[1. Limit overrun race conditions 1](#_Toc214214357)

[2. Bypassing rate limits via race conditions 5](#_Toc214214358)

[3. Multi-endpoint race conditions 8](#_Toc214214359)

[4. Single-endpoint race conditions 13](#_Toc214214360)

[5. Exploiting time-sensitive vulnerabilities 18](#_Toc214214361)

# Limit overrun race conditions

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A number and math equation

AI-generated content may be incorrect.

A screenshot of a website

AI-generated content may be incorrect.

# Bypassing rate limits via race conditions

A screenshot of a login form

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a chat

AI-generated content may be incorrect.

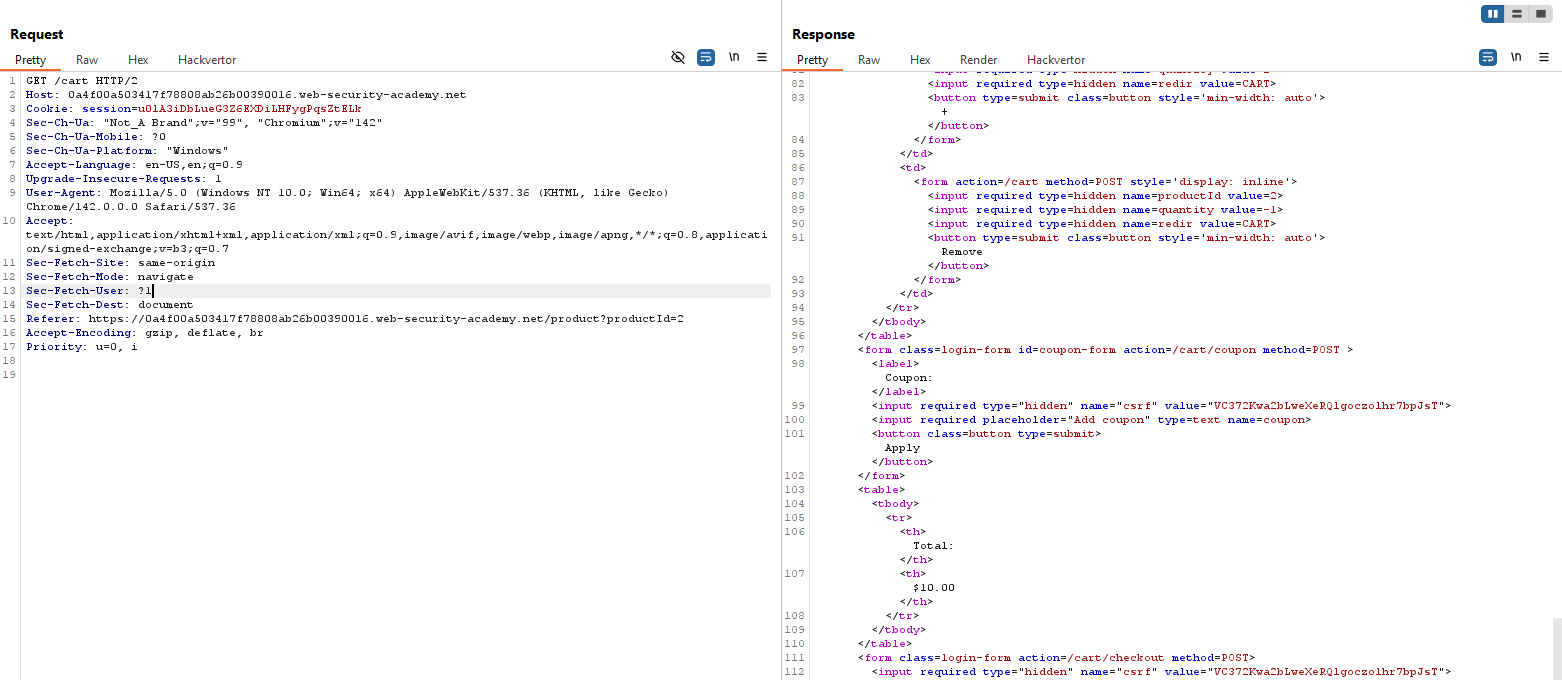
A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

# Multi-endpoint race conditions



A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Look at the time

Now take a get request to homepage to the start of the group. Lets see the time of the second request (the first one in the begin).

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Change the productID to 1 (lethal jacket)

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

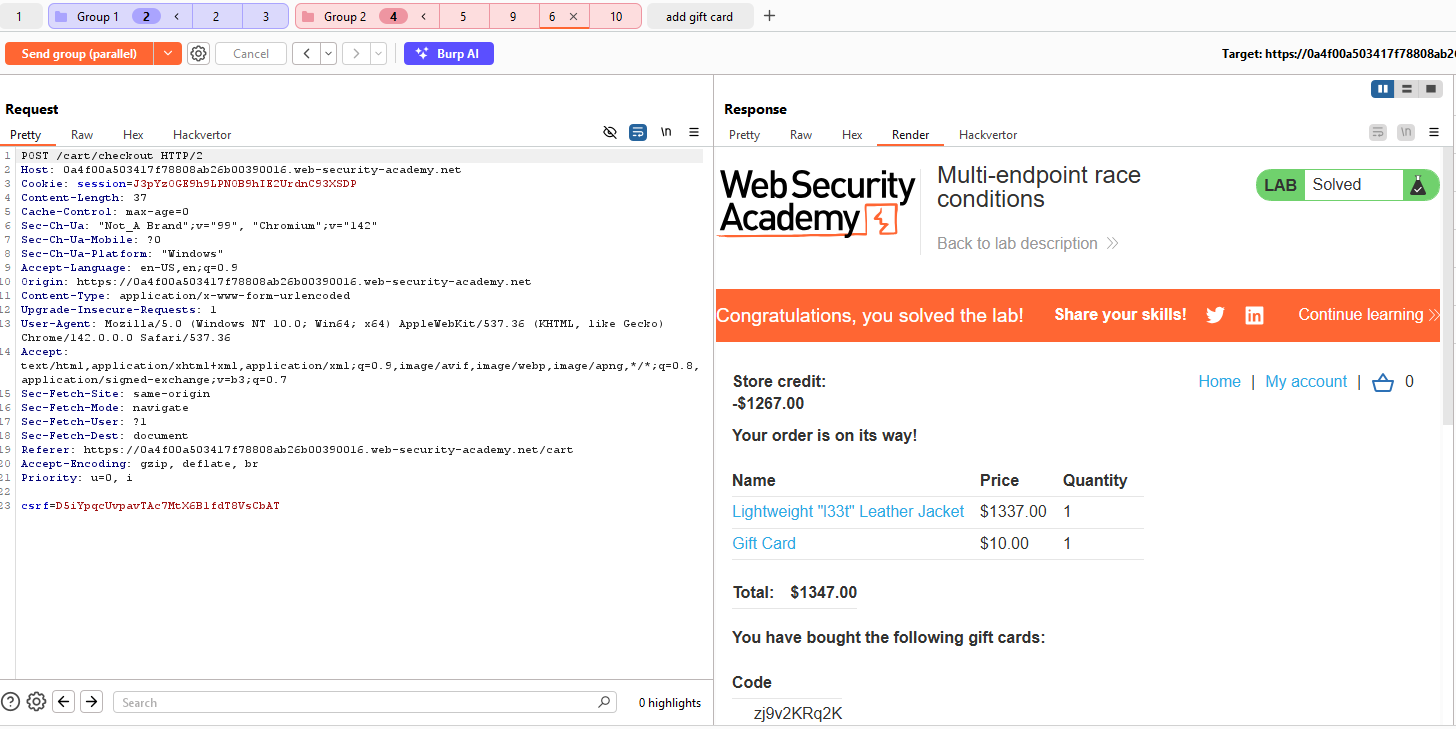
Can see that error insufficient\_funds above

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

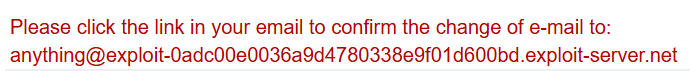
AI-generated content may be incorrect.



# Single-endpoint race conditions

A screenshot of a computer

AI-generated content may be incorrect.



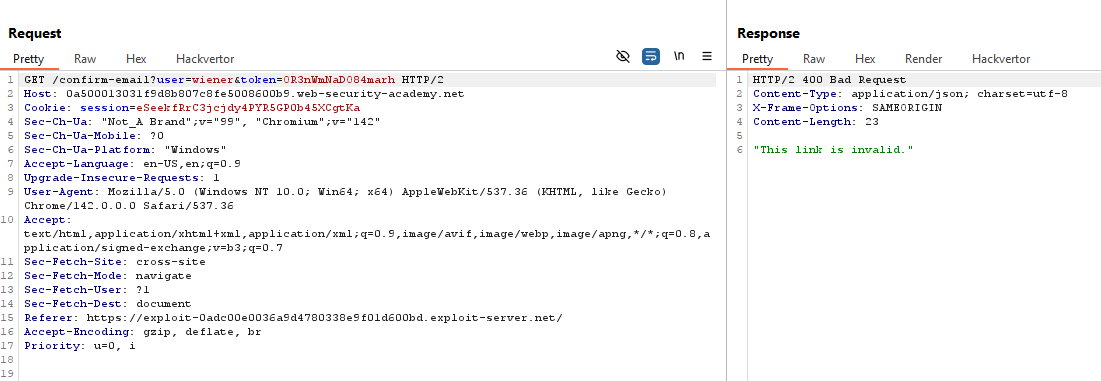
A screenshot of a computer

AI-generated content may be incorrect.



A screenshot of a computer

AI-generated content may be incorrect.



A screenshot of a computer

AI-generated content may be incorrect.

Duplicate 19



A close up of a message

AI-generated content may be incorrect.

Send the group of requests in sequence over separate connections

A screenshot of a computer

AI-generated content may be incorrect.

end the group of requests again, but this time in parallel

A screenshot of a computer

AI-generated content may be incorrect.

In Repeater, create a new group containing two copies of the POST /my-account/change-email request.

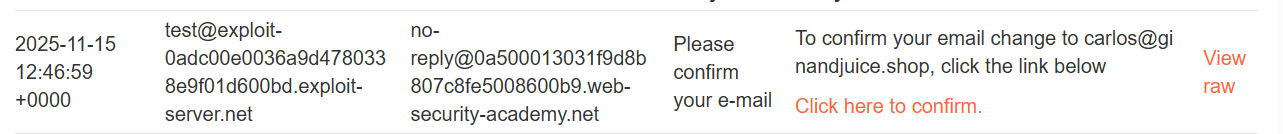
A screenshot of a computer

AI-generated content may be incorrect.

Change the email parameter of the other request to carlos@ginandjuice.shop.

A screenshot of a computer program

AI-generated content may be incorrect.



A screenshot of a computer

AI-generated content may be incorrect.

# Exploiting time-sensitive vulnerabilities

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.







A screenshot of a computer

AI-generated content may be incorrect.

Có thể cho rằng web sử dụng PHP backend dựa vào header cookie

A screenshot of a computer

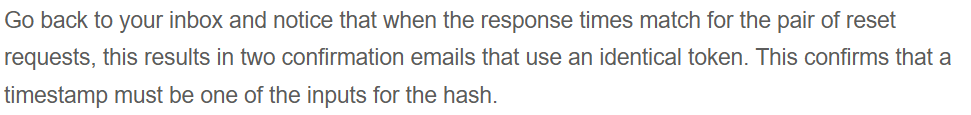
AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.







A screenshot of a computer

AI-generated content may be incorrect.