# A Research Report on Nokia Website (Information Gathering)

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## **Report on Nokia Website Information Gathering**

## **1.NOKIA WEBSITE INFORMATION GATHERING**

#### **PING CHECKING ON NOKIA WEBSITE:**



#### **OUTPUT:**

Command: ping www.nokia.com

ping www.nokia.com.

PING e8344.dsca.akamaiedge.net (23.58.35.29) 56(84) bytes of data.

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=1 ttl=59 time=19.7 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=2 ttl=59 time=19.5 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=3 ttl=59 time=19.3 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=4 ttl=59 time=19.1 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=5 ttl=59 time=20.6 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=6 ttl=59 time=20.1 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=7 ttl=59 time=19.2 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=8 ttl=59 time=20.8 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=9 ttl=59 time=19.6 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=10 ttl=59 time=17.2 ms

64 bytes from a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29): icmp\_seq=11 ttl=59 time=20.2 ms ^C

--- e8344.dsca.akamaiedge.net ping statistics ---

11 packets transmitted, 11 received, 0% packet loss, time 10021ms. rtt min/avg/max/mdev = 17.179/19.564/20.822/0.929 ms

#### **NSLOOKUP:**



#### **OUTOUT:**

Command: nslookup www.nokia.com

nslookup www.nokia.com

Server: 192.168.1.1 Address: 192.168.1.1#53 **Non-authoritative answer:** 

www.nokia.com canonical name = www.nokia.com.edgekey.net. www.nokia.com.edgekey.net

canonical name = e8344.dsca.akamaiedge.net.

Name: e8344.dsca.akamaiedge.net

Address: 23.58.35.29

Name: e8344.dsca.akamaiedge.net Address: 2600:140f: b:1a0::2098 Name: e8344.dsca.akamaiedge.net Address: 2600:140f: b:198::209

#### **TRACEROUTE:**



#### **OUTPUT:**

**Command:** traceroute www.nokia.com

traceroute www.nokia.com.

traceroute to www.nokia.com (23.58.35.29), 30 hops max, 60-byte packets.

1 192.168.1.1 (192.168.1.1) 6.349 ms 6.091 ms 5.989 ms

2 10.20.100.1 (10.20.100.1) 16.389 ms 16.299 ms 16.204 ms

3 49.135.164. 202.asianet.co.in (202.164.135.49) 16.133 ms 16.051 ms 16.047 ms 4 dsl-tn-073.189.145.203.airtelbroadband.in (203.145.189.73) 15.831 ms 15.483

ms 15.380 ms

5 182.79.142.236 (182.79.142.236) 19.600 ms 116.119.158.145 (116.119.158.145) 19.545 ms 22.197 ms

6 ae14.tata-maa.netarch.akamai.com (23.57.75.246) 67.285 ms 290.573 ms 290.451 ms

7 \* \* \*

2 \* \* \*

#### 1.FOOTPRINTING AND SUBDOMAIN ENUMERATION:

Collected active subdomains by using various tools like sublst3r, amass which is available in kali linux tools or Online Services like DNSDumpster etc.

#### **Using Sublist3r:**

Command: sublist3r -d www.nokia.com -o subdomains.txt

**OUTPUT:** 

Original subdomains: subdomains active and inactive

Click Here: Subdomains.txt

-d nokia.com: defines the domain

-o subdomains.txt: saves the subdomains to a file.

**Using Amass:** 

Command: amass enum -d nokia.com -o amass subdomains.txt

Click here: amass subdomains.txt.

This will gather subdomains and save them into the amass subdomains.txt file.

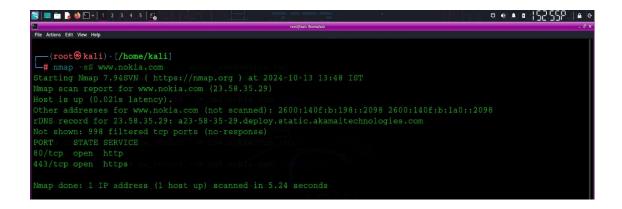
For Collecting active subdomains, I used a Nmap command: **nmap -sn -iL subdomains.txt -oG active subdomain.gnmap.** 

It will resolve the active subdomains and its IP addresses.

It will host up which is in active subdomains in subdomains.txt file.

#### PORT SCANNING AND VERSION DETECTION:

**OPTION 1: Basic SYN Scan** 



#### **OUTPUT:**

Command: nmap -sS www.nokia.com

nmap -sS www.nokia.com

Starting Nmap 7.94SVN (https://nmap.org) at 2024-10-13 13:48 IST

Nmap scan report for www.nokia.com (23.58.35.29)

The host is up (0.021s latency).

Other addresses for www.nokia.com (not scanned): 2600:140f: b:198::2098

2600:140f:b:1a0::2098

rDNS record for 23.58.35.29: a23-58-35-29.deploy.static.akamaitechnologies.com

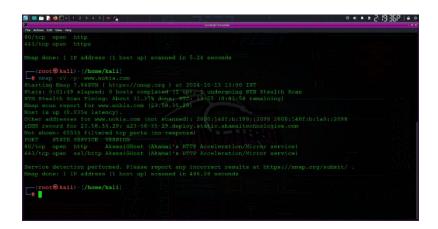
Not shown: 998 filtered tcp ports (no-response)

PORT STATE SERVICE

80/tcp open http 443/tcp open https

Nmap done: 1 IP address (1 host up) scanned in 5.24 seconds.

#### **OPTION 2: Service Version Detection:**



#### **OUTPUT:**

**Command:** nmap -sV -p- www.nokia.com

nmap -sV -p- www.nokia.com

Starting Nmap 7.94SVN (https://nmap.org) at 2024-10-13 13:50 IST

Stats: 0:01:49 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan SYN Stealth Scan Timing: About 31.37% done; ETC: 13:55 (0:03:58 remaining)

Nmap scan report for www.nokia.com (23.58.35.29)

Host is up (0.035s latency).

Other addresses for www.nokia.com (not scanned): 2600:140f: b:198::2098 2600:140f: b:1a0::2098.

rDNS record for 23.58.35.29: a23-58-35-29.deploy.static.akamaitechnologies.com Not shown: 65533 filtered tcp ports (no-response)

PORT STATE SERVICE VERSION

80/tcp open http AkamaiGHost (Akamai's HTTP Acceleration/Mirror service) 443/tcp open ssl/http AkamaiGHost (Akamai's HTTP Acceleration/Mirror service)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 486.08 seconds.

#### **OPTION 3: Aggressive Scan for Detailed Information:**

#### **OUTPUT:**

Command: nmap -A -T4 www.nokia.com

nmap -A -T4 www.nokia.com

Starting Nmap 7.94SVN (https://nmap.org) at 2024-10-13 14:24 IST

Stats: 0:00:18 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan

Service scan Timing: About 50.00% done; ETC: 14:24 (0:00:12 remaining)

Nmap scan report for www.nokia.com (23.58.35.29)

The host is up (0.028s latency).

Other addresses for www.nokia.com (not scanned): 2600:140f: b:1a0::2098

2600:140f: b:198::2098.

rDNS record for 23.58.35.29: a23-58-35-29.deploy.static.akamaitechnologies.com Not shown: 998 filtered tcp ports (no-response)

PORT STATE SERVICE VERSION

80/tcp open http AkamaiGHost (Akamai's HTTP Acceleration/Mirror service)

|\_http-title: Access Denied

443/tcp open ssl/http AkamaiGHost (Akamai's HTTP Acceleration/Mirror service)

|\_http-server-header: nginx

| ssl-cert: Subject: commonName=online.portal.nsn.com/organizationName=Nokia Solutions and Networks Oy/countryName=FI

| Subject Alternative Name: DNS: online.portal.nsn.com, DNS: cachessl1.net.nokia.com, DNS: cache-ssl1.nsn.com, DNS: cache-ssl2.net.nokia.com, DNS: cache-ssl2.net.nokia.com, DNS: company.nokia.com, DNS:n1.nokia.com, DNS:online.networks.nokia.com, DNS:p2p.supplier.nokia.com, DNS:qa-online.networks.nokia.com, DNS:qa-online.nsn.com, DNS:qa-online.portal.nsn.com, DNS:reports.networks.nokia.com, DNS:stg-n1.nokia.com, DNS:www.nokia.com, DNS:www2.nokia.com

| Not valid before: 2024-07-14T00:00:00 | Not valid after 2025-07-16T23:59:59

http-title: Access Denied

ssl-date: TLS randomness does not represent time.

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port

OS fingerprint not ideal because: Missing a closed TCP port so results incomplete.

No OS matches for the host. Network Distance: 7 hops.

```
TRACEROUTE (using port 80/tcp)

HOP RTT ADDRESS

1 26.01 ms 192.168.1.1

2 28.02 ms 10.20.100.1

3 ... 6

7 36.06 ms a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29)

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 33.45 seconds
```

TRACEROUTE (using port 80/tcp)

HOP RTT ADDRESS

- 1 26.01 ms 192.168.1.1
- 2 28.02 ms 10.20.100.1
- 3 ... 6
- 7 36.06 ms a23-58-35-29.deploy.static.akamaitechnologies.com (23.58.35.29)

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 33.45 seconds.

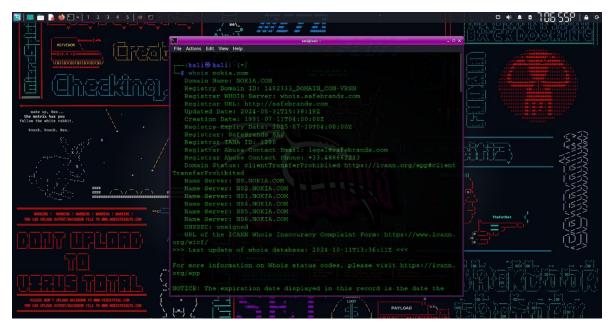
### **INFORMATION GATHERING USING ONLINE TOOLS**

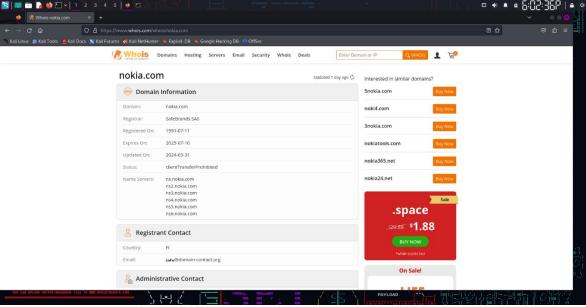
#### GATHERING INFORMATION BY USING ONLINE TOOLS.

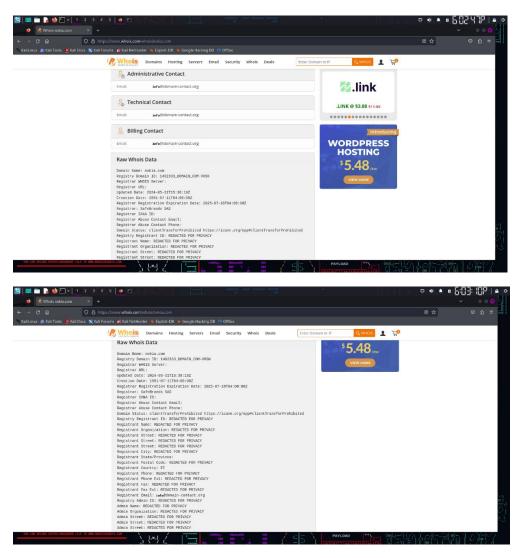
#### THEY ARE:

#### Websites:

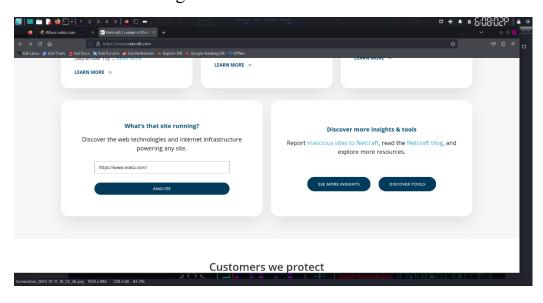
1. Who is -This will give you detailed domain ownership information.

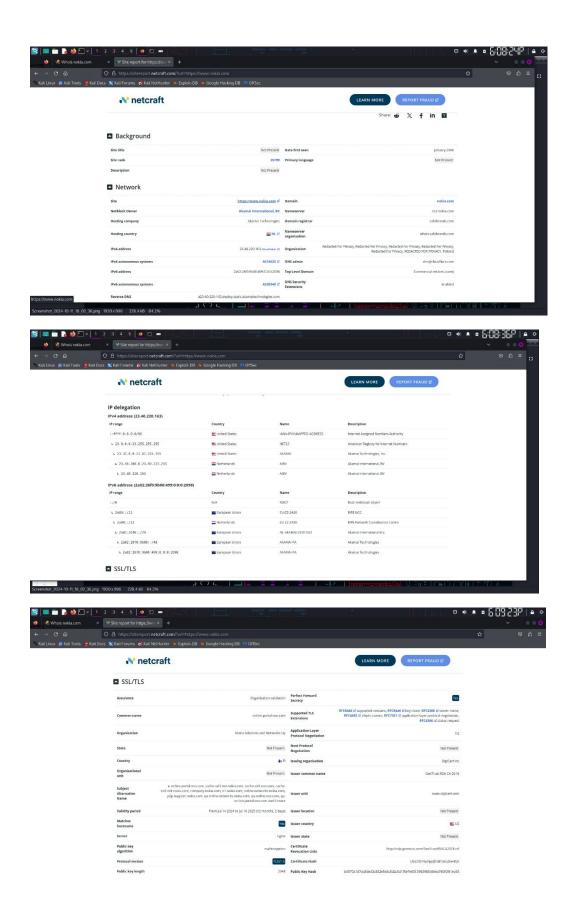


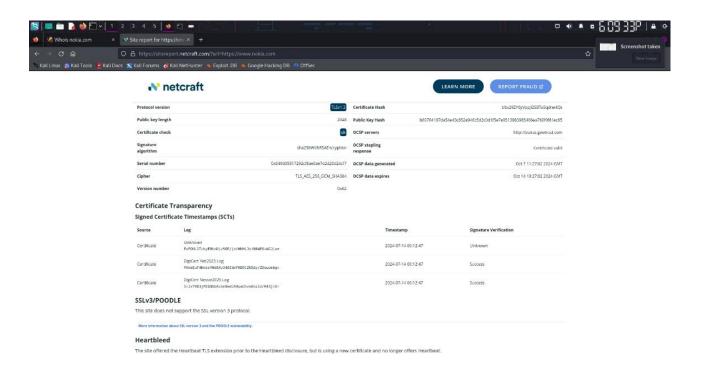


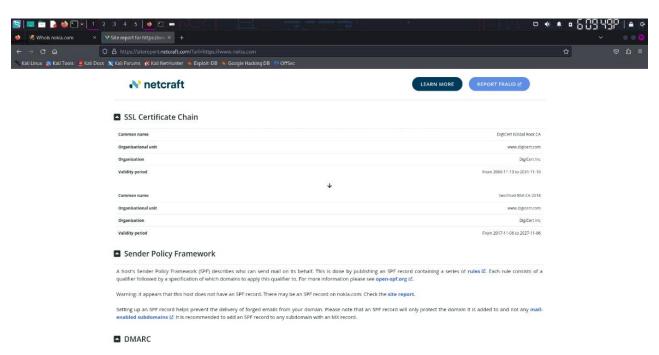


2.NetCraft -This will gather additional server and infrastructure information.



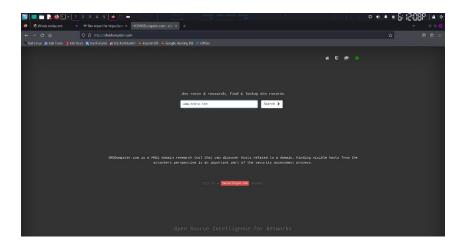






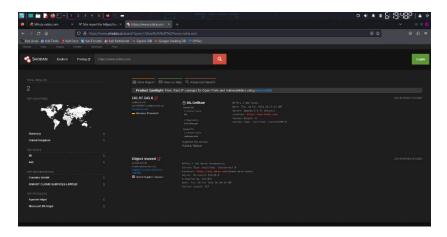
3.DNSDumpster - This will gather DNS Information, IP addresses, subdomains, and a map of the website's infrastructure.

DNS Servers
ns3.nokia.com. =162.159.11.117 =CLOUDFLARENET unknown
ns5.nokia.com. =198.41.223.186 =CLOUDFLARENET unknown
ns4.nokia.com. =162.159.9.98 =CLOUDFLARENET unknown
ns2.nokia.com. =173.245.58.11 =CLOUDFLARENET unknown
ns.nokia.com. =162.159.10.115 =CLOUDFLARENET unknown
ns6.nokia.com. =198.41.222.129 =CLOUDFLARENET unknown
MX Records ** This is where email for the domain goes
10 nokia-com.mail.protection.outlook.com. =52.101.73.12
MICROSOFT-CORP-MSN-AS-BLOCK-The Netherlands



## **CLICK HERE: Nokia DNSDumpster.xlsx**

4.Shodan – This will gather all ip addresses of websites to check open ports, services & vulnerabilities.



**CLICK HERE: SHODAN REPORT PDF FILE**