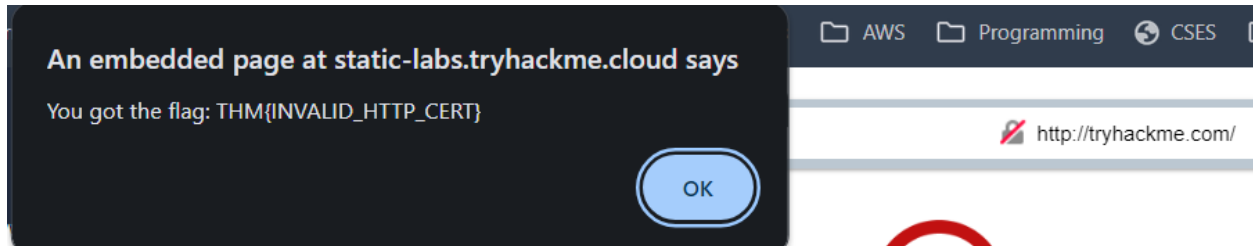


Network Fundamentals

HTTP in Detail

Task 1:



What does HTTP stand for?

HyperText Transfer Protocol

✓ Correct Answer

What does the S in HTTPS stand for?

secure

✓ Correct Answer

On the mock webpage on the right there is an issue, once you've found it, click on it. What is the challenge flag?

THM{INVALID_HTTP_CERT}

✓ Correct Answer

Task 2:

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

Task 3:

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

Task 4:

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

Task 5:

Headers are additional bits of data you can send to the web server when making requests.

User-Agent: This is your browser software and version number

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

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.

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

Task 6:



Answer the questions below

Which header is used to save cookies to your computer?

Set-Cookie

✓ Correct Answer

Task 7:

GET /room HTTP/1.1
Host: tryhackme.com
User-Agent: Mozilla/5.0 Firefox/87.0
Content-Length: 0

Response

HTTP/1.1 200 Ok
Server: nginx/1.15.8
Fri, 4 Oct 2024 21:6:19 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 252
Last-Modified: Fri, 4 Oct 2024 21:6:19 GMT

<html>
<head>
 <title>TryHackMe</title>
</head>
<body>
 Welcome to the Room page THM{YOU'RE_IN_THE_ROOM}
</body>
</html>

GET /blog HTTP/1.1
Host: tryhackme.com
User-Agent: Mozilla/5.0 Firefox/87.0
Content-Length: 0

Response

HTTP/1.1 200 Ok
Server: nginx/1.15.8
Fri, 4 Oct 2024 21:6:19 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 252
Last-Modified: Fri, 4 Oct 2024 21:6:19 GMT

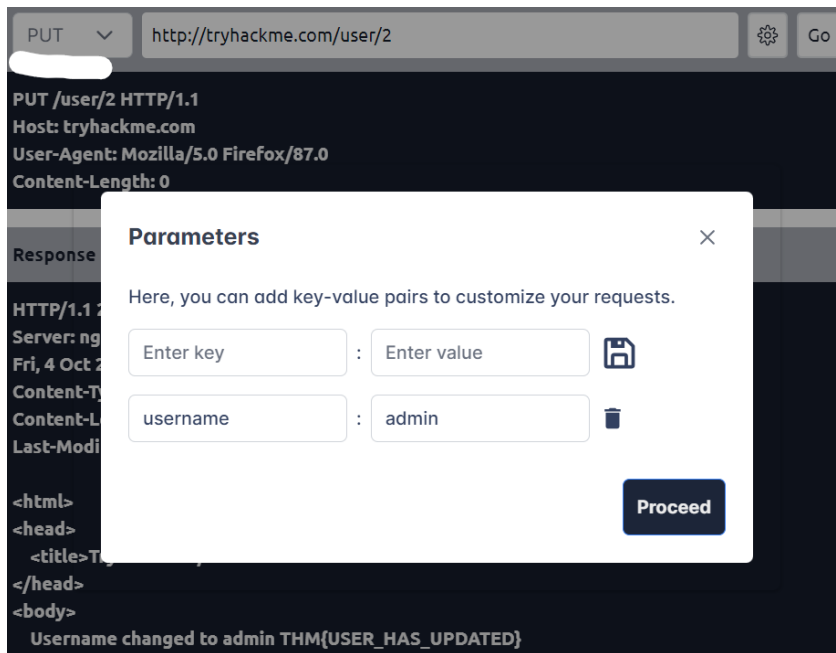
<html>
<head>
 <title>TryHackMe</title>
</head>
<body>
 Viewing Blog article 1 THM{YOU_FOUND_THE BLOG}

Parameters [X]

Here, you can add key-value pairs to customize your requests.

Enter key	:	Enter value	
id	:	1	

Proceed



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