# 0d1n Web Hacking tool

Tool designed for bruteforcing Web Applications



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### Whoami

#### Author:

 Antonio Costa "CoolerVoid" is a Computer Programmer who loves the Hacker culture, he work as system analyst at CONVISO for three years. Nowadays, Antonio working with code review, pentest and security research with focus on Secure Web Applications and Reverse Engineering and he has speaking in some Brazilian Security Conferences such as YSTS, OWASP Florianopolis and Bsides Sao Paulo.



### Introduction

#### Software Information:

- 0d1n is a Open Source web application bruteforcer and Fuzzer, your objective is automate exhaustive tests to search anomalies, at other point view this anomalies can be a vulnerability, these test can follow web parameters, files, directories, forms and other things.
- 0d1n held by GPL v3 license: https://github.com/CoolerVoid/0d1n/blob/master/LICENSE.txt

### Introduction

#### Why this tool is made in C language?

- C have a high delay time for writing and debugging, but no pain no gain, have a fast performance, addition of this point, the C language is run at any architecture like Mips,ARM and others... at the future can follow mobile implementations. other benefits of C, have good and high profile to write optimizations, if you think write some lines in ASSEMBLY code with AES-NI or SiMD instructions, i think is good choice.
- Why you not use POO? in this project i follow "KISS" principe: http://pt.wikipedia.org/wiki/Keep\_It\_Simple
- C language have a lot old school dudes like a kernel hackers...

### Introduction

#### Requirements:

- Need "GCC" and "make"
- You must install "libcurl"
- Search libcurl-devel or libcurl-dev in your portage
- Current version tested only Unix Like systems(Linux, MacOS and \*BSD).
- Current version run well, but is a BeTa version, you can report bug here: https://github.com/CoolerVoid/0d1n/issues

### How you can use it

Following this to get, decompress, compile and execute:

- wget https://github.com/CoolerVoid/0d1n/archive/master.zip;
- unzip master.zip; cd 0d1n-master; make; ./0d1n

### First overview at parameters

```
--host :
               Host to scan or GET method to fuzz site.com/page.jsp?var=^&var2=^
               POST method fuzz params ex: 'var=^&x=^...'
--post :
             COOKIE fuzz params ex: 'var=^&var2=^...'
--cookie :
--custom :
             Load external HTTP Request file to fuzzing points with lexical char '^' '
            UserAgent fuzz params ex: 'firefox version ^...'
--agent :
--method:
             Change method to Custom http method like DELETE, PUT, TRACE, CONNECT...
             Add line on http header
--header ·
--payloads :
               Payload list to inject
--find string list: Strings list to find on response
--find regex list: Regex list to find on response(this regex is posix)
--cookie iar : Load cookie iar file
--log : Create text output of result
-- UserAgent : Custom UserAgent
--CA certificate :
                     Load CA certificate to work with SSL
--SSL version : Choice SSL version
       1 = TLSv1
       2 = SSL v2
       3 = SSLv3
-- threads : Number of threads to use, default is 4
--timeout : Timeout to wait Response
--proxy : Proxy_address:port to use single proxy tunnel
       example: format [protocol://][user:password@]machine[:port]
--proxy-rand : Use proxy list to use random proxy per Request
       example: format [protocol://][user:password@]machine[:port]
-- tamper : Payload tamper to try bypass filters
  Choice one option :
   encode64 : to encode payload to 64 base
   randcase: to use lower and upper case random position in string
   urlencode: converts characters into a format that can be transmitted over the Internet, percent encoding
   double urlencode : converts payload two times with urlencode
   spaces2comment: change spaces' ' to comment '/**/'
   unmagicquote: change apostrophe to a multi-byte %bf%27
   apostrophe2nullencode: change apostrophe to illegal double unicode counterpart
   rand comment: to use random comment '/**/' position in payload string
   rand space: write random ' ' blank spaces
```

## First overview at parameters

#### Rules you need know about parameters:

- Each parameter is a resource function to help you
- When you view caracter '^'(circumflex) this is lexical caracter this represent the payload to replace each line in text file
- The parameter "–log" you need use always
- The parameter "-host" you need use always
- The parameter "-save\_response" if you use on end command, save Responses of requests, so if you click in "status code" at javascript table you can view response with highlights

## First overview at parameters

#### Tamper resource:

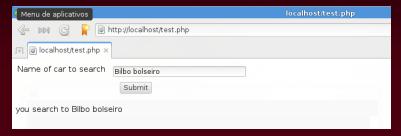
- Tamper is a function to use camouflage in your payload, this way you can try bypass web application firewall
- Each options use different technique to try hide payload
- You need remember to use proxy list per Request to try walk in stealth to work without blacklists.



At test.php file you can view this source code, look don't have sanitization at POST input:

```
cooler@obiwan:~/ssh
                                        <form name="htmlform" method="post" action="test.php">
  <label for="first name">Name of car to search</label>
  <input type="text" name="car name" maxlength="50" size="30">
  13 
  <input type="submit" value="Submit">
   <?php
  if($ POST['car name'])
        print "you search to ".$ POST['car name']."\n";
```

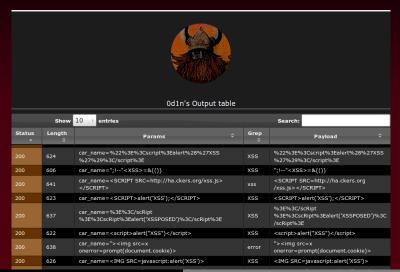
If you upload at your HTTP server, when rendering with browser return this following:



#### Following this to test application:

./0d1n -host http://localhost/test.php -post "car\_name=^" "
 -payloads payloads/xss.txt -find\_regex\_list
 payloads/guess.txt -log name\_log -save\_response

Result of command generate HTML file with javascript table:



If you click at number of Status you can view response with highlights:

```
HTTP/1.1 200 OK
Date: Tue, 24 Feb 2015 01:02:54 GMT
Server: Apache/2.4.10 (Fedora) PHP/5.6.5
X-Powered-By: PHP/5.6.5
Content-Length: 497
Content-Type: text/html; charset=UTF-8
<form name="htmlform" method="post" action="test.php">
<label for="first name">Name of car to search</label>
<input type="text" name="car name" maxlength="50" size="30">
<input type="submit" value="Submit">
you search to <h1 onerror=alert(/@0x6D6172696F/)>XSS BY ALEX</h1><style>
```

Other way to test, you can use your custom request on external file:

```
[cooler@obiwan Odln] $ cat my_request.txt

POST /test.php HTTP/1.1

Host: localhost
User-Agent: Mozilla/5.0 (X11; Linux i686; rv:35.0) Gecko/20100101 Firefox/35.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: pt-BR,pt;q=0.8,en-Us;q=0.5,en;q=0.3

Referer: http://localhost/test.php

Content-Type: application/x-www-form-urlencoded

car_name=^
```

You can follow this command to make custom fuzzing:

 ./0d1n –host http://localhost/ –custom my\_request.txt –payloads payloads/xss.txt –find\_regex\_list payloads/guess.txt –log 133oooo5 –save\_response –timeout 5

## Frenetic questions

- How do i can enter in auth to fuzz other application? You need Load cookie jar file.
- how do i can use multiples special chars ^ to fuzz more parameters ? Yes you can do it, put more chars ^ in the parameters.
- how many threads i can use? Depend of your machine, i recommend don't send lot a requests for the server, because this is a deep pitfall you can get down the server, if server runs in production you lost money this is very boring...
- Do you have doubt ? send me e-mail...

## The End



### Greets

- IAK, Sigsegv, M0nad, Slyfunky, RaphaelSC, pl4nkton, gustavoRobertux, Muzgo, Mente binaria, Otacon...
- HB, F-117, Eremita, Clandestine, Loganbr, Geyslan, Clodonil Trigo...
- my parents and friends...
- https://conviso.com.br/index.php/EN

## at construction...