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HTTP METHODS

WHAT IS AN HTTP METHOD?

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* HTTP (Hypertext Transfer Protocol) methods are a set of request methods used by clients to request resources from servers.

* These methods indicate the desired action to be performed on the resource.

GET

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Requests a representation of the specified resource.

GET requests should only retrieve data and should not have any other effect.

EX: *Visit google.com, Netflix.com, Beriteck.com*

POST

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Submits data to be processed to the specified resource. POST requests can change the state of the server or trigger some action.

EX: Login to a site with *username* and *password*

PUT

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Updates the specified resource with the request payload. PUT requests are idempotent, meaning that multiple identical requests should have the same effect as a single request.

EX: upload a picture to a site

DELETE

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Deletes the specified resource.

EX: Delete an uploaded file/picture.

HEAD

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Requests the headers of the specified resource without the body content.

OPTIONS

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Returns the HTTP methods that the server supports for the specified URL

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WIRESHARK

WHAT IS WIRESHARK

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Wireshark is a popular open-source network protocol analyzer. It is used for capturing and analyzing network traffic in real-time or from saved capture files.

IMPORTANCE

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Wireshark is a powerful tool that helps:

network administrators,

security professionals,

developers

to **understand what is happening on their network**, troubleshoot network issues, and investigate security incidents.

TYPES OF FILTER

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- Display filter (What you want to see from the results)
- Capture filter (what you want to intercept)

CLI CAPTURE

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Network packets can also be captured using CLI tools like:

- Tshark
- TCPdump
- Dumpcap

WHERE SHOULD WIRESHARK BE PLACED IN A NETWORK?

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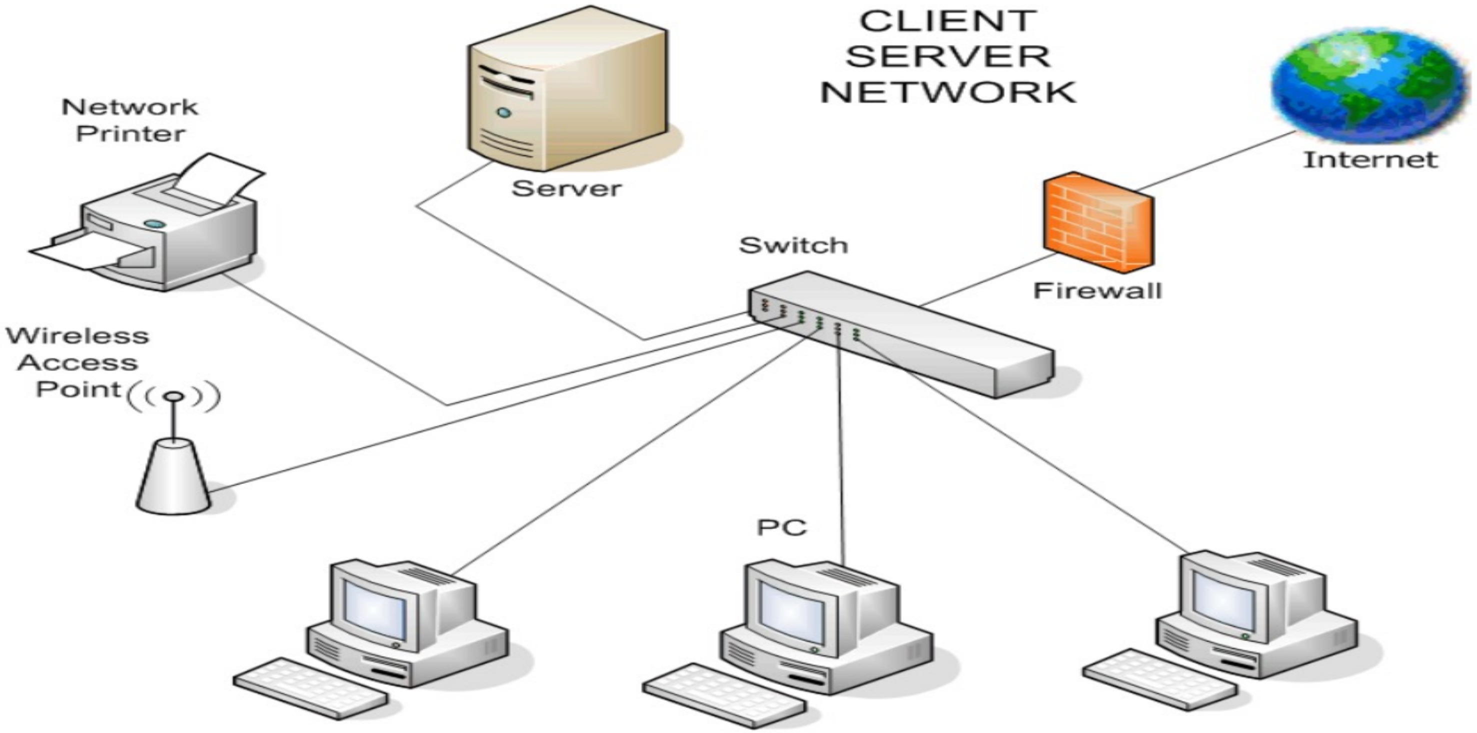

DESCRIBE THE WIRESHARK INTERFACE

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- Display filters VS capture filters

- Interfaces to capture traffic on

- Wireshark profiles

- Menu Bar

*File,

*Edit “preferences”

*View ”coloring rules”

*Statistics

FOLLOW “TCP STREAM”

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The "Follow TCP Stream" feature in Wireshark serves the purpose of providing a ***consolidated view of the entire communication between two endpoints*** over a TCP (Transmission Control Protocol) connection.

It allows you to see the complete exchange of data between the sender and receiver in a more human-readable format.

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DEMO TIME

CHALLENGE 101

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* Three-way handshake

* Observe a Redirect (HTTP 302)

FTP-CLIENTSIDE 101

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* Three-way handshake

* FTP Username and Password

* Extract Images (pantheon.jpg)

* Frame 5851 (file sent)

HTTP-BANKING

HTTP://DEMO.T3-FRAMEWORK.ORG/JOOMLA30/INDEX.PHP/EN/JOOMLA-PAGES/SAMPLE-PAGE-2/LOGIN-PAGE

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- Visit the site above and intercept the traffic
- Filter the traffic on HTTP
- Check the credentials from POST request
- Export object (HTTP)
- Visit any https site and login then show encrypted data

HTTP-DISNEY

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- multiple DNS request to www.disney.com
- Packet 16 shows a redirect (301)
- Packet 38 – 46 (multiple DNS requests to other sites
- Observe the server initiates connection termination
- visit who.is