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Nmap Security Scanner

- Intro
- Ref Guide
- Install Guide
- Download
- Changelog
- Book
- Docs

Security Lists

- Nmap Announce
- Nmap Dev
- Bugtrag
- Full Disclosure
- Pen Test
- Basics
- More

Security Tools

- Password audit
- Sniffers
- Vuln scanners
- Web scanners
- Wireless
- Exploitation
- Packet crafters
- More

Site News Advertising About/Contact

Site Search

Sponsors:





Intro Reference Guide Book Install Guide

<u>Download</u> <u>Changelog</u> <u>Zenmap</u> <u>GUI</u> <u>Docs</u>

Bug
ReportsOS DetectionPropagandaRelated
Projects

<u>In the Movies</u> <u>In the News</u>

Nmap Network Scanning

Nmap Scripting Engine (NSE)

Chapter 15. Nmap Reference Guide



Nmap Scripting Engine (NSE)

The Nmap Scripting Engine (NSE) is one of Nmap's most powerful and flexible features. It allows users to write (and share) simple scripts (using the <u>Lua programming language</u>) to automate a wide variety of networking tasks. Those scripts are executed in parallel with the speed and efficiency you expect from Nmap. Users can rely on the growing and diverse set of scripts distributed with Nmap, or write their own to meet custom needs.

Tasks we had in mind when creating the system include network discovery, more sophisticated version detection, vulnerability detection. NSE can even be used for vulnerability exploitation.

To reflect those different uses and to simplify the choice of which scripts to run, each script contains a field associating it with one or more categories. Currently defined categories are auth, broadcast, default. discovery, dos, exploit, external, fuzzer, intrusive, malware, safe, version, and vuln. These are all described in the section called "Script Categories".

Scripts are not run in a sandbox and thus could accidentally or maliciously damage your system or invade your privacy. Never run scripts from third parties unless you trust the authors or have carefully audited the scripts yourself.

The Nmap Scripting Engine is described in detail in <u>Chapter 9, Nmap Scripting Engine</u> and is controlled by the following options:

-sC

Performs a script scan using the default set of scripts. It is equivalent to --script=default. Some of the scripts in this category are considered intrusive and should not be run against a target network without permission.

--script <filename>|<category>|<directory>/|<expression>[,...]

Runs a script scan using the comma-separated list of filenames, script categories, and directories. Each element in the list may also be a Boolean expression describing a more complex set of scripts. Each element is interpreted first as an expression, then as a category, and finally as a file or directory name.

There are two special features for advanced users only. One is to prefix script names and expressions with + to force them to run even if they normally wouldn't (e.g. the relevant service wasn't detected on the target port). The other is that the argument all may be used to specify every

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·-빌 추 script in Nmap's database. Be cautious with this because NSE contains dangerous scripts such as exploits, brute force authentication crackers, and denial of service attacks.

File and directory names may be relative or absolute. Absolute names are used directly. Relative paths are looked for in the scripts of each of the following places until found:

--datadir \$NMAPDIR

~/.nmap (not searched on Windows)

<aPPDATA>\(\text{Wnmap}\) (only on Windows)

the directory containing the nmap executable

the directory containing the nmap executable, followed by ../share/nmap (not searched on Windows) NMAPDATADIR (not searched on Windows)

the current directory.

When a directory name ending in / is given, Nmap loads every file in the directory whose name ends with .nse. All other files are ignored and directories are not searched recursively. When a filename is given, it does not have to have the .nse extension; it will be added automatically if necessary.

Nmap scripts are stored in a scripts subdirectory of the Nmap data directory by default (see <u>Chapter 14, Understanding and Customizing Nmap Data Files</u>). For efficiency, scripts are indexed in a database stored in scripts/script.db, which lists the category or categories in which each script belongs.

When referring to scripts from script.db by name, you can use a shell-style '*' wildcard.

nmap --script "http-*"

Loads all scripts whose name starts with http-, such as http-auth and http-open-proxy. The argument to --script had to be in quotes to protect the wildcard from the shell.

More complicated script selection can be done using the and, or, and not operators to build Boolean expressions. The operators have the same <u>precedence</u> as in Lua: not is the highest, followed by and and then or. You can alter precedence by using parentheses. Because expressions contain space characters it is necessary to quote them.

nmap --script "not intrusive"

Loads every script except for those in the intrusive category.

nmap --script "default or safe"

This is functionally equivalent to **nmap** --script "default,safe". It loads all scripts that are in the default category or the safe category or both.

nmap --script "default and safe"

Loads those scripts that are in both the default and safe categories.

nmap --script "(default or safe or intrusive) and not http-*"

Loads scripts in the default, safe, or intrusive categories, except for those whose names start with http-.

--script-args <n1>=<v1>,<n2>={<n3>=<v3>},<n4>={<v4>,<v5>}

Lets you provide arguments to NSE scripts. Arguments are a comma-separated list of name=value pairs. Names and values may be strings not containing whitespace or the characters '{', '}', '=', or ','. To include one of these characters in a string, enclose the string in single or double quotes. Within a quoted string, 'W' escapes a quote. A backslash is only used to escape quotation marks in this special case; in all other cases a backslash is interpreted literally. Values may also be tables enclosed in {}, just as in Lua. A table may contain simple string values or more name-value pairs, including nested tables. Many scripts qualify their arguments with the script name, as in xmpp-info.server_name. You may use that full qualified version to affect just the specified script, or you may pass the unqualified version (server_name in this case) to affect all scripts using that argument name. A script will first check for its fully qualified argument name (the name specified in its documentation) before it accepts an unqualified argument name. A complex example of script arguments is --script-args 'user=foo.pass=",{}=bar",whois={whodb=nofollow+ripe},xmpp-info.server_name=localhost'. The online NSE Documentation Portal at https://nmap.org/nsedoc/ lists the arguments that each script accepts.

Lets you load arguments to NSE scripts from a file. Any arguments on the command line supersede ones in the file. The file can be an absolute path, or a path relative to Nmap's usual search path (NMAPDIR, etc.) Arguments can be comma-separated or newline-separated, but otherwise follow the same rules as for --script-args, without requiring special quoting and escaping, since they are not parsed by the shell.

--script-help <filename>|<category>|<directory>|<expression>|all[,...]

Shows help about scripts. For each script matching the given specification, Nmap prints the script name, its categories, and its description. The specifications are the same as those accepted by --script; so for example if you want help about the ftp-anon script, you would run **nmap --script-help ftp-anon**. In addition to getting help for individual scripts, you can use this as a preview of what scripts will be run for a specification, for example with **nmap --script-help default**.

--script-trace

This option does what --packet-trace does, just one ISO layer higher. If this option is specified all incoming and outgoing communication performed by a script is printed. The displayed information includes the communication protocol, the source, the target and the transmitted data. If more than 5% of all transmitted data is not printable, then the trace output is in a hex dump format. Specifying --packet-trace enables script tracing too.

--script-updatedb

This option updates the script database found in <code>scripts/script.db</code> which is used by Nmap to determine the available default scripts and categories. It is only necessary to update the database if you have added or removed NSE scripts from the default <code>scripts</code> directory or if you have changed the categories of any script. This option is generally used by itself: <code>nmap --script-updatedb</code>.











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