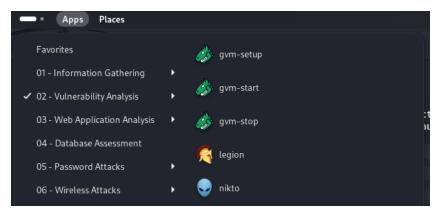
#### Perform Web Servers and Applications Vulnerability Scanning using CGI Scanner Nikto

## Here we are using Kali Linux

## Open Kali Linux > Apps>Vulnerability analysis > nikto



```
-sofaut*
-Poures Pause between tests (seconds)
-Port*
-Port to use (default 80)
-RASAcert*
-Port to use (default 80)
-RASAcert*
-Toot*
-Prepend root value to all requests, format is /directory
-Save Save positive responses to this directory ('.' for auto-name)
-Save Save positive responses to this directory ('.' for auto-name)
-Save Save positive responses to this directory ('.' for auto-name)
-Tuninge
-Save Save positive responses to this directory ('.' for auto-name)
-Save Save positive responses to this directory ('.' for auto-name)
-Interesting File / Seen in logs
-Int
```

Type nikto -h

```
Option host requires an argument
   Options:
                                Whether to ask about submitting updates
        -ask+
                               yes Ask about submitting updates

yes Ask about each (default)

no Don't ask, don't send

auto Don't ask, just send

Check if IPv6 is working (connects to ipv6.google.com or value set in nikto.conf)
        -check6
                                Scan these CGI dirs: "none", "all", or values like "/cgi/ /cgi-a/
        -config+
                                Use this config file
                                Turn on/off display outputs:
1 Show redirects
        -Display+
                                            Show cookies received
                                            Show all 200/OK responses
                                            Show URLs which require authentication
                                    D
                                            Debug output
                                            Display all HTTP errors
                                            Print progress to STDOUT
                                            Scrub output of IPs and hostnames
                                            Verbose output
                               Check database and other key files for syntax errors
        -dbcheck
        -evasion+
                               Encoding technique:
                                            Random URI encoding (non-UTF8)
                                            Directory self-reference (/./)
Premature URL ending
                                            Prepend long random string
                                            Fake parameter
                                            TAB as request spacer
                                            Change the case of the URL
                                            Use Windows directory separator (\)
Use a carriage return (0x0d) as a request spacer
         B Use binary value 0x0b as a request spacer -followredirects Follow 3xx redirects to new location
                                 Save file (-o) format:
                                     csv Comma-separated-value
                                      json JSON Format
                                     htm
                                           HTML Format
```

The result appears, displaying various available options in Nikto. We will use the Tuning option to do a deeper and more comprehensive scan on the target web server

In the terminal window, type nikto-h (Target Website) -Tuning x (here, the target web site is <a href="https://www.certifiedhacker.com">https://www.certifiedhacker.com</a>) and press Enter. Nikto starts scanning with all the tuning options enabled.

nikto -h https://www.certifiedhacker.com -Tuning x

```
(kali@ kali)[~]

$ nikto -h https://www.certifiedhacker.com -Tuning x
- Nikto 2.5.0

+ Target IP: 162.241.216.11
+ Target Hostname: www.certifiedhacker.com
+ Target Hostname: www.certifiedhacker.com
- Ciphers: TLS_AES_256_GCM_SHAS84
- Ciphers: TLS_AES_256_GCM_SHAS84
- Issuer: /c=US/O=Let's Encrypt/CH=F10
+ Start Time: 2025-04-12 12:57:47 (GMT-4)

+ Server: nginx/1.25.5
+ /: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
+ /: Uncommon header 'x-proxy-cache' found, with contents: HTL
- /: Uncommon header 'x-proxy-cache' found, with contents: true.
- /: Uncommon header 'host-header' found, with contents: true.
- /: Uncommon header 'host-header' found, with contents: true.
- /: The site uses TLS and the Strict-Transport-Security HTTP header is not defined. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Strict-Transport-Security
- /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type. See: https://www.netsparker.com
- /*eb-vulnerability-scanner/vulnerabilities/missing-content-type-header/
- : Server banner changed from 'nginx/1.25.5' to 'Apache'.
```

The result appears, displaying various information such as the name of the server, IP address, target port, retrieved files, and vulnerabilities details of the target website.

Here, we will check for cgi directories with the -Cgidirs option. In this option, search for specific directories or use all options to search for all the available directories.

In the terminal window, type nikto -h (TargetWebsite) -Cgidirs all, (here, the target website is https://www.certifiedhacker.com) and hit Enter

The target web site does not have any CGI directory; therefore, the same result as the previous scan was obtained.

#### nikto -h https://www.certifiedhacker.com -Cgidirs all

```
(Nali@ Nali)-[-]
$ nikto -h https://www.certifiedhacker.com -Cgidirs all
- Nikto v2.5.0

162.241.216.11
- Target IP: 162.241.216.11
- Target Hostname: www.certifiedhacker.com
- Target Port: 443

+ SSL Info: Subject: /CN=webdisk.certifiedhacker.com
- Ciphers: TLS_AES_256_6CM_SHA384
- Issuer: /C=US/O=Let's Encrypt/CN=E10

+ Start Time: 2025-04-12 13:41:01 (GMT-4)

+ Server: nginx/1.25.5
+ /: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
- /: Uncommon header 'x-proxy-cache' found, with contents: HIT.
- /: Uncommon header 'k-server-cache' found, with contents: true.
- /: Uncommon header 'x-server-cache' found, with contents: true.
- /: The site uses TLS and the Strict-Transport-Security HTTP header is not defined. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Strict-Transport-Security
- /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type. See: https://www.netsparker.com/web-vulnerabilities-finesing-content-type-header/
- : Server banner changed from 'nginx/1.25.5' to 'Apache'.
```

Now, we will save the scan results in the form of a text file on Desktop. To do so, type cd and press Enter to jump to the root directory.

# nikto -h https://www.certifiedhacker.com -Cgidirs all -o /home/kali/Desktop/nikto\_scan\_results.txt - Format txt