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**Kelas : SI REG 4A**

## Analisis Hasil Capture Wireshark

### 1. Situs OLX

Handshake :

No.	Time	Source	Destination	Protocol	Length	Info
836	34.891002	10.102.225.215	216.58.196.110	TLSv1.2	217	Application Data
837	34.891586	10.102.225.215	216.58.196.110	TLSv1.2	386	Application Data
838	34.897650	10.102.225.215	216.58.196.110	TCP	1434	[TCP segment of a reassembled PDU]
839	34.919827	10.102.224.117	239.255.255.250	SSDP	216	M-SEARCH * HTTP/1.1
840	34.924105	52.25.74.141	10.102.225.215	TLSv1.2	105	Change Cipher Spec, Encrypted Handshake Message
841	34.957628	216.58.196.110	10.102.225.215	TLSv1.2	92	Application Data
842	34.957777	10.102.225.215	216.58.196.110	TCP	1434	[TCP segment of a reassembled PDU]

▶ Frame 840: 105 bytes on wire (840 bits), 105 bytes captured (840 bits) on interface 0  
 ▶ Ethernet II, Src: Dell\_44:8a:74 (00:1e:c9:44:8a:74), Dst: HonHaiPr\_58:2b:8f (5c:ac:4c:58:2b:8f)  
 ▶ Internet Protocol Version 4, Src: 52.25.74.141, Dst: 10.102.225.215  
 ▶ Transmission Control Protocol, Src Port: 443, Dst Port: 49707, Seq: 3718, Ack: 331, Len: 51  
 ▶ Secure Sockets Layer

```

0000  5c ac 4c 58 2b 8f 00 1e c9 44 8a 74 08 00 45 00  \.LX+... .D.t..E.
0010  00 5b f9 93 40 00 e5 06 31 25 34 19 4a 8d 0a 66  [...]@... 1%4.J..f
0020  e1 d7 01 bb c2 2b de 1e 00 0e 23 53 23 b1 50 18  [...]...+... #5#.P.
0030  75 40 d2 f0 00 00 14 03 03 00 01 01 16 03 03 00  u@.....
0040  28 98 40 ec 6c 89 24 06 82 d9 5d 6b c1 b0 e1 c5  (.@.l.$... ]k...
0050  19 d8 db 11 b7 f9 63 e0 9a 2a 3c 42 0e da ae 20  .....c. .*<B...
0060  89 08 f6 9d 87 56 af 6d 0a  .....V.m .
  
```

Pada proses handshake ini dibutuhkan IP Address dan Port Number

- IP Address dapat dilihat pada panel kedua di bagian Internet Protocol Panel

▶ Frame 840: 105 bytes on wire (840 bits), 105 bytes captured (840 bits) on interface 0  
 ▶ Ethernet II, Src: Dell\_44:8a:74 (00:1e:c9:44:8a:74), Dst: HonHaiPr\_58:2b:8f (5c:ac:4c:58:2b:8f)  
 4 Internet Protocol Version 4, Src: 52.25.74.141, Dst: 10.102.225.215

```

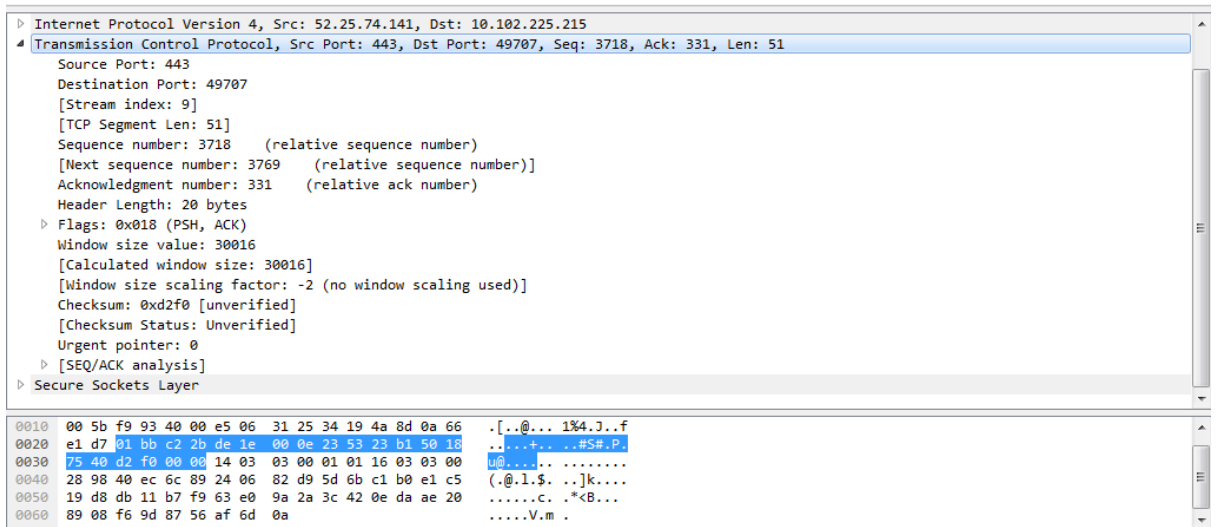
0100  .... = Version: 4
    .... 0101 = Header Length: 20 bytes (5)
  ▶ Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    Total Length: 91
    Identification: 0xf993 (63891)
  ▶ Flags: 0x02 (Don't Fragment)
    Fragment offset: 0
    Time to live: 229
    Protocol: TCP (6)
    Header checksum: 0x3125 [validation disabled]
    [Header checksum status: Unverified]
    Source: 52.25.74.141
    Destination: 10.102.225.215
    [Source GeoIP: Unknown]
    [Destination GeoIP: Unknown]
  ▶ Transmission Control Protocol, Src Port: 443, Dst Port: 49707, Seq: 3718, Ack: 331, Len: 51
  ▶ Secure Sockets Layer
  
```

```

0000  5c ac 4c 58 2b 8f 00 1e c9 44 8a 74 08 00 45 00  \.LX+... .D.t..E.
0010  00 5b f9 93 40 00 e5 06 31 25 34 19 4a 8d 0a 66  [...]@... 1%4.J..f
0020  e1 d7 01 bb c2 2b de 1e 00 0e 23 53 23 b1 50 18  [...]...+... #5#.P.
0030  75 40 d2 f0 00 00 14 03 03 00 01 01 16 03 03 00  u@.....
0040  28 98 40 ec 6c 89 24 06 82 d9 5d 6b c1 b0 e1 c5  (.@.l.$... ]k...
0050  19 d8 db 11 b7 f9 63 e0 9a 2a 3c 42 0e da ae 20  .....c. .*<B...
  
```

IP Source : 52.25.74.141  
 IP Destination : 10.102.225.215

- Port Number dapat dilihat pada panel kedua di bagian Transmission Control Protocol



Port Source : 443

Port Destination : 49707

## 2. Situs Elearning

Handshake:

No.	Time	Source	Destination	Protocol	Length	Info
40	1.810574	192.168.43.141	74.125.130.19	TLSV1.2	92	Application Data
41	1.925257	74.125.130.19	192.168.43.141	TLSV1.2	92	Application Data
60	4.727116	192.168.43.141	103.241.4.18	SSL	571	Client Hello
62	4.868986	192.168.43.141	106.10.162.43	TLSV1.2	100	Application Data
65	6.001959	106.10.162.43	192.168.43.141	TLSV1.2	100	Application Data
67	6.019956	103.241.4.18	192.168.43.141	TLSV1	199	Server Hello, Change Cipher Spec, Encrypted Handshake Message
68	6.021648	192.168.43.141	103.241.4.18	TLSV1	113	Change Cipher Spec, Encrypted Handshake Message
69	6.022534	192.168.43.141	103.241.4.18	TLSV1	1248	Application Data, Application Data
75	6.562372	103.241.4.18	192.168.43.141	TLSV1	1454	Application Data, Application Data

Frame 67: 199 bytes on wire (1592 bits), 199 bytes captured (1592 bits) on interface 0  
 Ethernet II, Src: AsustekC\_37:f8:7f (f8:32:e4:37:f8:7f), Dst: HonHaiPr\_58:2b:8f (5c:ac:4c:58:2b:8f)  
 Internet Protocol Version 4, Src: 103.241.4.18, Dst: 192.168.43.141  
 Transmission Control Protocol, Src Port: 443, Dst Port: 51570, Seq: 1, Ack: 518, Len: 145  
 Secure Sockets Layer

```

0000  5c ac 4c 58 2b 8f f8 32 e4 37 f8 7f 08 00 45 00  \.LX+..2 .7....E.
0010  00 b9 1b ba 40 00 38 06 ce 4c 67 f1 04 12 c0 a8  .@.8. .Lg....
0020  2b 8d 01 bb c9 72 2f 11 89 2e a5 c9 12 62 50 18  +...r/. ....bp.
0030  3c b8 d9 9a 00 00 16 03 01 00 51 02 00 00 4d 03  <..... .Q...M.
0040  01 58 ef 1b e0 dc 62 7c 60 07 7d 84 a2 03 77 1c  .X...b| .}...w.
0050  86 96 de 34 38 73 ed ff e3 54 15 aa e9 99 7a 09  ..48s...T...Z.
0060  b4 20 60 4f 3c cf bb f8 12 a2 5f a3 45 e4 5e f3  .O<... ..E.A.
0070  2d 3f bb 72 17 24 2a 18 d3 34 2d 8d 14 e2 f6 e6  -?.r.$%.4-.....
0080  69 13 00 33 00 00 05 ff 01 00 01 00 14 03 01 00  i..3.....
0090  01 01 16 03 01 00 30 2b 0b f8 70 72 1a c4 50 9f  .....0+ ..pr..P.
00a0  40 b2 05 4b 11 98 29 ea 86 d8 89 bd 08 d5 66 94  @..K..). ....f.
00b0  3b 85 a4 e4 a2 1a f8 0a 5f b0 0a 52 64 94 02 5c  ;..... ..Rd..\
00c0  1b 26 9c 02 da 75 4e  .&...uN
  
```

Pada proses handshake ini dibutuhkan IP Address dan Port Number

- IP Address dapat dilihat pada panel kedua di bagian Internet Protocol Panel

Frame 67: 199 bytes on wire (1592 bits), 199 bytes captured (1592 bits) on interface 0  
 Ethernet II, Src: AsustekC\_37:f8:7f (f8:32:e4:37:f8:7f), Dst: HonHaiPr\_58:2b:8f (5c:ac:4c:58:2b:8f)  
 Internet Protocol Version 4, Src: 103.241.4.18, Dst: 192.168.43.141

```

0100 .... = Version: 4
.... 0101 = Header Length: 20 bytes (5)
 Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
Total Length: 185
Identification: 0x1bba (7098)
 Flags: 0x02 (Don't Fragment)
Fragment offset: 0
Time to live: 56
  
```

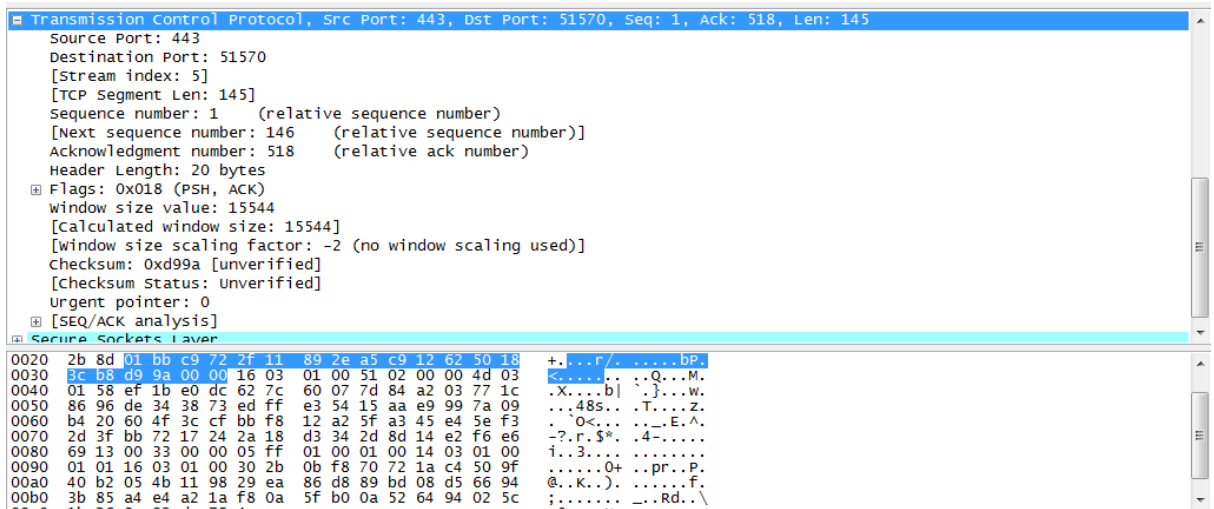
```

0000  5c ac 4c 58 2b 8f f8 32 e4 37 f8 7f 08 00 45 00  \.LX+..2 .7....E.
0010  00 b9 1b ba 40 00 38 06 ce 4c 67 f1 04 12 c0 a8  .@.8. .Lg....
0020  2b 8d 01 bb c9 72 2f 11 89 2e a5 c9 12 62 50 18  +...r/. ....bp.
0030  3c b8 d9 9a 00 00 16 03 01 00 51 02 00 00 4d 03  <..... .Q...M.
0040  01 58 ef 1b e0 dc 62 7c 60 07 7d 84 a2 03 77 1c  .X...b| .}...w.
0050  86 96 de 34 38 73 ed ff e3 54 15 aa e9 99 7a 09  ..48s...T...Z.
0060  b4 20 60 4f 3c cf bb f8 12 a2 5f a3 45 e4 5e f3  .O<... ..E.A.
0070  2d 3f bb 72 17 24 2a 18 d3 34 2d 8d 14 e2 f6 e6  -?.r.$%.4-.....
0080  69 13 00 33 00 00 05 ff 01 00 01 00 14 03 01 00  i..3.....
0090  01 01 16 03 01 00 30 2b 0b f8 70 72 1a c4 50 9f  .....0+ ..pr..P.
00a0  40 b2 05 4b 11 98 29 ea 86 d8 89 bd 08 d5 66 94  @..K..). ....f.
00b0  3b 85 a4 e4 a2 1a f8 0a 5f b0 0a 52 64 94 02 5c  ;..... ..Rd..\
00c0  1b 26 9c 02 da 75 4e  .&...uN
  
```

IP Source : 103.241.4.18

IP Destination : 192.168.43.141

- Port Number dapat dilihat pada panel kedua di bagian Transmission Control Protocol



Port Source : 443

Port Destination : 51570

### 3. Situs Twitter

Handshake :

No.	Time	Source	Destination	Protocol	Length	Info
88	13.781704	10.102.225.215	104.244.42.65	TCP	54	49488 → 443 [ACK] Seq=193 Ack=3612 Win=64768 Len=0
89	13.800685	10.102.225.215	104.244.42.65	TLSv1.2	180	Client Key Exchange, Change Cipher Spec, Hello Request, He...
90	13.828811	104.244.42.65	10.102.225.215	TLSv1.2	296	New Session Ticket, Change Cipher Spec, Encrypted Handshak...
91	13.829204	104.244.42.65	10.102.225.215	TLSv1.2	98	Application Data
92	13.829314	10.102.225.215	104.244.42.65	TCP	54	49488 → 443 [ACK] Seq=319 Ack=3898 Win=64512 Len=0
93	13.858358	10.102.225.215	10.100.130.5	DNS	77	Standard query 0x78d3 A ojsp.digicert.com
94	13.861230	10.100.130.5	10.102.225.215	DNS	538	Standard query response 0x78d3 A ojsp.digicert.com CNAME c...
95	13.865842	10.102.225.215	10.100.130.5	DNS	78	Standard query 0x7b9b A cs9.wac.phicdn.net

▶ Frame 90: 296 bytes on wire (2368 bits), 296 bytes captured (2368 bits) on interface 0  
 ▶ Ethernet II, Src: Dell\_44:8a:74 (00:1e:c9:44:8a:74), Dst: HonHaiPr\_58:2b:8f (5c:ac:4c:58:2b:8f)  
 ▶ Internet Protocol Version 4, Src: 104.244.42.65, Dst: 10.102.225.215  
 ▶ Transmission Control Protocol, Src Port: 443, Dst Port: 49488, Seq: 3612, Ack: 319, Len: 242  
 ▶ Secure Sockets Layer

```

0000  5c ac 4c 58 2b 8f 00 1e  c9 44 8a 74 08 00 45 00  \.LX+... .D.t..E.
0010  01 1a 37 89 40 00 30 06  92 e2 68 f4 2a 41 0a 66  ..7.@.0. .h.*A.f
0020  e1 d7 01 bb c1 50 5f 7a  33 06 ed a3 f8 ce 50 18  ....P_z 3.....P.
0030  00 77 96 2c 00 00 16 03  03 00 ba 04 00 00 b6 00  .w.,... ..
0040  01 fa 40 00 b0 9a 2a 08  49 6a 5d d5 1e 23 b5 bb  .@...*. Ij]..#..
0050  1a cb 84 57 fe 34 11 c8  21 37 35 cd e1 b7 a6 ba  ...W.4. !75....
0060  70 c0 1e df 45 ac a9 7e  e2 82 24 3a 5a 18 44 d1  p...E...~ .$:Z.D.
0070  23 d9 7e fb 00 32 83 0c  66 3a 1b ef 20 04 00 bd  #...2.. f:... ..
0080  69 00 bc e3 73 53 dd b9  ae 5d 67 4c 2f 20 1d 0a  i...s... ]gL/ ..
0090  11 44 a7 25 bb 70 4e 5e  3d b0 2f f2 ef 58 44 f4  .D.%pN^ =./..XD.
00a0  bd d1 04 0f 0b 11 4d 29  a0 4b ef 20 80 53 5e 77  .....M) .K. .S^w
00b0  e1 9a af f0 72 a3 d2 cf  ea e8 8a 13 a2 df cb 26  ....r... ..&
  
```

Pada proses handshake ini dibutuhkan IP Address dan Port Number

▶ Frame 90: 296 bytes on wire (2368 bits), 296 bytes captured (2368 bits) on interface 0
▶ Ethernet II, Src: Dell_44:8a:74 (00:1e:c9:44:8a:74), Dst: HonHaiPr_58:2b:8f (5c:ac:4c:58:2b:8f)
▶ Internet Protocol Version 4, Src: 104.244.42.65, Dst: 10.102.225.215
▶ Transmission Control Protocol, Src Port: 443, Dst Port: 49488, Seq: 3612, Ack: 319, Len: 242
▶ Secure Sockets Layer

- IP Address dapat dilihat pada panel kedua di bagian Internet Protocol Panel
  - IP Source : 104.244.42.65
  - IP Destination : 10.102.225.215
- Port Number dapat dilihat pada panel kedua di bagian Transmission Control Protocol
  - Port Source : 443
  - Port Destination : 49488

## 4. Situs Facebook

Handshake :

No.	Time	Source	Destination	Protocol	Length	Info
208	8.806402	10.102.225.215	10.102.225.215	ICMPv6	80	Neighbor Advertisement 10.102.225.215:9e90 (OVR) IS
209	8.811086	10.102.225.254	10.102.239.255	NBNS	92	Name query NB DESKTOP-T7CC5DM<1c>
210	8.811540	HonHaiPr_d1:ee:a3	Broadcast	ARP	42	who has 10.102.225.59? Tell 10.102.225.78
211	8.835170	10.102.225.215	157.240.13.35	TCP	54	49373 → 443 [ACK] Seq=95 Ack=30807 win=257 Len=0
212	8.861131	10.100.130.5	10.102.225.215	DNS	171	standard query response 0x59d9 A scontent-sin6-1.xx.fbcd
213	8.864576	10.102.225.215	10.100.130.5	DNS	88	standard query 0x90dc AAAA scontent-sin6-1.xx.fbcdn.net
214	8.954187	157.240.7.26	10.102.225.215	TCP	54	443 → 49414 [ACK] Seq=1 Ack=518 win=28944 Len=0
215	8.991003	157.240.7.26	10.102.225.215	TLSv1.2	200	Server Hello, Change Cipher Spec, Encrypted Handshake Me
216	8.996512	10.102.225.215	157.240.7.26	TLSv1.2	105	Change Cipher Spec, Hello Request, Hello Request

Frame 215: 200 bytes on wire (1600 bits), 200 bytes captured (1600 bits) on interface 0						
Ethernet II, Src: Dell_44:8a:74 (00:1e:c9:44:8a:74), Dst: HonHaiPr_58:2b:8f (5c:ac:4c:58:2b:8f)						
Internet Protocol Version 4, Src: 157.240.7.26, Dst: 10.102.225.215						
Transmission Control Protocol, Src Port: 443, Dst Port: 49414, Seq: 1, Ack: 518, Len: 146						
Secure Sockets Layer						

0000	5c ac 4c 58 2b 8f 00 1e	c9 44 8a 74 08 00 45 00	\\.LX+... .D.t..E.
0010	00 ba d7 b0 40 00 50 06	c1 45 9d f0 07 1a 0a 66	...@.P. .E....f
0020	e1 d7 01 bb c1 06 1f d5	84 40 20 4f 43 2b 50 18	..... .@ OC+P.
0030	71 10 21 76 00 00 16 03	03 00 5a 02 00 00 56 03	q.!v..... .Z...V.
0040	03 d5 b4 9b e7 50 e4 75	5b 53 33 58 2e 8a b9 8e	.....P.u [S3X....
0050	2b 9c e2 e3 e7 8e 92 ab	ae 36 f0 e9 c7 ae 92 c5	+..... .6.....
0060	cb 20 06 2c 82 2d e8 db	38 65 e3 a8 1e ff 72 f1	...-. 8e....r.
0070	a0 f4 1d c6 d9 18 72 a0	da 7d c9 26 cc 36 af 66	.....r. }.&.6.f
0080	f6 36 c0 2b 00 00 0e ff	01 00 01 00 00 10 00 05	.6+..... .....
0090	00 03 02 68 32 14 03 03	00 01 01 16 03 03 00 28	...h2... .....
00a0	22 a9 64 e5 4b 55 77 ce	44 4f c6 42 7b 7c 1a cb	".d.kuw. DO.B{[..
00b0	ca 97 3e ee 23 56 d2 6e	e8 6e 6c f3 d2 ee a3 a0	...>.#v.n .nl.....
00c0	b3 06 13 69 0a 64 db e3		...i.d..

Pada proses handshake ini dibutuhkan IP Address dan Port Number

Frame 215: 200 bytes on wire (1600 bits), 200 bytes captured (1600 bits) on interface 0						
Ethernet II, Src: Dell_44:8a:74 (00:1e:c9:44:8a:74), Dst: HonHaiPr_58:2b:8f (5c:ac:4c:58:2b:8f)						
Internet Protocol Version 4, Src: 157.240.7.26, Dst: 10.102.225.215						
Transmission Control Protocol, Src Port: 443, Dst Port: 49414, Seq: 1, Ack: 518, Len: 146						
Secure Sockets Layer						

- IP Address dapat dilihat pada panel kedua di bagian Internet Protocol Panel
  - IP Source : 157.240.7.26
  - IP Destination : 10.102.225.215
- Port Number dapat dilihat pada panel kedua di bagian Transmission Control Protocol
  - Port Source : 443
  - Port Destination : 49414