

Wireshark 101

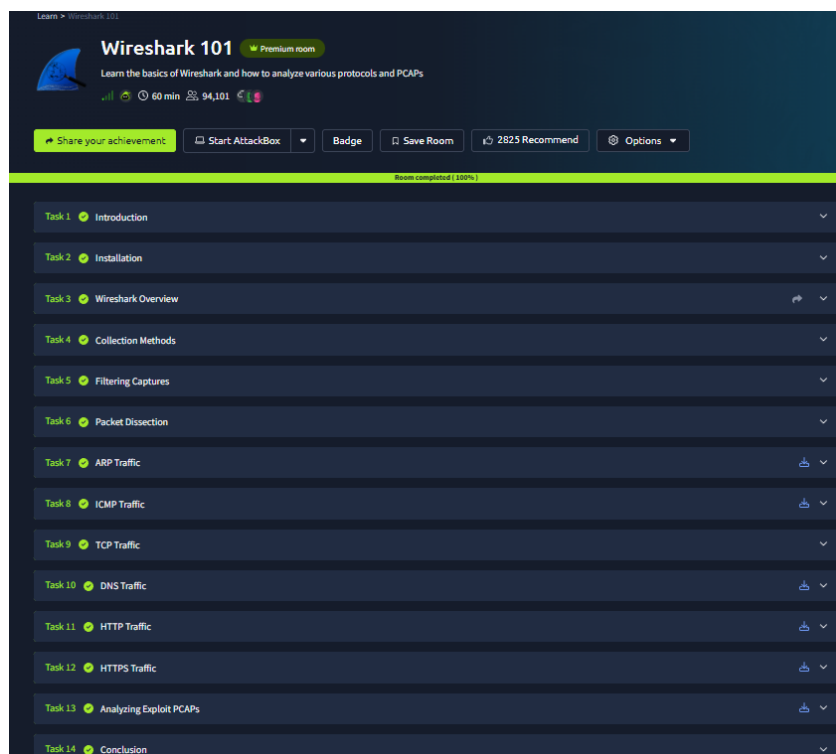
Platform: tryhackme

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Diploma: Cybersecurity 87

Room link: <https://tryhackme.com/room/wireshark>


Introduction: This report analyzes and covers the Wireshark 101 ROM on the TryHackMe platform, which consists of 14 tasks explaining the fundamentals of using Wireshark to capture and analyze packet data. The report includes a brief explanation of each task, along with screenshots of the steps involved and answers to frequently asked questions.



Task 1: Introduction

Task 1 Introduction

Wireshark, a tool used for creating and analyzing PCAPs (network packet capture files), is commonly used as one of the best packet analysis tools. In this room, we will look at the basics of installing Wireshark and using it to perform basic packet analysis and take a deep look at each common networking protocol.



PCAPs used in this room have been sourced from the Wireshark Sample Captures Page as well as captures from various members of the TryHackMe community. All credit goes to the respective owners.

Before completing this room we recommend completing the 'Introductory Networking'; if you have a general knowledge of networking basics then you will be ready to begin.

Answer the questions below

Read the above and move on to Installation.

No answer needed


Correct Answer

Task 2: Installation

Task 2 Installation

The installation for Wireshark is very easy and typically comes with a packaged GUI wizard. Luckily if you're using Kali Linux (or the TryHackMe AttackBox) then it is already installed on your machine. Wireshark can run on Windows, macOS, and Linux. To begin installing Wireshark on a Windows or macOS device you will need to first grab an installer from the [Wireshark website](#). Once you have downloaded an installer, simply run it and follow the GUI wizard.

If you are using Linux you can install Wireshark with `apt install wireshark` or a similar package manager.



Note: Wireshark can come with other packages and tools; you can decide whether or not you want to install them along with Wireshark.

For more information about Wireshark check out the [Wireshark Documentation](#).

Answer the questions below

Read the above, and ensure you have Wireshark installed.

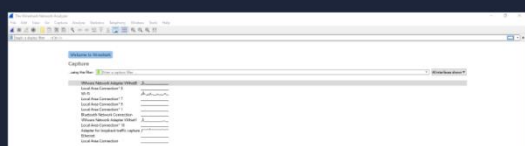
No answer needed

Correct Answer

Task 3: Wireshark Overview

Task 3 Wireshark Overview

The first screen that we are greeted by when opening Wireshark is the main page that will allow us to specify our interface(s) as well as apply filters to narrow down traffic that we are capturing.




Here you can see that I have multiple interfaces to filter from you may have more or fewer interfaces than I have. From here we can choose whether we want to perform a live capture on our interface(s) or load a PCAP for analysis.

It is useful to note that the graphs next to the interface names show the activity on the interface, if an interface has a flat bar it may be useless to attempt to capture on it (as no data on that interface is being picked up by the Wireshark client).

Live Packet Captures

If we begin by navigating to the green ribbon in Wireshark and select Manage Capture Filters we can view a list of available filters.



You do not have to select a filter, it will only help to bring down the number of packets being brought in and organize the capture. This is only a brief introduction to filters for more information about filters go to Task 12 or go to the [Wireshark Website](#).

Once you have any capture filters you want selected, you can begin a capture on an interface by double-clicking the interface or by right-clicking and navigating to Start Capture.

When opening **Wireshark**, we see the main page where we can select a network interface or load a **PCAP** file. Capture filters can be used to reduce the number of packets, then we start capturing by clicking on the chosen interface. After collecting the packets, we stop the capture and analyze them. Each packet displays information such as **time, source, destination, protocol, and length**. Wireshark also uses **different colors** to make it easier to detect anomalies and identify protocols quickly.

Task 4: Collection Methods

Task 4 Collection Methods

Before going into detail about how to analyze each protocol in a PCAP we need to understand the ways to gather a PCAP file. The basic steps to gather a PCAP in Wireshark itself can be simple however bringing into traffic can both the hard part as well as the fun part, this can include: taps, port mirroring, MAC floods, ARP Poisoning. This room will not cover how to set up these various strategies of live packet capturing and will only cover the basic theory of each.

Collection Methods Overview

Some things to think about before going headfirst into attempting to collect and monitor live packet captures.

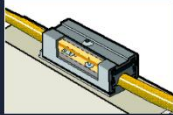
- Begin by starting with a sample capture to ensure that everything is correctly set up and you are successfully capturing traffic.
- Ensure that you have enough compute power to handle the number of packets based on the size of the network, this will obviously vary network by network.
- Ensure enough disk space to store all of the packet captures.

Once you meet all these criteria and have a collection method picked out you can begin to actively monitor and collect packets on a network.

Network Taps

Network taps are a physical implant in which you physically tap between a cable, these techniques are commonly used by Threat Hunting/OTR teams and red teams in an engagement to sniff and capture packets.

There are two primary means of tapping a wire. The first is by using hardware to tap the wire and intercept the traffic as it comes across, an example of this would be a vampire tap as pictured below.



Another option for planting a network tap would be an inline network tap, which you would plant between or 'inline' two network devices. The tap will replicate packets as they pass the tap. An example of this tap would be the very common Throwing Star LAN Tap.

PCAP Collection Methods (Short Summary)

Before analyzing **PCAP** files, it's important to understand the main methods of capturing traffic:

Network Taps: Physical devices placed on network cables to monitor traffic.

MAC Flooding: Overloading the switch's MAC table so it broadcasts packets to all ports.

ARP Spoofing: Redirecting network traffic to the monitoring device.

Before capturing, ensure you run a test capture, have enough computing power, and sufficient disk space.

Task 5: Filtering Captures

Packet Filtering is a very important part of packet analysis especially when you have a very large number of packets sometimes even 100,000 plus. In task 3 capture filters were briefly covered however there is a second type of filter that is often thought of as more powerful and easier to use. This second method is known as display filters, you can apply display filters in two ways: through the analyze tab and at the filter bar at the top of the packet capture.

Filtering Operators

Wireshark's filter syntax can be simple to understand making it easy to get a hold of quickly. To get the most out of these filters you need to have a basic understanding of boolean and logic operators.

Wireshark only has a few that you will need to be familiar with:

- and - operator: `and` / `&&`
- or - operator: `or` / `||`
- equals - operator: `eq` / `==`
- not equal - operator: `neq` / `!=`
- greater than - operator: `gt` / `>`
- less than - operator: `lt` / `<`

Wireshark also has a few other operators that go beyond the power of normal logical operators. These operators are the contains, matches, and bitwise, and operators. These operators can be very useful when you have a larger capture and need to pinpoint a single packet. They are out of scope for this room however I recommend doing your own research, the [Wireshark Filtering Documentation](#) can be a great starting point.

Basic Filtering

Filtering gives us a very large scope of what we can do with the packets, because of this there can be a lot of different filtering syntax options. We will only be covering the very basics in this room such as filtering by IP, protocol, etc. for more information on filtering check out the [Wireshark Filtering documentation](#).

There is a general syntax to the filter commands however they can be a little silly at times. The basic syntax of Wireshark filters is some kind of service or protocol like `ip` or `tcp`, followed by a dot then whatever is being filtered for example an address, MAC, DNS, protocol, etc.

Filtering by IP: The first filter we will look at is `ip.addr`, this filter will allow you to comb through the traffic and only see packets with a specific IP address contained in those packets, whether it be from the source or destination.

Syntax: `ip.addr == <IP Address>`

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.1	192.168.1.2	ICMP Echo (ping)	60	Request ID=0
2	0.000000	192.168.1.2	192.168.1.1	ICMP Echo Reply	60	Request ID=0
3	0.000000	192.168.1.1	192.168.1.2	ICMP Echo (ping)	60	Request ID=0
4	0.000000	192.168.1.2	192.168.1.1	ICMP Echo Reply	60	Request ID=0
5	0.000000	192.168.1.1	192.168.1.2	ICMP Echo (ping)	60	Request ID=0
6	0.000000	192.168.1.2	192.168.1.1	ICMP Echo Reply	60	Request ID=0
7	0.000000	192.168.1.1	192.168.1.2	ICMP Echo (ping)	60	Request ID=0
8	0.000000	192.168.1.2	192.168.1.1	ICMP Echo Reply	60	Request ID=0
9	0.000000	192.168.1.1	192.168.1.2	ICMP Echo (ping)	60	Request ID=0
10	0.000000	192.168.1.2	192.168.1.1	ICMP Echo Reply	60	Request ID=0

This filter can be handy in practical applications, say when you are threat hunting, and have identified a potentially suspicious host with other tools, you can use Wireshark to further analyze the packets coming from that device.

Filtering by SRC and DST: The second filter will look at it in two in one as well as a filter operator: `ip.src` and `ip.dst`. These filters allow us to filter the traffic by the source and destination from which the traffic is coming from.

Syntax: `ip.src == <SRC IP Address> and ip.dst == <DST IP Address>`

Filtering Captures (Wireshark) – Summary

Filters help simplify packet analysis, especially with large captures.

Display Filters: Applied after capturing via the filter bar or the Analyze menu.

Basic Operators: and, or, eq, ne, gt, lt

Common Filters:

By IP: `ip.addr == <IP>`

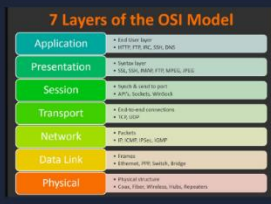
By Source and Destination: `ip.src == <SRC> and ip.dst == <DST>`

By Protocol or Port: `tcp.port eq <Port> / udp.port eq <Port>`

Filters allow focusing on important packets and analyzing them efficiently.

Task 6: Packet Dissection

This section covers how Wireshark uses OSI layers to break down packets and how to use these layers for analysis. It is expected that you already have background knowledge of what the OSI model is and how it works.



7 Layers of the OSI Model

Layer	Protocol	Example
Application	HTTP, FTP, SMTP, POP, IMAP	Web browser, Mail client
Presentation	SSL, TLS, MIME, JPEG, GIF, PNG	Secure web browser, Image viewer
Session	NetBIOS, RPC, NFS, X.25	Network file sharing, Remote procedure call
Transport	TCP, UDP, SPX, SCTP	Web browser, Mail client
Network	IP, ICMP, OSPF, BGP	Router, Network switch
Data Link	Ethernet, PPP, HDLC, SDH	Local area network, Wide area network
Physical	Copper, Fiber, Wireless, Video, Modem	Network interface card, Modem

Reza, M., 2018. 7 Layers of the OSI Model

Packet Details

You can double-click on a packet in capture to open its details. Packets consist of 5 to 7 layers based on the OSI model. We will go over all of them in an HTTP packet from a sample capture.

```
Frame 27: 224 bytes on wire (1792 bits), 224 bytes captured (1792 bits) on interface 0  
Internet Protocol Version 4, Src: 192.168.1.100, Dst: 192.168.1.1  
Transmission Control Protocol, Src Port: 80, Dst Port: 8080, Seq: 123456789, Len: 100  
Hypertext Transfer Protocol  
Line-based text data: text/html (3) bytes
```

Looking above we can see 7 distinct layers to the packet: frame(packet, source [MAC], source IP, protocol, protocol errors, application protocol, and application data. Below we will go over the layers in more detail.

- Frame (Layer 1): This will show you what frame / packet you are looking at as well as details specific to the Physical layer of the OSI model.

```
Frame 27: 224 bytes on wire (1792 bits), 224 bytes captured (1792 bits) on interface 0  
Ethernet II, Src: Intel(R) Ethernet Controller (P0P), Dst: Intel(R) Ethernet Controller (P0P)  
Length: 1500 bytes (12000 bits)  
Type: 0x00000000 (Ethernet)  
Time delta from previous captured frame: 0.000000000 seconds  
Time delta from previous display frame: 0.000000000 seconds  
Link-layer address of frame: 00:00:00:00:00:00  
Frame number: 27  
Frame length: 224 bytes (1792 bits)  
Capture length: 224 bytes (1792 bits)  
Frame is marked: False  
Frame is ignored: False  
Protocol in frame: Hypertext Transfer Protocol (application/javascript)  
Coloring rule name: HTTP  
Coloring rule source: HTTP [1] top port == 80 [1] http
```

Packet Dissection (Wireshark) – Summary

Wireshark uses the **OSI model** to break down packets for analysis. A captured packet can contain **5–7 layers**, typically:

Frame (Layer 1): Shows packet/frame details at the Physical layer.

Source [MAC] (Layer 2): Displays source and destination MAC addresses (Data Link layer).

Source [IP] (Layer 3): Displays source and destination IP addresses (Network layer).

Protocol (Layer 4): Shows transport protocol (TCP/UDP) and source/destination ports (Transport layer).

Protocol Errors: Details TCP segments needing reassembly.

Application Protocol (Layer 5): Displays protocol-specific details like HTTP, FTP, SMB (Application layer).

Application Data: Shows application-specific data.

Understanding these layers helps in analyzing packets and the protocols they carry.

Task 7: ARP Traffic

Answer the questions below

What is the Opcode for Packet 6?

Request (1) ✓ Correct Answer

What is the source MAC Address of Packet 19?

80:fb:06:f0:45:d7 ✓ Correct Answer

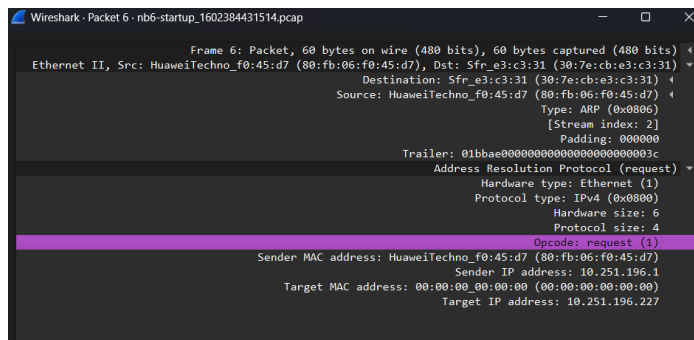
What 4 packets are Reply packets?

76, 400, 459, 520 ✓ Correct Answer

What IP Address is at 80:fb:06:f0:45:d7?

10.251.23.1 ✓ Correct Answer

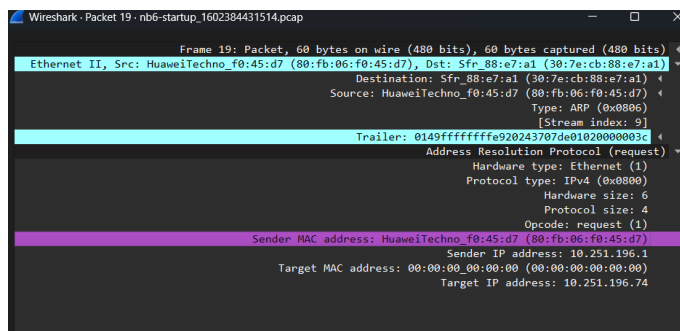
First question:



Select package number 6

Select the Address Resolution Protocol (request) section

Second question:



Select package number 19

Select the Address Resolution Protocol (request) section

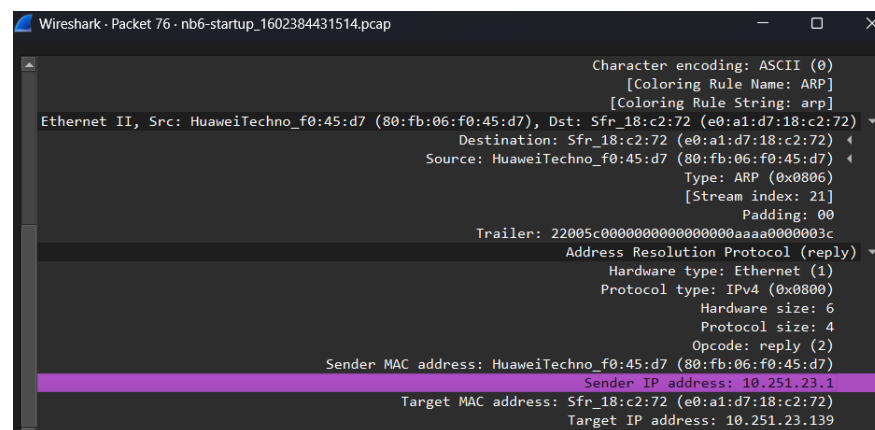
Third question:

	Info	Length	Protocol	Destination	Source	Time	No.
is at	80:fb:06:f0:45:d7	10.251.23.1	60	ARP	Sfr_18:c2:72 ...HuaweiTechno_f0:45	61.879614	76
is at	80:fb:06:f0:45:d7	10.251.23.1	60	ARP	Sfr_18:c2:72 ...HuaweiTechno_f0:45	1388651131.6	400
is at	80:fb:06:f0:45:d7	10.251.23.1	60	ARP	Sfr_18:c2:72 ...HuaweiTechno_f0:45	1388651196.7	459
is at	80:fb:06:f0:45:d7	10.251.23.1	60	ARP	Sfr_18:c2:72 ...HuaweiTechno_f0:45	1388651266.9	520

Enter the following code in the filter: arp.opcode == 2

Then enter the package numbers that appeared

Fourth question:



In the filter, write `eth.addr == 80:fb:06:f0:45:d7`

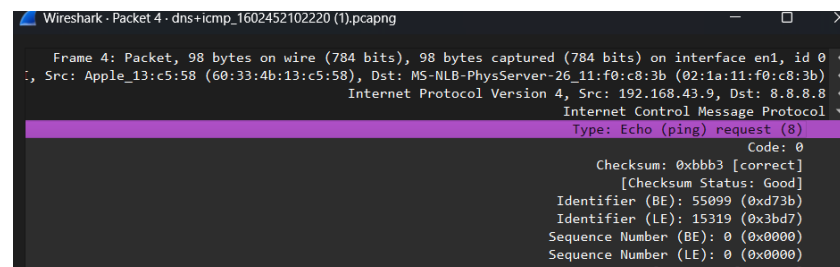
We are looking for packets containing ARP Reply (opcode 2) (Reply)

Task 8: ICMP Traffic



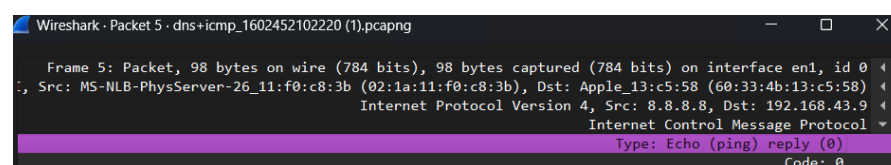
First question:

Go to package number 4, then go to Internet Control Message Protocol. You will find the package type there



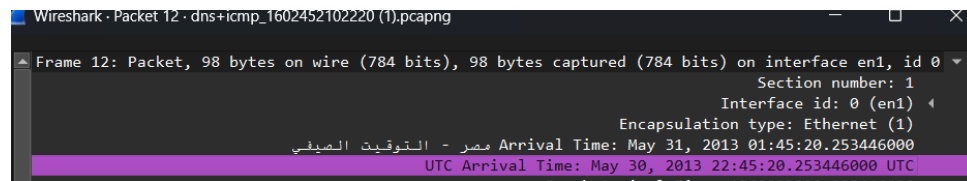
Second question:

Go to package number 5, then go to Internet Control Message Protocol. You will find the package type there



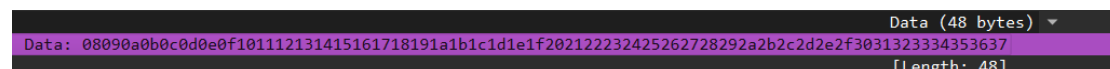
Third question:

Access package number 12, then access section one

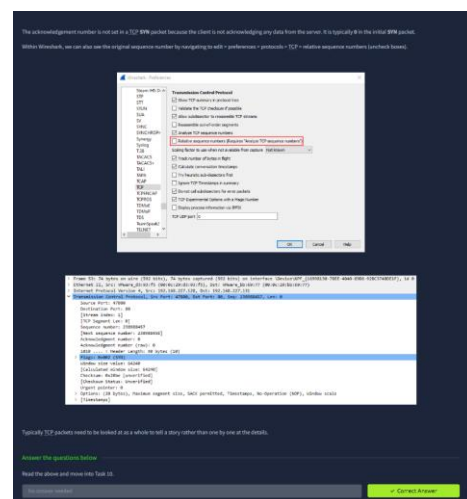


Fourth question:

Go to package number 18, then go to the Data section (48 bytes)



Task 9: TCP Traffic



Short Summary

TCP handles reliable delivery, ordering, and error correction.

In Wireshark, TCP behavior helps identify open/closed ports during scans.

If a port is closed, the server responds with RST, ACK.

The key TCP handshake uses three packets:

SYN

SYN-ACK

ACK

Any disruption or an unexpected RST may indicate suspicious activity.

When analyzing TCP, focus on:

Sequence Number

Acknowledgment Number (always 0 in the initial SYN)

Always analyze TCP packets as a sequence, not individually.

Task 10: DNS Traffic

What is being queried in packet 1?

8.8.8.8.in-addr.arpa ✓ Correct Answer

What site is being queried in packet 26?

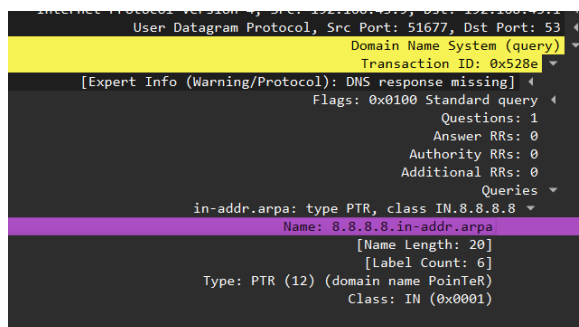
www.wireshark.org ✓ Correct Answer

What is the Transaction ID for packet 26?

0x2c58 ✓ Correct Answer

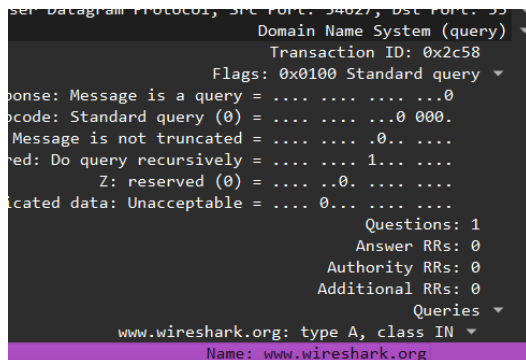
First question:

Go to package number 1, then go to section [Expert Info (Warning/Protocol): DNS response missing]. You will then find the query being performed



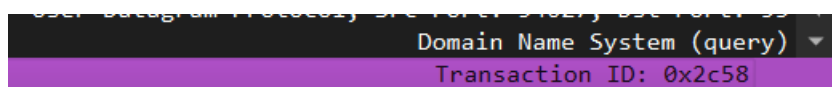
Second question:

Go to package number 26, then go to the Domain Name System (query) section. You will then find the website being queried



Third question:

Navigate to package number 26, then to the Domain Name System (query) section. You will then find the transaction ID for package 26



Task 11: HTTP Traffic

Answer the questions below

What percent of packets originate from Domain Name System?

4.1 ✓ Correct Answer

What endpoint ends in .237?

145.254.160.237 ✓ Correct Answer

What is the user-agent listed in packet 4?

Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113;/n ✓ Correct Answer

Looking at the data stream what is the full request URI for packet 18?

http://pagead2.googlesyndication.com/pagead/adst/client-mca-pub-2301919486736298/andom=1084434302856/int=1082 ✓ Correct Answer

What domain name was requested from packet 38?

www.ethereal.com ✓ Correct Answer

Looking at the data stream what is the full request URI for packet 38?

http://www.ethereal.com/download.html ✓ Correct Answer

First question:

From the top menu, go to Statistics, then Protocol Hierarchy. You will find the percentage of packets originating from the Domain Name System

PDU's	End Bits/s	End Bytes	End Packets	Bits/s	Bytes	Percent Bytes	Packets	Percent Packets	Protocol
43	0	0	0	6604	25991	100.0	43	100.0	Frame + Ethernet II
43	0	0	0	155	602	2.4	43	100.0	Internet Protocol Version 4
43	0	0	0	226	860	3.4	43	100.0	User Datagram Protocol
2	0	0	0	4	16	0.1	2	4.7	Domain Name System
41	198	756	37	220	836	3.3	41	95.3	Transmission Control Protocol
4	315	1200	2	476	1812	7.2	4	9.3	Hypertext Transfer Protocol
1	949	3608	1	949	3608	14.4	1	2.3	Line-based text data
1	4756	18070	1	4756	18070	72.0	1	2.3	extensible Markup Language

Second question:

From the top menu, go to Statistics → Endpoints, select IPv4, and you will find an IP ending in .237

[illegible]

Third question:

Select package number 4, then go to Hypertext Transfer Protocol

You will then find user-agent

```

Hypertext Transfer Protocol
GET /download.html HTTP/1.1\r\n
Host: www.etherreal.com\r\n
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.6) Gecko/20040113\r\n
/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,image/jpeg,image/gif;q=0.2,*/*;q=0.1\r\n

```

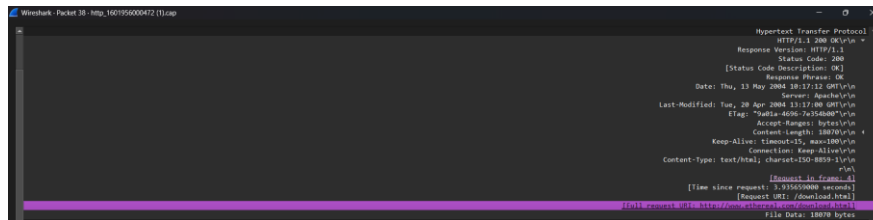
Fourth question:

Go to package number 18 and scroll to the bottom of the page; you will find the full URI for the order

[illegible]

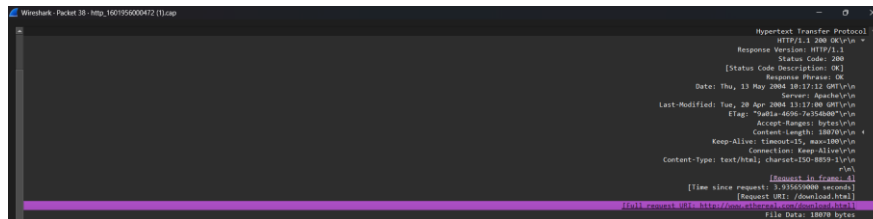
Fifth question:

Access package number 38, then Hypertext Transfer Protocol



Sixth question:

Access package number 38, then Hypertext Transfer Protocol



Task 12: HTTPS Traffic

Looking at the data stream what is the full request URI for packet 31?

✓ Correct Answer

Looking at the data stream what is the full request URI for packet 50?

✓ Correct Answer

What is the User-Agent listed in packet 50?

✓ Correct Answer

First, we need to decrypt the data using the RSA key within Wireshark

Steps:

Open Wireshark

Go to

Edit > Preferences > Protocols > TLS

Add the key in the RSA section

IP Address: 127.0.0.1

Port: start_tls

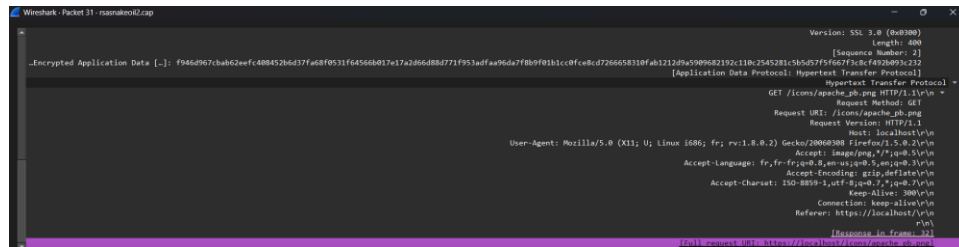
Protocol: http

Keyfile

Enter the path to the RSA file

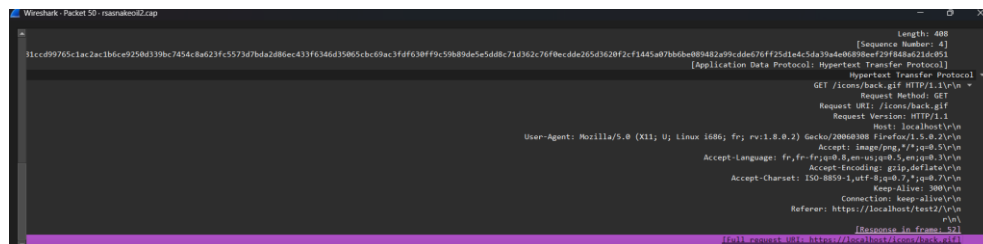
First question:

Access package number 31, then access Hypertext Transfer Protocol

A screenshot of the Wireshark interface showing packet 31. The left pane shows the packet list with 'Encrypted Application Data' selected. The middle pane shows the packet bytes. The right pane shows the details of the Hypertext Transfer Protocol, including the request method (GET), URI (/icons/apple-touch.png), and various headers like User-Agent, Accept, and Accept-Language.

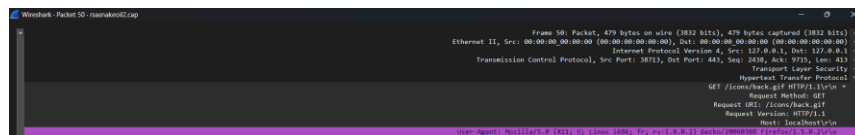
Second question:

Access package number 50, then access Hypertext Transfer Protocol

A screenshot of the Wireshark interface showing packet 50. The left pane shows the packet list with 'Encrypted Application Data' selected. The middle pane shows the packet bytes. The right pane shows the details of the Hypertext Transfer Protocol, including the request method (GET), URI (/icons/back.gif), and various headers like User-Agent, Accept, and Accept-Language.

Third question:

Access package number 31, then access Hypertext Transfer Protocol, and you will find User-Agent

A screenshot of the Wireshark interface showing packet 31. The left pane shows the packet list with 'Encrypted Application Data' selected. The middle pane shows the packet bytes. The right pane shows the details of the Hypertext Transfer Protocol, including the request method (GET), URI (/icons/back.gif), and various headers like User-Agent, Accept, and Accept-Language.

Task 13: Analyzing Exploit PCAPs

Short Summary of the Zerologon Task

The PCAP shows a Zerologon attack against a Domain Controller.

Attacker IP = 192.168.100.128

DC IP = 192.168.100.6

What the PCAP reveals:

Unusual protocols appear (DCERPC, EPM) → start of the attack.

The attacker (192.168.100.128) sends all suspicious requests.

Zerologon behavior is visible through:

Multiple RPC connections

DCERPC requests to reset the machine account password

Later, SMB2/3 and DRSUAPI traffic appears → indicating secretsdump being used to dump hashes.

Conclusion:

The PCAP clearly shows the attack sequence: Zerologon exploitation → machine password reset → hash dumping.

Secretsdump SMB Analysis

Looking further at the PCAP we can see SMB2/3 traffic and DRSUAPI traffic, again with prior knowledge of the attack we know that it uses secretsdump to dump hashes. Secretsdump abuses SMB2/3 and DRSUAPI to do this, so we can assume that this traffic is secretsdump.

1	1803	25	417789	192.168.100.120	192.168.100.0	SMB2	278	Encrypted SMB2
2	1805	25	421187	192.168.100.120	192.168.100.0	SMB2	223	Encrypted SMB2
3	1807	25	425215	192.168.100.120	192.168.100.0	DRSUAPI	216	SetLocalMachine request
4	1809	25	429245	192.168.100.120	192.168.100.0	DRSUAPI	364	SetLocalMachine request
5	1182	25	431481	192.168.100.120	192.168.100.0	TCP	68	47798 → 49058 [ACK] Seq=408961209 Ack=2922379794 Win=61568 Len=0
6	1183	25	435218	192.168.100.120	192.168.100.0	SMB2	278	Encrypted SMB2
7	1185	25	435229	192.168.100.120	192.168.100.0	SMB2	223	Encrypted SMB2
8	1187	25	438481	192.168.100.120	192.168.100.0	DRSUAPI	276	SetLocalMachine request
9	1189	25	442082	192.168.100.120	192.168.100.0	DRSUAPI	364	SetLocalMachine request
10	1112	25	445187	192.168.100.120	192.168.100.0	TCP	68	47778 → 49055 [ACK] Seq=408961305 Ack=2922383786 Win=61568 Len=0
11	1113	25	479773	192.168.100.120	192.168.100.0	SMB2	278	Encrypted SMB2
12	1115	25	483444	192.168.100.120	192.168.100.0	SMB2	223	Encrypted SMB2
13	1117	25	488042	192.168.100.120	192.168.100.0	DRSUAPI	276	SetLocalMachine request
14	1119	25	492086	192.168.100.120	192.168.100.0	DRSUAPI	364	SetLocalMachine request
15	1121	25	494488	192.168.100.120	192.168.100.0	TCP	68	47778 → 49058 [ACK] Seq=408961372 Ack=2922388282 Win=62392 Len=0
16	1123	25	498186	192.168.100.120	192.168.100.0	TCP	76	47812 → 49055 [ACK] Seq=4291590228 Ack=2922390288 Win=65536 Len=0
17	1125	25	511789	192.168.100.120	192.168.100.0	TCP	68	47812 → 49055 [ACK] Seq=4291590228 Ack=2922391978 Win=64228 Len=0
18	1127	25	512087	192.168.100.120	192.168.100.0	SMB	127	Negotiate Protocol Request
19	1129	25	513485	192.168.100.120	192.168.100.0	TCP	68	47812 → 49055 [ACK] Seq=4291590228 Ack=2922391978 Win=64228 Len=0
20	1131	25	514684	192.168.100.120	192.168.100.0	SMB2	164	Negotiate Protocol Request
21	1133	25	515089	192.168.100.120	192.168.100.0	TCP	68	47812 → 49055 [ACK] Seq=4291590228 Ack=2922391978 Win=64228 Len=0
22	1135	25	518152	192.168.100.120	192.168.100.0	SMB2	212	Session Setup Request, NTLMSSP_NEGOTIATE
23	1137	25	518666	192.168.100.120	192.168.100.0	TCP	68	47812 → 49055 [ACK] Seq=4291590228 Ack=2922391978 Win=64228 Len=0
24	1139	25	520884	192.168.100.120	192.168.100.0	SMB2	508	Session Setup Request, NTLMSSP_AUTH, User: ADMIN
25	1141	25	521211	192.168.100.120	192.168.100.0	TCP	68	47812 → 49055 [ACK] Seq=4291590228 Ack=2922391978 Win=64228 Len=0
26	1143	25	524337	192.168.100.120	192.168.100.0	SMB2	223	Encrypted SMB2
27	1145	25	525071	192.168.100.120	192.168.100.0	SMB2	242	Encrypted SMB2
28	1147	25	525843	192.168.100.120	192.168.100.0	SMB2	264	Encrypted SMB2

Each exploit and attack will come with its unique artifacts, in this case, it is clear what happened and the order of events that occurred. Once we have identified the attacker we would need to move on to other steps to identify and isolate as well as report the incident if we were on a Threat Hunting or DFIR team.

Answer the questions below

Read the above and analyze the PCAP yourself to piece together the events that occurred, access the pcap by going to /root/Rooms/Wireshark101 on the AttackBox and double click the task11.pcap file to open it in Wireshark; you can also download it on this task.

No answer needed


Correct Answer

Task 14: Conclusion

Task 14 Conclusion


Want to learn more? There are multiple courses and certifications that take a deep dive into Wireshark. The first free resource that I would recommend checking out is the Wireshark online documentation. It is very detailed and can help you understand all the nuances that come with learning Wireshark. Along with the written docs they also provide some videos to help you out along the way.

You can find the Wireshark Documentation, [here](#).



If you're looking to get more practice with Wireshark you can check out their [Wireshark Sample Captures](#). Or if you're looking for a real world Threat Hunting challenge you can check out Case: 001 [PCAP Analysis](#) by [DFIR Madness](#).

If you want to continue working on your analysis skills on Tryhackme, check out [Overpass 2 - Hacked](#).



Answer the questions below

Check out the provided links and keep learning!

No answer needed

Correct Answer