

LAPORAN TUGAS
PEMBELAJARAN TRYHACKME
“HTTP In Detail”



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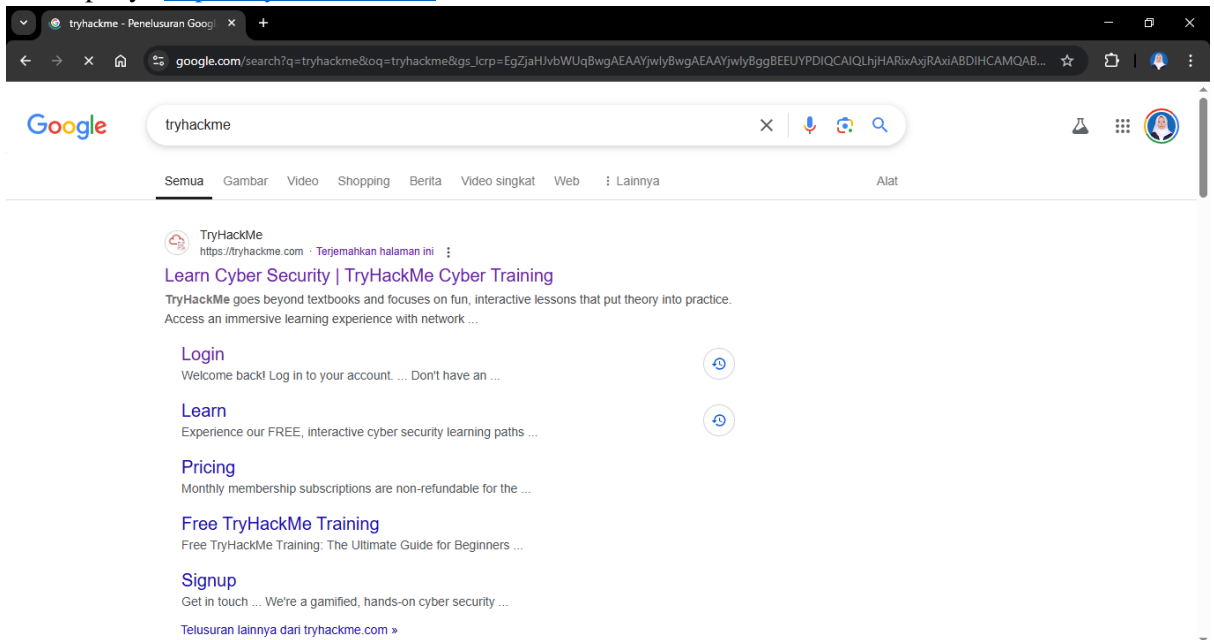
POLITEKNIK NEGERI MALANG PSDKU LUMAJANG

Jl. Lintas Timur, Area Sawah/Kebun, Jogoturunan, Kec. Lumajang, Kab. Lumajang

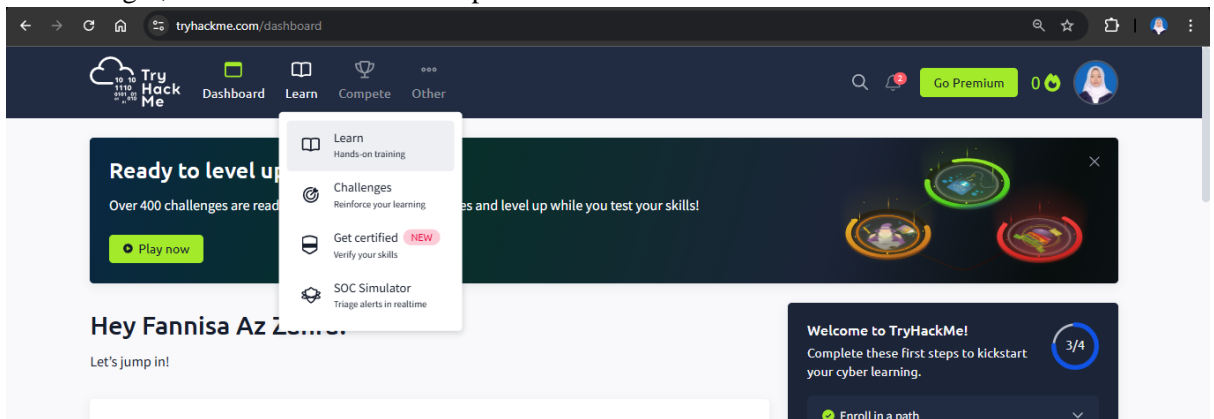
Jawa Timur 67314

2025

1. Buka laman chrome, lalu ketikkan tryhackme kemudian Login dengan akun yang sudah kalian punya <https://tryhackme.com/>



2. Setelah login, masuk ke dashboard dan pilih learn.



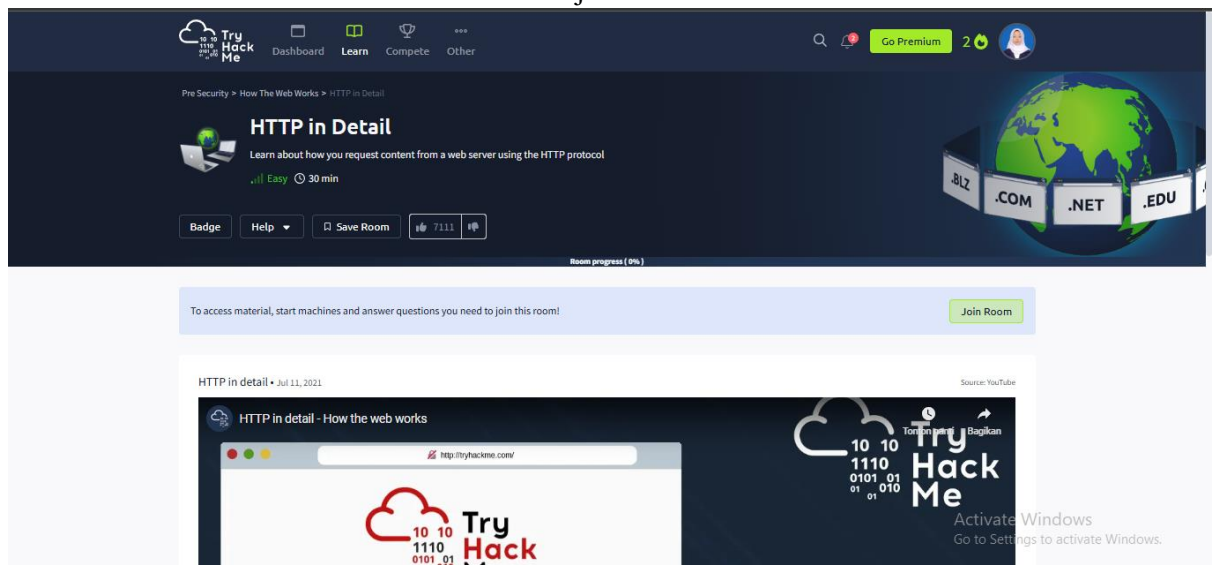
3. Setelah itu scroll kebawah dan pilih Free Roadmap



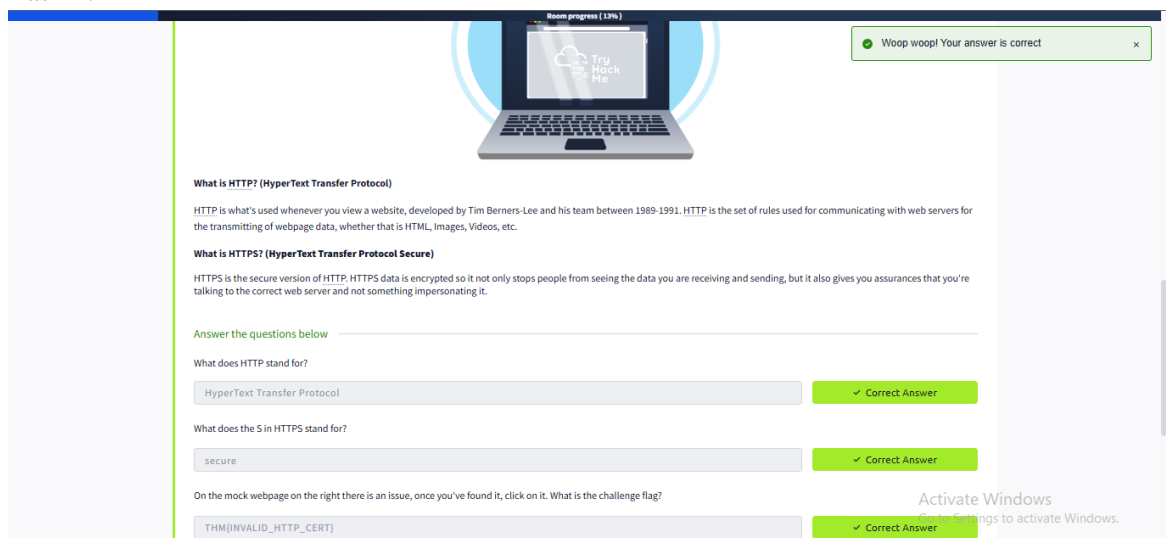
4. Lalu scroll kebawah dan pilih “room HTTP In Detail”



5. Setelah masuk room “HTTP In Detail” lalu klik join



6. Task 1.



7. Task 2.

Room progress (22%)

</html>

Woop woop! Your answer is correct

To breakdown each line of the response:

Line 1: HTTP 1.1 is the version of the HTTP protocol the server is using and then followed by the HTTP Status Code in this case "200 Ok" which tells us the request has completed successfully.

Line 2: This tells us the web server software and version number.

Line 3: The current date, time and timezone of the web server.

Line 4: The Content-Type header tells the client what sort of information is going to be sent, such as HTML, images, videos, pdf, XML.

Line 5: Content-Length tells the client how long the response is, this way we can confirm no data is missing.

Line 6: HTTP response contains a blank line to confirm the end of the HTTP response.

Lines 7-14: The information that has been requested, in this instance the homepage.

Answer the questions below

What HTTP protocol is being used in the above example?

HTTP/1.1

✓ Correct Answer

What response header tells the browser how much data to expect?

Content-Length

✓ Correct Answer

Activate Windows
Go to Settings to activate Windows.

8. Task 3.

Room progress (40%)

GET Request

Woop woop! Your answer is correct

This is used for getting information from a web server.

POST Request

This is used for submitting data to the web server and potentially creating new records

PUT Request

This is used for submitting data to a web server to update information

DELETE Request

This is used for deleting information/records from a web server.

Answer the questions below

What method would be used to create a new user account?

POST

✓ Correct Answer

What method would be used to update your email address?

PUT

✓ Correct Answer

What method would be used to remove a picture you've uploaded to your account?

DELETE

✓ Correct Answer

What method would be used to view a news article?

GET

✓ Correct Answer

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9. Task 4.

Room progress (100%)

401 - Not Authorised

Woop woop! Your answer is correct

401 - Not Authorised	You are not currently allowed to view this resource until you have authorised with the web application, most commonly with a username and password.
403 - Forbidden	You do not have permission to view this resource whether you are logged in or not.
405 - Method Not Allowed	The resource does not allow this method request, for example, you send a GET request to the resource /create-account when it was expecting a POST request instead.
404 - Page Not Found	The page/resource you requested does not exist.
500 - Internal Service Error	The server has encountered some kind of error with your request that it doesn't know how to handle properly.
503 - Service Unavailable	This server cannot handle your request as it's either overloaded or down for maintenance.

Click the "View Site" button on the right to see what some of these HTTP status messages look like in a browser.

Answer the questions below

What response code might you receive if you've created a new user or blog post article?

201

✓ Correct Answer

What response code might you receive if you've tried to access a page that doesn't exist?

404

✓ Correct Answer

What response code might you receive if the web server cannot access its database and the application crashes?

503

✓ Correct Answer

What response code might you receive if you try to edit your profile without logging in first?

401

✓ Correct Answer

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10. Task 5.

Room progress (72%)

Content-Length: When sending data to a web server such as in a form, the content length tells the web server how much data to expect in the web request. ensure it isn't missing any data.

Accept-Encoding: Tells the web server what types of compression methods the browser supports so the data can be made smaller for transmitting over the internet.

Cookie: Data sent to the server to help remember your information (see cookies task for more information).

Common Response Headers

These are the headers that are returned to the client from the server after a request.

Set-Cookie: Information to store which gets sent back to the web server on each request (see cookies task for more information).

Cache-Control: How long to store the content of the response in the browser's cache before it requests it again.

Content-Type: This tells the client what type of data is being returned, i.e., HTML, CSS, JavaScript, Images, PDF, Video, etc. Using the content-type header the browser then knows how to process the data.

Content-Encoding: What method has been used to compress the data to make it smaller when sending it over the internet.

Answer the questions below

What header tells the web server what browser is being used?

User-Agent ✓ Correct Answer

What header tells the browser what type of data is being returned?

Content-Type ✓ Correct Answer

What header tells the web server which website is being requested?

Host ✓ Correct Answer

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11. Task 6.

Room progress (72%)

HTTP/1.1 200 OK
Server: nginx/1.15.8
Date: Wed, 14 Apr 2021 09:08:19 GMT
Set-Cookie: username=adam
Content-Type: text/html; charset=UTF-8
HTML DATA_

GET / HTTP/1.1
Host: cookies.thm
User-Agent: xxxx
Cookie: username=adam

HTTP/1.1 200 OK
Server: nginx/1.15.8
Date: Wed, 14 Apr 2021 09:08:19 GMT
Content-Type: text/html; charset=UTF-8
<html>body=Welcome back adam/body</html>

The server responds with a Set-Cookie header telling the client to save the data name=adam

On the next and every further request the client sends the cookie data back to the server

The server then sees the cookie data and instead of displaying the form it displays a welcome back message instead

Cookies can be used for many purposes but are most commonly used for website authentication. The cookie value won't usually be a clear-text string where you can see the password, but a token (unique secret code that isn't easily humanly guessable).

Viewing Your Cookies

You can easily view what cookies your browser is sending to a website by using the developer tools, in your browser. If you're not sure how to get to the developer tools in your browser, click on the "View Site" button at the top of this task for a how-to guide.

Once you have developer tools open, click on the "Network" tab. This tab will show you a list of all the resources your browser has requested. You can click on each one to receive a detailed breakdown of the request and response. If your browser sent a cookie, you will see these on the "Cookies" tab of the request.

Answer the questions below

Which header is used to save cookies to your computer?

Set-Cookie ✓ Correct Answer

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12. Task 7.

Room completed (100%)

Task 7 Making Requests

Click the "View Site" button on the right.

This is an emulator for making demo HTTP requests, using what you've learnt from the above tasks you can use it to complete the below questions.

View Site

Answer the questions below

Make a GET request to /room

THM{YOU'RE_IN_THE_ROOM} ✓ Correct Answer Hint

Make a GET request to /blog and using the gear icon set the id parameter to 1 in the URL field

THM{YOU_FOUND_THE_BLOG} ✓ Correct Answer

Make a DELETE request to /user/1

THM{USER_IS_DELETED} ✓ Correct Answer

Make a PUT request to /user/2 with the username parameter set to admin

THM{USER_HAS_UPDATED} ✓ Correct Answer Hint

POST the username of thm and a password of letmein to /login

THM{HTTP_REQUEST_MASTER} ✓ Correct Answer Hint

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13. Maka selesai sudah room “HTTP In Detail”

✔ Woop woop! Your answer is correct

Congratulations on completing HTTP in Detail!!! 🎉

Points earned 🏆 176	Completed tasks 📋 7	Room type 🧭 Walkthrough	Difficulty 📶 Easy	Streak 🔥 2
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