
```

Time	Source	Destination	Protocol	Length	Info
1 0.000000	18.216.204.163	192.168.0.9	SSH		162 Server: Encrypted packet (len=108)
2 0.047033	192.168.0.9	18.216.204.163	TCP		54 6206 → 22 [ACK] Seq=1 Ack=109 Win=1025 Len=0
11 0.999381	18.216.204.163	192.168.0.9	SSH		162 Server: Encrypted packet (len=108)
12 1.047326	192.168.0.9	18.216.204.163	TCP		54 6206 → 22 [ACK] Seq=1 Ack=217 Win=1025 Len=0
16 1.999779	18.216.204.163	192.168.0.9	SSH		162 Server: Encrypted packet (len=108)
17 2.055298	192.168.0.9	18.216.204.163	TCP		54 6206 → 22 [ACK] Seq=1 Ack=325 Win=1024 Len=0
39 2.999948	18.216.204.163	192.168.0.9	SSH		162 Server: Encrypted packet (len=108)
40 3.047218	192.168.0.9	18.216.204.163	TCP		54 6206 → 22 [ACK] Seq=1 Ack=433 Win=1024 Len=0
49 3.982376	192.168.0.9	18.216.204.163	TCP		66 6848 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
50 3.982779	192.168.0.9	18.216.204.163	TCP		66 6849 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
52 3.999840	18.216.204.163	192.168.0.9	SSH		162 Server: Encrypted packet (len=108)
54 4.032275	18.216.204.163	192.168.0.9	TCP		66 80 → 6848 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0 MSS=1452 SACK_PERM=1 WS=12
55 4.032332	192.168.0.9	18.216.204.163	TCP		54 6848 → 80 [ACK] Seq=1 Ack=1 Win=262656 Len=0
56 4.032533	192.168.0.9	18.216.204.163	HTTP		518 GET / HTTP/1.1
57 4.032544	18.216.204.163	192.168.0.9	TCP		66 80 → 6849 [SYN, ACK] Seq=0 Ack=1 Win=62727 Len=0 MSS=1452 SACK_PERM=1 WS=12
58 4.032579	192.168.0.9	18.216.204.163	TCP		54 6849 → 80 [ACK] Seq=1 Ack=1 Win=262656 Len=0
59 4.043398	192.168.0.9	18.216.204.163	TCP		54 6206 → 22 [ACK] Seq=1 Ack=541 Win=1024 Len=0
63 4.082135	18.216.204.163	192.168.0.9	TCP		60 80 → 6848 [ACK] Seq=1 Ack=465 Win=62336 Len=0
65 4.152464	18.216.204.163	192.168.0.9	HTTP		729 HTTP/1.1 200 OK (text/html)
66 4.197831	192.168.0.9	18.216.204.163	TCP		54 6848 → 80 [ACK] Seq=465 Ack=676 Win=261888 Len=0
67 4.207000	18.216.204.163	192.168.0.9	SSH		98 Server: Encrypted packet (len=44)
68 4.208707	18.216.204.163	192.168.0.9	SSH		122 Server: Encrypted packet (len=68)
69 4.208772	192.168.0.9	18.216.204.163	TCP		54 6206 → 22 [ACK] Seq=1 Ack=653 Win=1023 Len=0
70 4.208979	18.216.204.163	192.168.0.9	SSH		114 Server: Encrypted packet (len=60)
71 4.208979	18.216.204.163	192.168.0.9	SSH		122 Server: Encrypted packet (len=68)
72 4.208979	18.216.204.163	192.168.0.9	SSH		122 Server: Encrypted packet (len=68)
73 4.208979	18.216.204.163	192.168.0.9	SSH		130 Server: Encrypted packet (len=76)
74 4.208979	18.216.204.163	192.168.0.9	SSH		130 Server: Encrypted packet (len=76)

- 1. I could not get the HTTPs set up but I was able to do the duckdns part. Now there is no port 9000 and it all goes to 80 or 22.
- 2. Yes unfortunately because HTTPs was not set up.

3.6.1

I decided to print out:

"Please use format /multiply?num1=#&num2=#

E.g. /multiply?num1=3&num2=4"

I did not want to use default values because someone may not realize they did it wrong and could be confused why the result is the way it is. I used a try-catch block with StringIndexOutOfBoundsException to catch errors in extracting path parameters and a try-catch block inside the other for catching NumberFormatException from errors in extracting required fields from parameters. I used error cod 400 Bad Request because the error would be a syntax error.