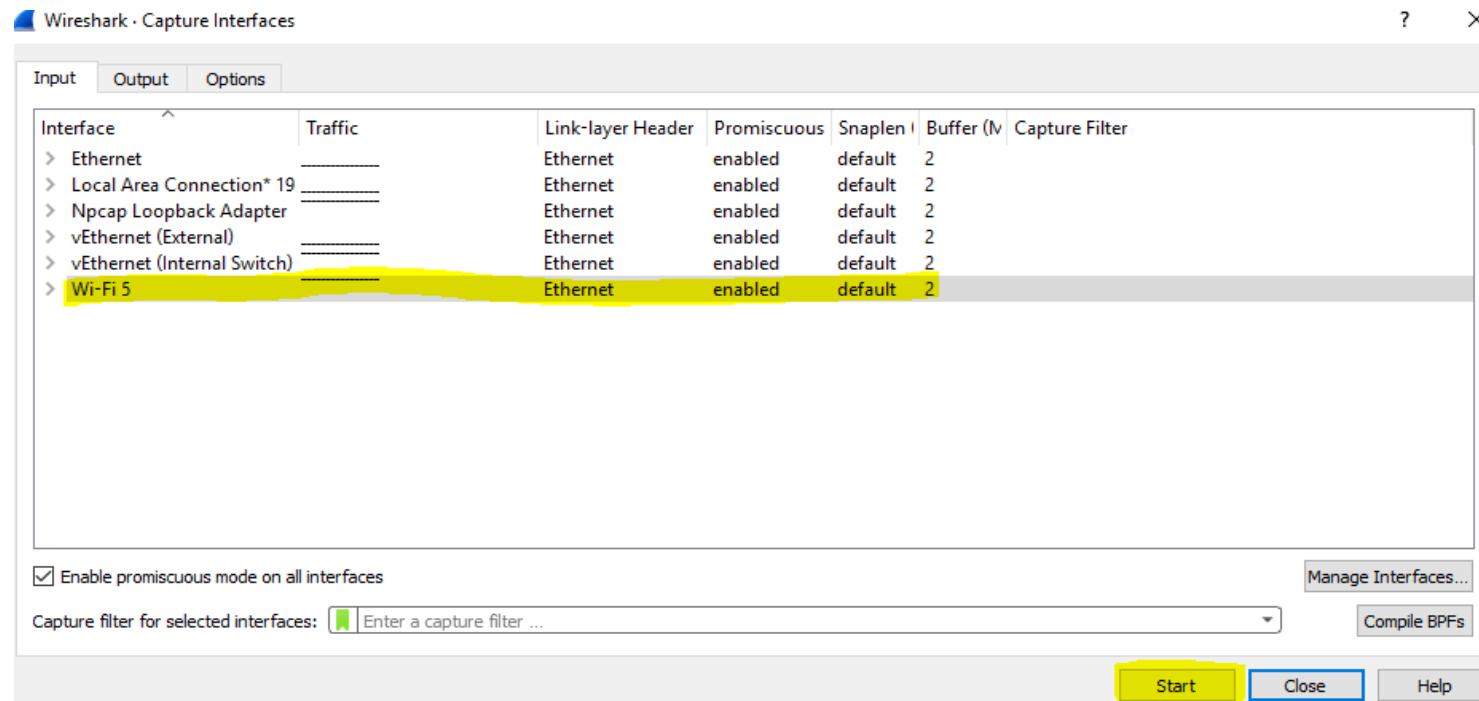


STEP 1 : DOWNLOAD Wireshark FROM [HERE](#)

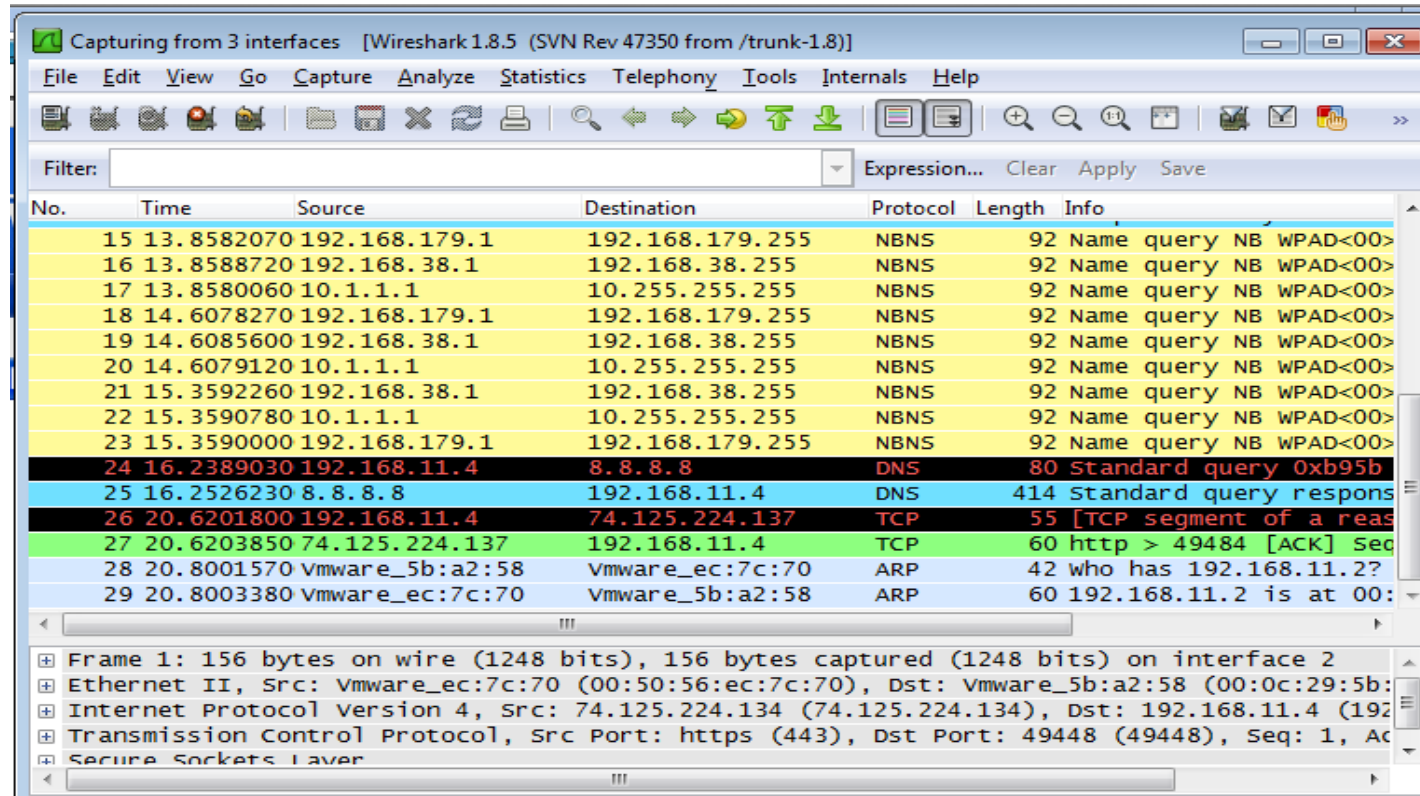
STEP 2: INSTALL THE Wireshark in Windows 7 VM.

STEP 3: In Wireshark, click "Capture" Menu and “Options” and select the network interface (connected to internet).

Click the Start button



STEP 4 : You should see packets being captured and scrolling by, as shown below on this page. Every packet sent from or to your machine is shown here.



STEP 1 : Open a Web browser and go to <http://www.altoromutual.com>

STEP 2 : On the web page, click "Sign In". Enter a Username : Rehab and
Password : Demo123

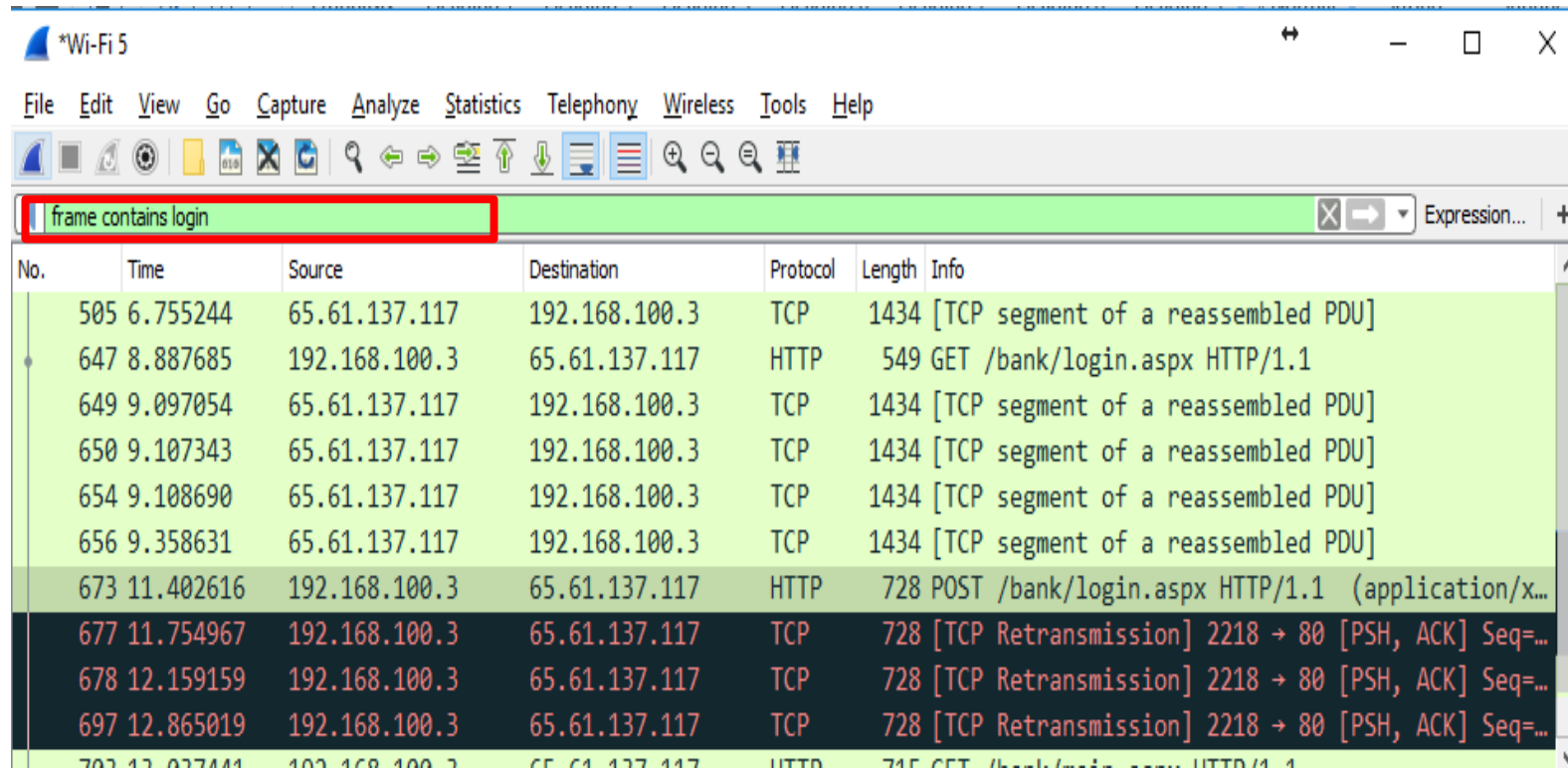
*If you get an error message, it's a normal behavior, we are just testing if
we can sniff for passwords using Wireshark packets capture.*

STEP 3 : Click the "Sign In" button.

STEP 4: Got o Wireshark and Stop the capture.

1. In the Wireshark window, box, in the Filter bar, type this filter, as shown below:

frame contains login then press Apply



2. Explore the data packet to see if details of the login can be found

*Wi-Fi 5

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

frame contains login

No.	Time	Source	Destination	Protocol	Length	Info
505	6.755244	65.61.137.117	192.168.100.3	TCP	1434	[TCP segment of a reassembled PDU]
647	8.887685	192.168.100.3	65.61.137.117	HTTP	549	GET /bank/login.aspx HTTP/1.1
649	9.097054	65.61.137.117	192.168.100.3	TCP	1434	[TCP segment of a reassembled PDU]
650	9.107343	65.61.137.117	192.168.100.3	TCP	1434	[TCP segment of a reassembled PDU]
654	9.108690	65.61.137.117	192.168.100.3	TCP	1434	[TCP segment of a reassembled PDU]
656	9.358631	65.61.137.117	192.168.100.3	TCP	1434	[TCP segment of a reassembled PDU]
673	11.402616	192.168.100.3	65.61.137.117	HTTP	728	POST /bank/login.aspx HTTP/1.1 (application/x...
677	11.754967	192.168.100.3	65.61.137.117	TCP	728	[TCP Retransmission] 2218 → 80 [PSH, ACK] Seq=...
678	12.159159	192.168.100.3	65.61.137.117	TCP	728	[TCP Retransmission] 2218 → 80 [PSH, ACK] Seq=...
697	12.865019	192.168.100.3	65.61.137.117	TCP	728	[TCP Retransmission] 2218 → 80 [PSH, ACK] Seq=...

3. From the Wireshark menu bar, click Capture, Start.
A Message pops up asking "Do you want to save the captured packets before starting a new capture?" Click "Continue without saving".

1. In a Web browser, go to mail.ksu.edu.sa
2. Enter a Username of YOURNAME (using your own name, not the literal string "YOURNAME", and a YOUR PASSWORD of , as shown below.
3. Click the "Sign in" button.
4. In the Wireshark window, box, click Capture, Stop.
5. Try locating the login details.

Possible reason why Wireshark failed to find the login information for the mail.ksu.edu.sa login sequence?

To display packets sent or received from to ip x.x.x.x.x

`ip.addr==x.x.x.x`

To display packets sent from ip x.x.x.x

`ip.src==x.x.x.x`

To display all packets received to ip x.x.x.x

`ip.dst==x.x.x.x`

To display all TCP packets sent or received from or to port no x.x.x.x

`tcp.port==x.x.x.x`

To display all TCP packets sent from port no x.x.x.x (as source port)

`tcp.srcport==x.x.x.x`

To display all TCP packets received to port no x.x.x.x (as destination port)

`tcp.dstport==x.x.x.x`

To display all UDP packets sent or received from or to port no x.x.x.x

`udp.port==x.x.x.x`

To display all UDP packets sent from port no x.x.x.x (as source port)

`udp.srcport==x.x.x.x`

To display all UDP packets received to port no x.x.x.x (as destination port)

`udp.dstport==x.x.x.x`

To display all TCP conversation/stream no x.x

`tcp.stream==x.x` OR `tcp.stream eq x.x`

To display all UDP conversation/stream no x.x

`udp.stream==x.x` OR `udp.stream eq x.x`

To display all POST or GET request from web server.

`http.request`

To display all TCP packets that SYN flags are set

`tcp.flags.syn==1`

Display all TCP packets that ACK flags are set

`tcp.flags.ack==1`

Display all TCP packets

`tcp`

Display all UDP packets

`udp`

Display all SNMP packets

`snmp`

Display all OSPF packets

`ospf`

Display all ARP packets

`arp`

Display all DNS packets (requests and replies)

`dns`

To display only DNS requests

`udp.dstport==53`

To display only DNS reply

`udp.srcport==53`

To display all ICMP packets (ping requests and ping replies)

`icmp`

To display only ICMP requests (ping requests)

`icmp.type==8`

To display only ICMP replies (ping replies)

`icmp.type==0`