

**Skipfish** is an active web application security reconnaissance tool. It prepares an interactive sitemap for the targeted site by carrying out a recursive crawl and dictionary-based probes.

The resulting map is then annotated with the output from a number of active (but hopefully non-disruptive) security checks. The final report generated by the tool is meant to serve as a foundation for professional **web application security** assessments.

Also, learn an [Advanced Web Hacking & Penetration Testing Course](#) – Scratch to Advance

## Main Feature

- 500+ against Internet targets, 2000+ requests per second on LAN / MAN networks, and 7000+ requests against local instances.
- Automatic word list construction based on site content analysis.
- Heuristic recognition of obscure path and query-based parameter handling schemes.
- Snort style content signatures which will highlight server errors, information leaks or potentially dangerous web applications.
- Bundled security checks are designed to handle tricky scenarios: **Stored XSS** (path, parameters, headers), blind SQL or XML injection, or blind shell injection.

Also Read : [Commix – Automated All-in-One OS Command Injection and Exploitation Tool](#)

## To Run this Web application security scanner

Step1: To get all the parameters of type **skipfish -h**

[root@kali:~# skipfish -h](#)

```
root@kali: ~  
File Edit View Search Terminal Help  
root@kali:~# skipfish -h  
skipfish web application scanner - version 2.10b  
Usage: skipfish [ options ... ] -W wordlist -o output_dir start_url [ start_url2  
... ]  
  
Authentication and access options:  
  
-A user:pass      - use specified HTTP authentication credentials  
-F host=IP        - pretend that 'host' resolves to 'IP'  
-C name=val       - append a custom cookie to all requests  
-H name=val       - append a custom HTTP header to all requests  
-b (i|f|p)       - use headers consistent with MSIE / Firefox / iPhone  
-N               - do not accept any new cookies  
--auth-form url   - form authentication URL  
--auth-user user  - form authentication user  
--auth-pass pass  - form authentication password  
--auth-verify-url - URL for in-session detection  
  
Crawl scope options:  
  
-d max_depth      - maximum crawl tree depth (16)  
-c max_child      - maximum children to index per node (512)  
-x max_desc       - maximum descendants to index per branch (8192)  
-r r_limit        - max total number of requests to send (100000000)
```

Step2: To scan the target and to write the output in the directory.

[root@kali:~# skipfish -d -o 202 http://192.168.169.130/](#)

```
root@kali: ~  
File Edit View Search Terminal Help  
skipfish version 2.10b by lcantuf@google.comn, 12316 kB out (94.0 kB/s) 1 val  
skipfish version 2.10b by lcantuf@google.comn, 12324 kB out (93.4 kB/s) 1 val  
- 192.168.169.130 -1:05.406/s), 48709 kB in, 12330 kB out (92.7 kB/s) 1 val  
- 192.168.169.130 -1:10.072/s), 48728 kB in, 12334 kB out (91.8 kB/s) 1 val  
Scan statistics: 0:11:14.116/s), 48758 kB in, 12341 kB out (91.2 kB/s) 1 val  
Scan statistics: 0:11:18.320/s), 48793 kB in, 12349 kB out (90.7 kB/s) 1 val  
Scan time : 0:11:23.696/s), 48826 kB in, 12357 kB out (90.2 kB/s) 1 val  
Scan time : 0:11:24.550/s), 48854 kB in, 12364 kB out (89.5 kB/s) 1 val  
HTTP requests : 59839 (87.6/s), 48862 kB in, 12366 kB out (89.4 kB/s) 1 val  
Compression : 28618 kB in, 129029 kB out (63.7% gain) 0 dropsr, 381 val  
HTTP faults : 247 net errors, 0 proto errors, 0 retried, 0 dropsr, 381 val  
TCP handshakes : 838 total (72.6 req/conn) purgedict kn, 46 par, 381 val  
TCP faults : 0 failures, 247 timeouts, 1 purgedict kn, 46 par, 381 val  
External links : 5603 skipped79 done (97.38%) dict kn, 46 par, 381 val  
Reqs pending : 1030 79 done (97.38%) dict kn, 46 par, 381 val  
Database statistics:0 total, 779 done (97.38%) dict kn, 46 par, 381 val  
Database statistics:0 total, 779 done (97.38%) dict kn, 46 par, 381 val  
Pivots : 800 total, 779 done (97.38%) dict kn, 46 par, 381 val  
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In progress : 10 pending, 3 init, 1 attacks, 7 dict kn, 46 par, 381 val  
Missing nodes : 41 spotted dir, 276 file, 37 pininfo, 36 unkn, 46 par, 381 val  
Node types : 1 serv, 23 dir, 276 file, 37 pininfo, 36 unkn, 46 par, 381 val  
Issues found : 580 info, 7 warn, 2 low, 468 medium, 13 high impact  
Dict size : 151 words (151 new), 5 extensions, 256 candidates
```

It will go on scanning through every request, external/Internal links and statistics.

```
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skipfish version 2.10b by lcantuf@google.comn, 12324 kB out (93.4 kB/s) 1 val
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## Crawl results - click to expand:

**http://192.168.169.130/** 13 104 2 7 160 158  
Code: 200, length: 6033, declared: text/html, detected: application/xhtml+xml, charset: [none] [ show trace + ]

- Incorrect or missing charset (low risk)**
  - Code: 200, length: 6033, declared: text/html, detected: application/xhtml+xml, charset: [none] [ show trace + ]
- New 404 signature seen**
  - Code: 404, length: 296, declared: text/html, charset: iso-8859-1 [ show trace + ]
- New 'X-' header value seen**
  - Code: 200, length: 6033, declared: text/html, charset: [none] [ show trace + ]  
Memo: X-Powered-By
  - Code: 200, length: 6033, declared: text/html, charset: [none] [ show trace + ]  
Memo: X-XSS-Protection
- New 'Server' header value seen**
  - Code: 200, length: 6033, declared: text/html, charset: [none] [ show trace + ]  
Memo: Apache/2.2.16 (Debian)

**codeexec** 29 30 16  
Code: 200, length: 0, declared: text/html, charset: [none] [ show trace + ]

**commandexec** 2 6 5 16 8  
Code: 200, length: 0, declared: text/html, charset: [none] [ show trace + ]

Once the scan completed it will create a professional web application security assessments.





