

Usage: python3 sqlmap [options]

Options:

-h, --help	Show basic help message and exit
-hh	Show advanced help message and exit
--version	Show program's version number and exit
-v VERBOSE	Verbosity level: 0-6 (default 1)

Target:

At least one of these options has to be provided to define the target(s)

-u URL, --url=URL	Target URL (e.g. "http://www.site.com/vuln.php?id=1")
-d DIRECT	Connection string for direct database connection
-l LOGFILE	Parse target(s) from Burp or WebScarab proxy log file
-m BULKFILE	Scan multiple targets given in a textual file
-r REQUESTFILE	Load HTTP request from a file
-g GOOGLEDORK	Process Google dork results as target URLs
-c CONFIGFILE	Load options from a configuration INI file

Request:

These options can be used to specify how to connect to the target URL

-A AGENT, --user..	HTTP User-Agent header value
-H HEADER, --hea..	Extra header (e.g. "X-Forwarded-For: 127.0.0.1")
--method=METHOD	Force usage of given HTTP method (e.g. PUT)
--data=DATA	Data string to be sent through POST (e.g. "id=1")
--param-del=PARA..	Character used for splitting parameter values (e.g. &)
--cookie=COOKIE	HTTP Cookie header value (e.g. "PHPSESSID=a8d127e..")
--cookie-del=COO..	Character used for splitting cookie values (e.g. ;)
--live-cookies=L..	Live cookies file used for loading up-to-date values
--load-cookies=L..	File containing cookies in Netscape/wget format
--drop-set-cookie	Ignore Set-Cookie header from response
--mobile	Imitate smartphone through HTTP User-Agent header
--random-agent	Use randomly selected HTTP User-Agent header value
--host=HOST	HTTP Host header value
--referer=REFERER	HTTP Referer header value
--headers=HEADERS	Extra headers (e.g. "Accept-Language: fr\nETag: 123")

--auth-type=AUTH.. HTTP authentication type (Basic, Digest, Bearer, ...)
 --auth-cred=AUTH.. HTTP authentication credentials (name:password)
 --auth-file=AUTH.. HTTP authentication PEM cert/private key file
 --ignore-code=IG.. Ignore (problematic) HTTP error code (e.g. 401)
 --ignore-proxy Ignore system default proxy settings
 --ignore-redirects Ignore redirection attempts
 --ignore-timeouts Ignore connection timeouts
 --proxy=PROXY Use a proxy to connect to the target URL
 --proxy-cred=PRO.. Proxy authentication credentials (name:password)
 --proxy-file=PRO.. Load proxy list from a file
 --proxy-freq=PRO.. Requests between change of proxy from a given list
 --tor Use Tor anonymity network
 --tor-port=TORPORT Set Tor proxy port other than default
 --tor-type=ORTYPE Set Tor proxy type (HTTP, SOCKS4 or SOCKS5 (default))
 --check-tor Check to see if Tor is used properly
 --delay=DELAY Delay in seconds between each HTTP request
 --timeout=TIMEOUT Seconds to wait before timeout connection (default 30)
 --retries=RETRIES Retries when the connection timeouts (default 3)
 --retry-on=RETRYON Retry request on regexp matching content (e.g. "drop")
 --randomize=RPARAM Randomly change value for given parameter(s)
 --safe-url=SAFEURL URL address to visit frequently during testing
 --safe-post=SAFE.. POST data to send to a safe URL
 --safe-req=SAFER.. Load safe HTTP request from a file
 --safe-freq=SAFE.. Regular requests between visits to a safe URL
 --skip-urlencode Skip URL encoding of payload data
 --csrf-token=CSR.. Parameter used to hold anti-CSRF token
 --csrf-url=CSRFURL URL address to visit for extraction of anti-CSRF token
 --csrf-method=CS.. HTTP method to use during anti-CSRF token page visit
 --csrf-retries=C.. Retries for anti-CSRF token retrieval (default 0)
 --force-ssl Force usage of SSL/HTTPS
 --chunked Use HTTP chunked transfer encoded (POST) requests
 --hpp Use HTTP parameter pollution method
 --eval=EVALCODE Evaluate provided Python code before the request (e.g.
 "import hashlib;id2=hashlib.md5(id).hexdigest()")

Optimization:

These options can be used to optimize the performance of sqlmap

-o	Turn on all optimization switches
--predict-output	Predict common queries output
--keep-alive	Use persistent HTTP(s) connections
--null-connection	Retrieve page length without actual HTTP response body
--threads=THREADS	Max number of concurrent HTTP(s) requests (default 1)

Injection:

These options can be used to specify which parameters to test for, provide custom injection payloads and optional tampering scripts

-p TESTPARAMETER	Testable parameter(s)
--skip=SKIP	Skip testing for given parameter(s)
--skip-static	Skip testing parameters that not appear to be dynamic
--param-exclude=..	Regex to exclude parameters from testing (e.g. "ses")
--param-filter=P..	Select testable parameter(s) by place (e.g. "POST")
--dbms=DBMS	Force back-end DBMS to provided value
--dbms-cred=DBMS..	DBMS authentication credentials (user:password)
--os=OS	Force back-end DBMS operating system to provided value
--invalid-bignum	Use big numbers for invalidating values
--invalid-logical	Use logical operations for invalidating values
--invalid-string	Use random strings for invalidating values
--no-cast	Turn off payload casting mechanism
--no-escape	Turn off string escaping mechanism
--prefix=PREFIX	Injection payload prefix string
--suffix=SUFFIX	Injection payload suffix string
--tamper=TAMPER	Use given script(s) for tampering injection data

Detection:

These options can be used to customize the detection phase

--level=LEVEL	Level of tests to perform (1-5, default 1)
--risk=RISK	Risk of tests to perform (1-3, default 1)
--string=STRING	String to match when query is evaluated to True
--not-string=NOT..	String to match when query is evaluated to False
--regexp=REGEXP	Regex to match when query is evaluated to True
--code=CODE	HTTP code to match when query is evaluated to True
--smart	Perform thorough tests only if positive heuristic(s)

--text-only	Compare pages based only on the textual content
--titles	Compare pages based only on their titles

Techniques:

These options can be used to tweak testing of specific SQL injection techniques

--technique=TECH..	SQL injection techniques to use (default "BEUSTQ")
--time-sec=TIMESEC	Seconds to delay the DBMS response (default 5)
--union-cols=UCOLS	Range of columns to test for UNION query SQL injection
--union-char=UCHAR	Character to use for bruteforcing number of columns
--union-from=UFROM	Table to use in FROM part of UNION query SQL injection
--dns-domain=DNS..	Domain name used for DNS exfiltration attack
--second-url=SEC..	Resulting page URL searched for second-order response
--second-req=SEC..	Load second-order HTTP request from file

Fingerprint:

-f, --fingerprint	Perform an extensive DBMS version fingerprint
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Enumeration:

These options can be used to enumerate the back-end database management system information, structure and data contained in the tables

-a, --all	Retrieve everything
-b, --banner	Retrieve DBMS banner
--current-user	Retrieve DBMS current user
--current-db	Retrieve DBMS current database
--hostname	Retrieve DBMS server hostname
--is-dba	Detect if the DBMS current user is DBA
--users	Enumerate DBMS users
--passwords	Enumerate DBMS users password hashes
--privileges	Enumerate DBMS users privileges
--roles	Enumerate DBMS users roles
--dbs	Enumerate DBMS databases
--tables	Enumerate DBMS database tables
--columns	Enumerate DBMS database table columns
--schema	Enumerate DBMS schema

--count	Retrieve number of entries for table(s)
--dump	Dump DBMS database table entries
--dump-all	Dump all DBMS databases tables entries
--search	Search column(s), table(s) and/or database name(s)
--comments	Check for DBMS comments during enumeration
--statements	Retrieve SQL statements being run on DBMS
-D DB	DBMS database to enumerate
-T TBL	DBMS database table(s) to enumerate
-C COL	DBMS database table column(s) to enumerate
-X EXCLUDE	DBMS database identifier(s) to not enumerate
-U USER	DBMS user to enumerate
--exclude-sysdbs	Exclude DBMS system databases when enumerating tables
--pivot-column=P..	Pivot column name
--where=DUMPWHERE	Use WHERE condition while table dumping
--start=LIMITSTART	First dump table entry to retrieve
--stop=LIMITSTOP	Last dump table entry to retrieve
--first=FIRSTCHAR	First query output word character to retrieve
--last=LASTCHAR	Last query output word character to retrieve
--sql-query=SQLQ..	SQL statement to be executed
--sql-shell	Prompt for an interactive SQL shell
--sql-file=SQLFILE	Execute SQL statements from given file(s)

Brute force:

These options can be used to run brute force checks

--common-tables	Check existence of common tables
--common-columns	Check existence of common columns
--common-files	Check existence of common files

User-defined function injection:

These options can be used to create custom user-defined functions

--udf-inject	Inject custom user-defined functions
--shared-lib=SHLIB	Local path of the shared library

File system access:

These options can be used to access the back-end database management system underlying file system

--file-read=FILE.. Read a file from the back-end DBMS file system
--file-write=FILE.. Write a local file on the back-end DBMS file system
--file-dest=FILE.. Back-end DBMS absolute filepath to write to

Operating system access:

These options can be used to access the back-end database management system underlying operating system

--os-cmd=OSCMD Execute an operating system command
--os-shell Prompt for an interactive operating system shell
--os-pwn Prompt for an OOB shell, Meterpreter or VNC
--os-smbrelay One click prompt for an OOB shell, Meterpreter or VNC
--os-bof Stored procedure buffer overflow exploitation
--priv-esc Database process user privilege escalation
--msf-path=MSFPATH Local path where Metasploit Framework is installed
--tmp-path=TMPPATH Remote absolute path of temporary files directory

Windows registry access:

These options can be used to access the back-end database management system Windows registry

--reg-read Read a Windows registry key value
--reg-add Write a Windows registry key value data
--reg-del Delete a Windows registry key value
--reg-key=REGKEY Windows registry key
--reg-value=REGVAL Windows registry key value
--reg-data=REGDATA Windows registry key value data
--reg-type=REGTYPE Windows registry key value type

General:

These options can be used to set some general working parameters

-s SESSIONFILE Load session from a stored (.sqlite) file
-t TRAFFICFILE Log all HTTP traffic into a textual file
--answers=ANSWERS Set predefined answers (e.g. "quit=N, follow=N")
--base64=BASE64P.. Parameter(s) containing Base64 encoded data
--base64-safe Use URL and filename safe Base64 alphabet (RFC 4648)

--batch Never ask for user input, use the default behavior
 --binary-fields=.. Result fields having binary values (e.g. "digest")
 --check-internet Check Internet connection before assessing the target
 --cleanup Clean up the DBMS from sqlmap specific UDF and tables
 --crawl=CRAWLDEPTH Crawl the website starting from the target URL
 --crawl-exclude=.. Regexp to exclude pages from crawling (e.g. "logout")
 --csv-del=CSVDEL Delimiting character used in CSV output (default ",")
 --charset=CHARSET Blind SQL injection charset (e.g. "0123456789abcdef")
 --dump-format=DU.. Format of dumped data (CSV (default), HTML or SQLITE)
 --encoding=ENCOD.. Character encoding used for data retrieval (e.g. GBK)
 --eta Display for each output the estimated time of arrival
 --flush-session Flush session files for current target
 --forms Parse and test forms on target URL
 --fresh-queries Ignore query results stored in session file
 --gpage=GOOGLEPAGE Use Google dork results from specified page number
 --har=HARFILE Log all HTTP traffic into a HAR file
 --hex Use hex conversion during data retrieval
 --output-dir=OUT.. Custom output directory path
 --parse-errors Parse and display DBMS error messages from responses
 --preprocess=PRE.. Use given script(s) for preprocessing (request)
 --postprocess=PO.. Use given script(s) for postprocessing (response)
 --repair Redump entries having unknown character marker (?)
 --save=SAVECONFIG Save options to a configuration INI file
 --scope=SCOPE Regexp for filtering targets
 --skip-heuristics Skip heuristic detection of vulnerabilities
 --skip-waf Skip heuristic detection of WAF/IPS protection
 --table-prefix=T.. Prefix used for temporary tables (default: "sqlmap")
 --test-filter=TE.. Select tests by payloads and/or titles (e.g. ROW)
 --test-skip=TEST.. Skip tests by payloads and/or titles (e.g. BENCHMARK)
 --web-root=WEBROOT Web server document root directory (e.g. "/var/www")

Miscellaneous:

These options do not fit into any other category

-z MNEMONICS Use short mnemonics (e.g. "flu,bat,ban,tec=EU")
 --alert=ALERT Run host OS command(s) when SQL injection is found
 --beep Beep on question and/or when vulnerability is found
 --dependencies Check for missing (optional) sqlmap dependencies

<code>--disable-coloring</code>	Disable console output coloring
<code>--list-tampers</code>	Display list of available tamper scripts
<code>--no-logging</code>	Disable logging to a file
<code>--offline</code>	Work in offline mode (only use session data)
<code>--purge</code>	Safely remove all content from sqlmap data directory
<code>--results-file=R..</code>	Location of CSV results file in multiple targets mode
<code>--shell</code>	Prompt for an interactive sqlmap shell
<code>--tmp-dir=TMPDIR</code>	Local directory for storing temporary files
<code>--unstable</code>	Adjust options for unstable connections
<code>--update</code>	Update sqlmap
<code>--wizard</code>	Simple wizard interface for beginner users