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dev

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Code

dependabot[bot] Merge pull request #1264 f... 47c66bb · 2 days ago 1,598 Commits

.github	fix releaser build (#1262)	3 days ago
integration_tests	Making pcap handlers shared globally (...)	9 months ago
static	include images	5 years ago
v2	chore(deps): bump github.com/project...	3 days ago
.gitignore	Workflow updates (#607)	last year
Dockerfile	chore(deps): bump golang from 1.23.1...	last month
LICENSE.md	Update LICENSE.md	3 years ago
README.md	Merge branch 'dev'	8 months ago
THANKS.md	Update THANKS.md	4 years ago

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Features • Installation • Usage • Running naabu • Config • NMAP integration • CDN/WAF Exclusion • Discord

Naabu is a port scanning tool written in Go that allows you to enumerate valid ports for hosts in a fast and reliable manner. It is a really simple tool that does fast SYN/CONNECT/UDP scans on the host/list of hosts and lists all ports that return a reply.

Features

About

A fast port scanner written in go with a focus on reliability and simplicity. Designed to be used in combination with other tools for attack surface discovery in bug bounties and pentests

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nmap scan-ports hacktoberfest portscanner port-enumeration cdn-exclusion

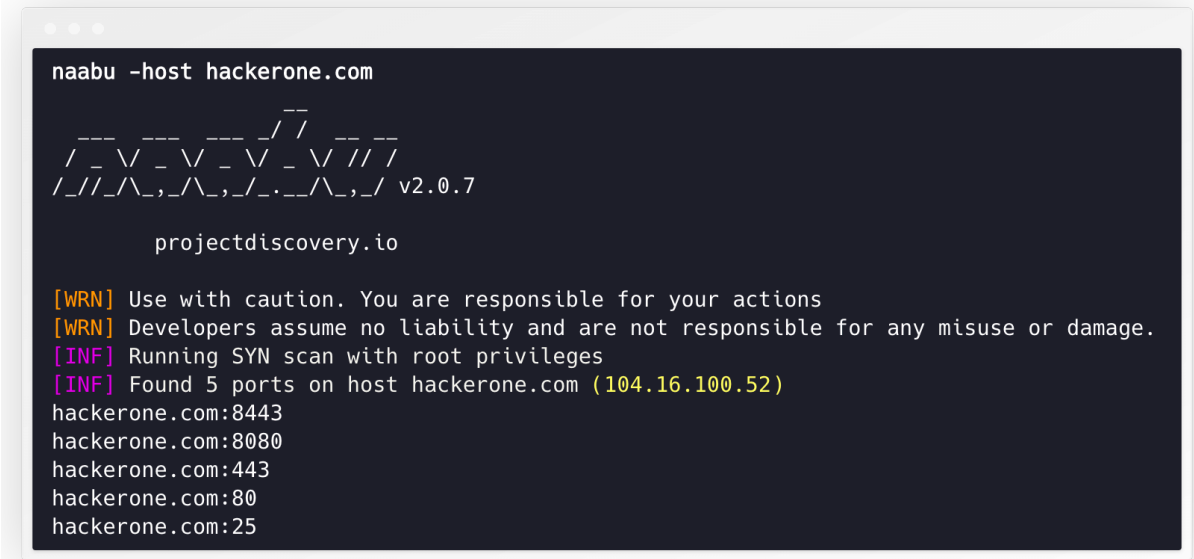
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Releases 32 v2.3.2 Latest 3 days ago + 31 releases

Packages No packages published

Contributors 49 + 35 contributors

Languages Go 99.2% Other 0.8%



- Fast And Simple **SYN/CONNECT/UDP** probe based scanning
- Optimized for ease of use and **lightweight** on resources
- DNS Port scan
- **Automatic IP Deduplication** for DNS port scan
- IPv4/IPv6 Port scan (**experimental**)
- **Passive** Port enumeration using Shodan [Internetdb](#)
- **Host Discovery** scan (**experimental**)
- **NMAP** integration for service discovery
- Multiple input support - **STDIN/HOST/IP/CIDR/ASN**
- Multiple output format support - **JSON/TXT/STDOUT**

Usage

```
naabu -h
```

This will display help for the tool. Here are all the switches it supports.

Usage:

```
./naabu [flags]
```

INPUT:

-host string[]	hosts to scan ports for (comma-separated)
-list, -l string	list of hosts to scan ports (file)
-exclude-hosts, -eh string	hosts to exclude from the scan (comma-separated)
-exclude-file, -ef string	list of hosts to exclude from scan (file)

PORT:

-port, -p string	ports to scan (80,443, 100-200)
-top-ports, -tp string	top ports to scan (default 100) [full]
-exclude-ports, -ep string	ports to exclude from scan (comma-separated)
-ports-file, -pf string	list of ports to scan (file)
-port-threshold, -pts int	port threshold to skip port scan for
-exclude-cdn, -ec	skip full port scans for CDN/WAF (only)
-display-cdn, -cdn	display cdn in use

RATE-LIMIT:

-c int	general internal worker threads (default 25)
-rate int	packets to send per second (default 1000)

UPDATE:

-up, -update	update naabu to latest version
-duc, -disable-update-check	disable automatic naabu update check

OUTPUT:

-o, -output string	file to write output to (optional)
-j, -json	write output in JSON lines format
-csv	write output in csv format

CONFIGURATION:

-config string	path to the naabu configuration file
-scan-all-ips, -sa	scan all the IP's associated with the hostname
-ip-version, -iv string[]	ip version to scan of hostname (4/6)
-scan-type, -s string	type of port scan (SYN/CONNECT)
-source-ip string	source ip and port (x.x.x.x:yyy)
-interface-list, -il string[]	list available interfaces and pull from them
-interface, -i string	network Interface to use for port scanning
-nmap	invoke nmap scan on targets (nmap flag)
-nmap-cli string	nmap command to run on found results
-r string	list of custom resolver dns resolvers
-proxy string	socks5 proxy (ip[:port] / fqdn[:port])
-proxy-auth string	socks5 proxy authentication (username:password)
-resume	resume scan using resume.cfg
-stream	stream mode (disables resume, nmap)
-passive	display passive open ports using nmap
-irt, -input-read-timeout value	timeout on input read (default 30s)
-no-stdin	Disable Stdin processing

HOST-DISCOVERY:

-sn, -host-discovery	Perform Only Host Discovery
-Pn, -skip-host-discovery	Skip Host discovery
-ps, -probe-tcp-syn string[]	TCP SYN Ping (host discovery needs to be enabled)
-pa, -probe-tcp-ack string[]	TCP ACK Ping (host discovery needs to be enabled)
-pe, -probe-icmp-echo	ICMP echo request Ping (host discovery needs to be enabled)
-pp, -probe-icmp-timestamp	ICMP timestamp request Ping (host discovery needs to be enabled)
-pm, -probe-icmp-address-mask	ICMP address mask request Ping (host discovery needs to be enabled)
-arp, -arp-ping	ARP ping (host discovery needs to be enabled)
-nd, -nd-ping	IPv6 Neighbor Discovery (host discovery needs to be enabled)
-rev-ptr	Reverse PTR lookup for input ips

OPTIMIZATION:

-retries int	number of retries for the port scan (default 3)
-timeout int	millisecond to wait before timing out (default 10s)
-warm-up-time int	time in seconds between scan phases (default 2s)
-ping	ping probes for verification of host
-verify	validate the ports again with TCP verification

DEBUG:

-health-check, -hc	run diagnostic check up
-debug	display debugging information
-verbose, -v	display verbose output
-no-color, -nc	disable colors in CLI output
-silent	display only results in output
-version	display version of naabu
-stats	display stats of the running scan (deprecated)
-si, -stats-interval int	number of seconds to wait between showing stats
-mp, -metrics-port int	port to expose naabu metrics on (default 9090)

Installation Instructions

Download the ready to run [binary](#) / [docker](#) or install with GO

Prerequisite

Note: before installing naabu, make sure to install `libpcap` library for packet capturing.

To install libcap on **Linux:** `sudo apt install -y libpcap-dev` , on **Mac:** `brew install libpcap`

Installing Naabu

```
go install -v github.com/projectdiscovery/naabu/v2/cmd/naabu@latest
```

Running Naabu


```
[INF] Found 1 ports on host hackerone.com (2606:4700::6810:6434)
hackerone.com:80
```

Host Discovery

Naabu optionally supports multiple options to perform host discovery, as outlined below. Host discovery is completed automatically before beginning a connect/syn scan if the process has enough privileges. `-sn` flag instructs the toll to perform host discovery only. `-Pn` flag skips the host discovery phase. Host discovery is completed using multiple internal methods; one can specify the desired approach to perform host discovery by setting available options.

Available options to perform host discovery:

- **ARP** ping (`-arp`)
- **TCP SYN** ping (`-ps 80`)
- **TCP ACK** ping (`-pa 443`)
- **ICMP echo** ping (`-pe`)
- **ICMP timestamp** ping (`-pp`)
- **ICMP address mask** ping (`-pm`)
- **IPv6 neighbor discovery** (`-nd`)

Configuration file

Naabu supports config file as default located at `$HOME/.config/naabu/config.yaml` , It allows you to define any flag in the config file and set default values to include for all scans.

Nmap integration

We have integrated nmap support for service discovery or any additional scans supported by nmap on the found results by Naabu, make sure you have `nmap` installed to use this feature.

To use, `nmap-cli` flag can be used followed by nmap command, for example:-

```

echo hackerone.com | naabu -nmap-cli 'nmap -sV -oX nmap-output'

```





projectdiscovery.io

```

[WRN] Use with caution. You are responsible for your actions
[WRN] Developers assume no liability and are not responsible for any
[INF] Running TCP/ICMP/SYN scan with root privileges
[INF] Found 4 ports on host hackerone.com (104.16.99.52)

hackerone.com:443
hackerone.com:80
hackerone.com:8443
hackerone.com:8080

[INF] Running nmap command: nmap -sV -p 80,8443,8080,443 104.16.99.52

Starting Nmap 7.01 ( https://nmap.org ) at 2020-09-23 05:02 UTC
Nmap scan report for 104.16.99.52
Host is up (0.0021s latency).
PORT      STATE SERVICE      VERSION
80/tcp    open  http         cloudflare
443/tcp   open  ssl/https    cloudflare

```

8080/tcp open http-proxy cloudflare

CDN/WAF Exclusion

Naabu also supports excluding CDN/WAF IPs being port scanned. If used, only 80 and 443 ports get scanned for those IPs. This feature can be enabled by using exclude-cdn flag.

Currently cloudflare , akamai , incapsula and sucuri IPs are supported for exclusions.

Scan Status

Naabu exposes json scan info on a local port bound to localhost at http://localhost:63636/metrics (the port can be changed via the -metrics-port flag)

Using naabu as library

The following sample program scan the port 80 of scanme.sh . The results are returned via the OnResult callback:

```
package main

import (
    "log"

    "github.com/projectdiscovery/goflags"
    "github.com/projectdiscovery/naabu/v2/pkg/result"
    "github.com/projectdiscovery/naabu/v2/pkg/runner"
)

func main() {
    options := runner.Options{
        Host:      goflags.StringSlice{"scanme.sh"},
        ScanType:  "s",
        OnResult: func(hr *result.HostResult) {
            log.Println(hr.Host, hr.Ports)
        },
        Ports: "80",
    }

    naabuRunner, err := runner.NewRunner(&options)
    if err != nil {
        log.Fatal(err)
    }
    defer naabuRunner.Close()

    naabuRunner.RunEnumeration()
}
```

Notes