

SlowHTTPTest Package Description

SlowHTTPTest is a highly configurable tool that simulates some Application Layer Denial of Service attacks. It works on majority of Linux platforms, OSX and Cygwin – a Unix-like environment and command-line interface for Microsoft Windows.

It implements most common low-bandwidth Application Layer DoS attacks, such as slowloris, Slow HTTP POST, Slow Read attack (based on TCP persist timer exploit) by draining concurrent connections pool, as well as Apache Range Header attack by causing very significant memory and CPU usage on the server.

Slowloris and Slow HTTP POST DoS attacks rely on the fact that the HTTP protocol, by design, requires requests to be completely received by the server before they are processed. If an HTTP request is not complete, or if the transfer rate is very low, the server keeps its resources busy waiting for the rest of the data. If the server keeps too many resources busy, this creates a denial of service. This tool is sending partial HTTP requests, trying to get denial of service from target HTTP server.

Source: <https://github.com/shekyan/slowhttptest>

[SlowHTTPTest Homepage](#) | [Kali SlowHTTPTest Repo](#)

- Author: shekyan
- License: Apache 2.0

Tools included in the slowhttptest package

slowhttptest – A tool to test for slow HTTP DoS vulnerabilities

```
root@kali:~# slowhttptest -h
```

slowhttptest, a tool to test for slow HTTP DoS vulnerabilities - version 1.6

Usage: slowhttptest [options ...]

Test modes:

- H slow headers a.k.a. Slowloris (default)
- B slow body a.k.a R-U-Dead-Yet
- R range attack a.k.a Apache killer
- X slow read a.k.a Slow Read

Reporting options:

- g generate statistics with socket state changes (off)
- o file_prefix save statistics output in file.html and file.csv (-g required)

-v level verbosity level 0-4: Fatal, Info, Error, Warning, Debug

General options:

-c connections target number of connections (50)
-i seconds interval between followup data in seconds (10)
-l seconds target test length in seconds (240)
-r rate connections per seconds (50)
-s bytes value of Content-Length header if needed (4096)
-t verb verb to use in request, default to GET for
 slow headers and response and to POST for slow body
-u URL absolute URL of target (http://localhost/)
-x bytes max length of each randomized name/value pair of
 followup data per tick, e.g. -x 2 generates
 X-xx: xx for header or &xx=xx for body, where x
 is random character (32)

Probe/Proxy options:

-d host:port all traffic directed through HTTP proxy at host:port (off)
-e host:port probe traffic directed through HTTP proxy at host:port (off)
-p seconds timeout to wait for HTTP response on probe connection,
 after which server is considered inaccessible (5)

Range attack specific options:

-a start left boundary of range in range header (5)
-b bytes limit for range header right boundary values (2000)

Slow read specific options:

-k num number of times to repeat same request in the connection. Use to
 multiply response size if server supports persistent connections (1)
-n seconds interval between read operations from recv buffer in seconds (1)
-w bytes start of the range advertised window size would be picked from (1)
-y bytes end of the range advertised window size would be picked from (512)
-z bytes bytes to slow read from receive buffer with single read() call (5)

slowhttptest Usage Example

Use 1000 connections (**-c 1000**) with the Slowloris mode (**-H**), and generate statistics (**-g**) with the output file name (**-o slowhttp**). Use 10 seconds to wait for data (**-i 10**), 200 connections (**-r 200**) with GET requests (**-t GET**) against the target

URL **(-u http://192.168.1.202/index.php)** with a maximum of length of 24 bytes **(-x 24)** and a 3 second time out **(-p 3)**:

```
root@kali:~# slowhttptest -c 1000 -H -g -o slowhttp -i 10 -r 200 -t GET -u http://192.168.1.202/index.php -x 24 -p 3
```

Sat May 17 10:45:26 2014:

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slowhttptest version 1.6

- https://code.google.com/p/slowhttptest/ -

test type: SLOW HEADERS

number of connections: 1000

URL: http://192.168.1.202/index.php

verb: GET

Content-Length header value: 4096

follow up data max size: 52

interval between follow up data: 10 seconds

connections per seconds: 200

probe connection timeout: 3 seconds

test duration: 240 seconds

using proxy: no proxy

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slow HTTP test status on 0th second:

initializing: 0

pending: 1

connected: 0

error: 0

closed: 0

service available: YES

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Kali Linux, the course required to
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Certified Professional (OSCP)

