



CRYPTUS CYBER
SECURITY PVT. LTD.

Module:

DIRB-(A web content scanner)



What is Dirb

DIRB is a command line based tool to brute force any directory based on wordlists. DIRB will make an HTTP request and see the HTTP response code of each request

How it works

It internally has a wordlist file which has by default around 4000 words for brute force attack. There are a lot of updated wordlists available over the internet which can also be used. Dirb searches for the words in its wordlist in every directory or object of a website or a server. It might be an admin panel or a subdirectory that is vulnerable to attack. The key is to find the objects as they are generally hidden.

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How to get it?

Download Dirb via Github: <https://github.com/seifreed/dirb>

Download Dirb via Sourceforge:

<https://sourceforge.net/projects/dirb/>

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Note : I used Kali Linux and Dirb comes pre-installed with Kali.

Purpose of Dirb in Security testing:

Purpose of DIRB is to help in professional and web application auditing in security testing. DIRB looks for almost all the web objects that other generic CGI scanners can't look for. It doesn't look for vulnerabilities but it looks for the web contents that can be vulnerable.

Using Dirb:

Step 1 — Open Terminal

Step 2 — Start Dirb

Once we have a terminal open, go ahead and type dirb to get the help screen.

Kali> dirb

```
File Actions Edit View Help
(root@kali)~# dirb

DIRB v2.22
By The Dark Raver

dirb <url_base> [<wordlist_file(s)>] [options]

===== NOTES =====
<url_base> : Base URL to scan. (Use -resume for session resuming)
<wordlist_file(s)> : List of wordfiles. (wordfile1,wordfile2,wordfile3 ...)

===== HOTKEYS =====
'n' → Go to next directory.
'q' → Stop scan. (Saving state for resume)
'r' → Remaining scan stats.

===== OPTIONS =====
-a <agent_string> : Specify your custom USER_AGENT.
-b : Use path as is.
-c <cookie_string> : Set a cookie for the HTTP request.
```



```
File Actions Edit View Help

===== OPTIONS =====
-a <agent_string> : Specify your custom USER_AGENT.
-b : Use path as is.
-c <cookie_string> : Set a cookie for the HTTP request.
-E <certificate> : path to the client certificate.
-f : Fine tuning of NOT_FOUND (404) detection.
-H <header_string> : Add a custom header to the HTTP request.
-i : Use case-insensitive search.
-l : Print "Location" header when found.
-N <nf_code>: Ignore responses with this HTTP code.
-o <output_file> : Save output to disk.
-p <proxy[:port]> : Use this proxy. (Default port is 1080)
-P <proxy_username:proxy_password> : Proxy Authentication.
-r : Don't search recursively.
-R : Interactive recursion. (Asks for each directory)
-S : Silent Mode. Don't show tested words. (For dumb terminals)
-t : Don't force an ending '/' on URLs.
-u <username:password> : HTTP Authentication.
-v : Show also NOT_FOUND pages.
-w : Don't stop on WARNING messages.
-X <extensions> / -x <exts_file> : Append each word with this extensions.
-z <millisecs> : Add a milliseconds delay to not cause excessive Flood.
```

As you can see in this screenshot above, DIRB's syntax is very simple with multiple options. In its simplest form, we only need to type the command dirb followed by the URL of the website we are testing.

Kali> dirb URL

Step 3 — Dirb for simple hidden object scan

with the Dirb's default word list file it searches the URL for 4612 Object types. Let's try it on test site, webscantest.com.

kali > dirb <http://testingsite.com>

DIRB begins the scan looking for those keywords among the website objects.

The results list with the response code and the size of the file for each ping. Also, dirb starts searching the files of the folder which returns the response code as 200. It searches the entire folders with the wordlist and displays the results.



NOT all the same. DIRB can help us look for specific vulnerable objects specific to the particular technology.

In Kali, DIRB has specific wordlists to search for these vulnerable often hidden objects. You can find them at:

```
kali > cd /usr/share/dirb/wordlists/vuln
```

Then list the contents of that directory:

