

# Subdomain Enumeration

## 1. What Are Subdomains?

A subdomain is a smaller part of a main website domain. It helps separate different sections of a website so users can find things easily.

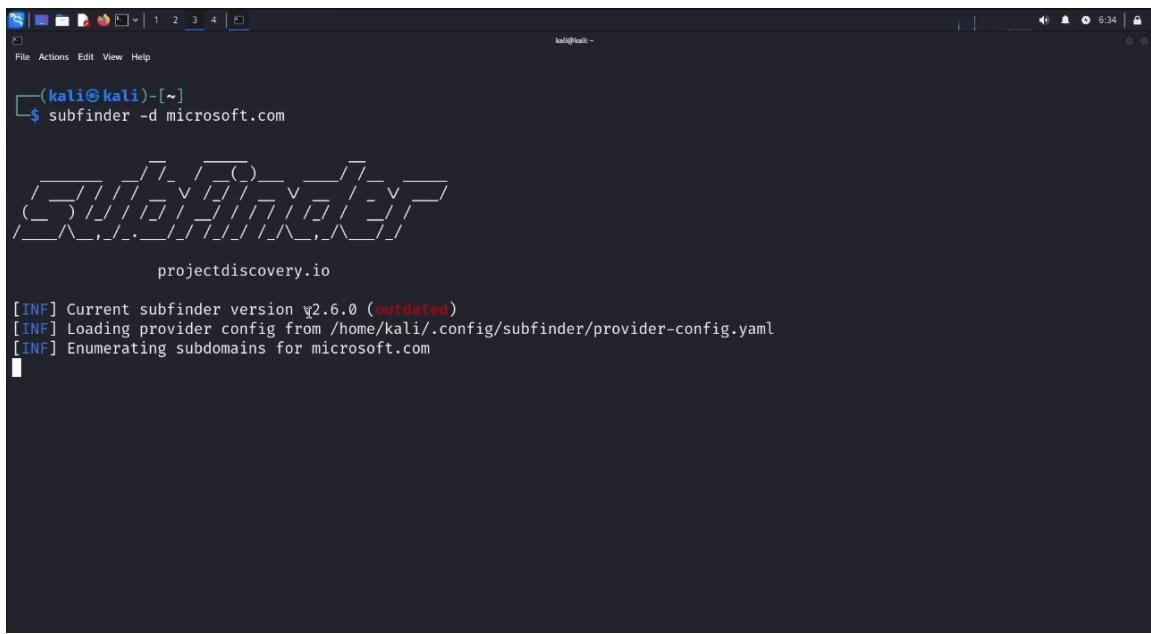
For example, in the web address blog.example.com, the word *blog* is the subdomain.

Subdomains always appear before the main domain name.

They are useful for organizing content, creating special portals, or hosting different services under one main domain.

## 2. Using Subfinder in Kali Linux

```
subfinder -d microsoft.com
```



The screenshot shows a terminal window on a Kali Linux desktop environment. The terminal has a dark background and light-colored text. At the top, there's a window title bar with icons and a menu bar with 'File', 'Actions', 'Edit', 'View', and 'Help'. The main terminal area shows the command:

```
(kali㉿kali)-[~]
$ subfinder -d microsoft.com
```

Below the command, there's a decorative graphic consisting of various symbols like slashes and dots forming a grid-like pattern. The text 'projectdiscovery.io' is centered below the graphic. The terminal then displays log output:

```
[INF] Current subfinder version v2.6.0 (outdated)
[INF] Loading provider config from /home/kali/.config/subfinder/provider-config.yaml
[INF] Enumerating subdomains for microsoft.com
```

is used to search for all subdomains of **microsoft.com**.

The tool loads its configuration files and starts scanning.

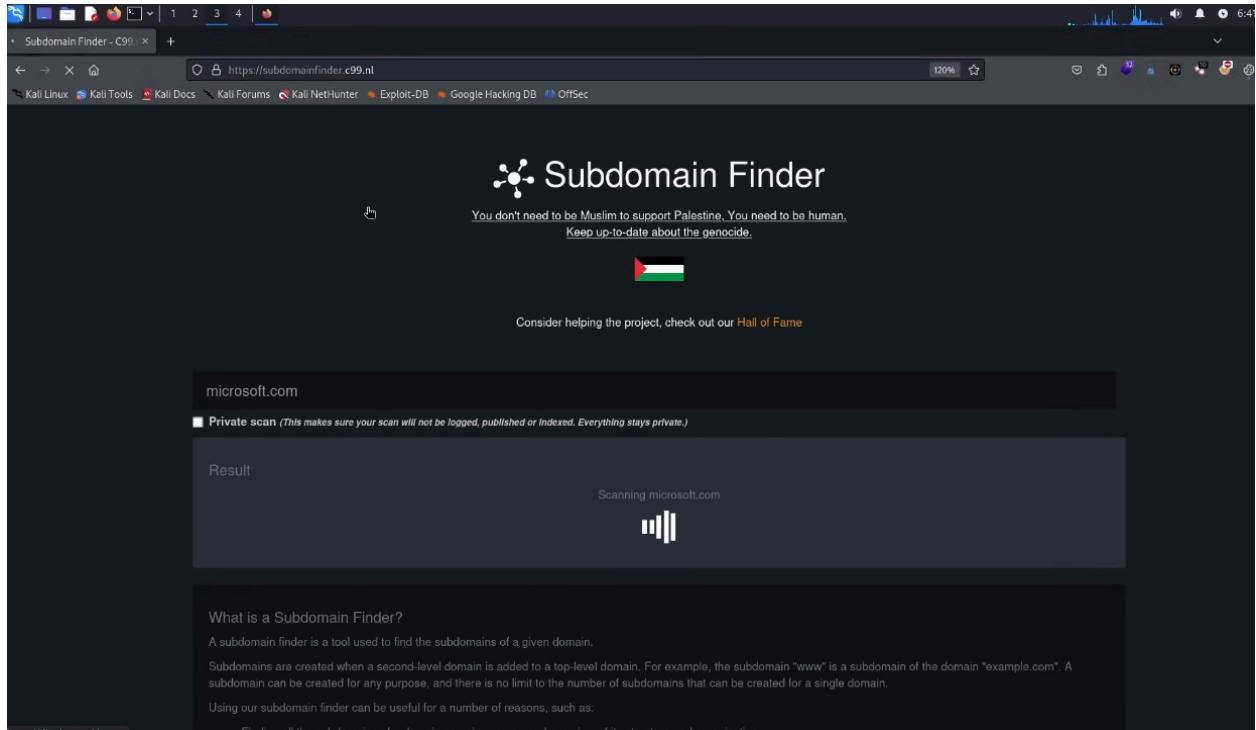
Subfinder is popular in cybersecurity because it helps researchers discover online assets that belong to a company.

This kind of output helps security analysts identify which services, servers, and environments a company has online.

It can be useful for security testing, inventory tracking, or understanding an organization's digital footprint.

## 4. Subdomain Finder Website

This is a tool that finds subdomains online.

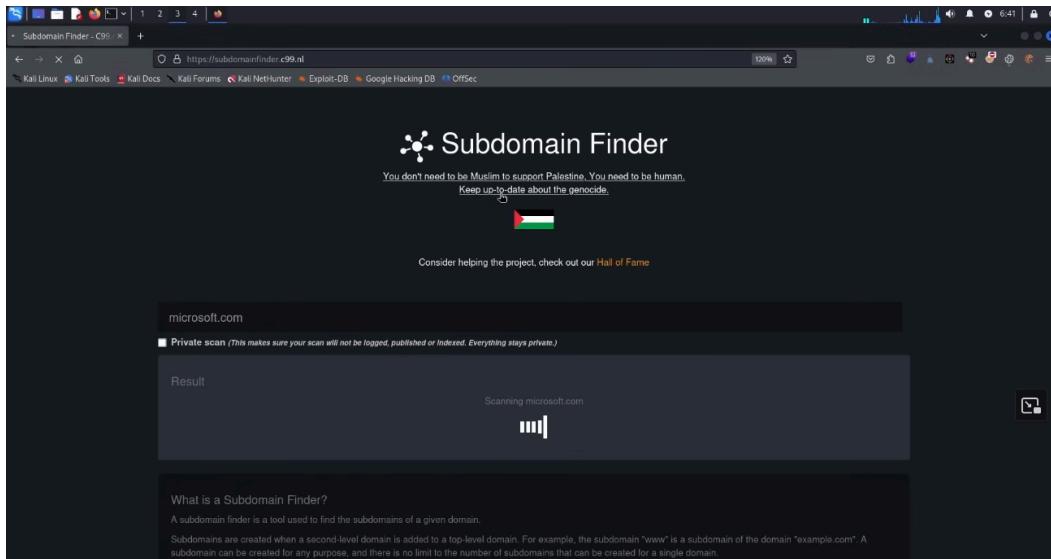


The user entered **microsoft.com** and started a scan.

It shows the **scan date**, and lists the **IPs** used.

Users can copy or download the results in CSV or JSON.

These details help organizations understand and manage their online systems.



The screenshot shows two instances of a web browser displaying the results of a subdomain scan for the domain `paytm.com`. The top instance shows a detailed list of subdomains and their corresponding IP addresses, while the bottom instance provides a summary of the number of subdomains per IP address.

**Top Instance (Detailed View):**

Subdomain	IP	Cloudflare
accounts-analycsapp.paytm.com	18.61.176.104	Cloudflare
accounts.paytm.com	184.51.105.189	Cloudflare
api-payouts.paytm.com	23.192.237.204	Cloudflare
api.paytm.com	184.51.105.189	Cloudflare
apiproxy.paytm.com	184.51.105.189	Cloudflare

**Bottom Instance (Summary View):**

IP	Count
184.51.105.189	22
2.18.128.231	7
18.61.176.104	2
2.18.133.120	2
199.60.103.2	2
184.51.104.149	2
18.60.121.129	1

This image shows a list of IP addresses used by `paytm.com`'s subdomains.

It also shows how many subdomains point to each IP.

For example, one IP is used by **22 subdomains**.

This information helps identify important servers and map a network.

