



## 1. OSINT and Recon Lab

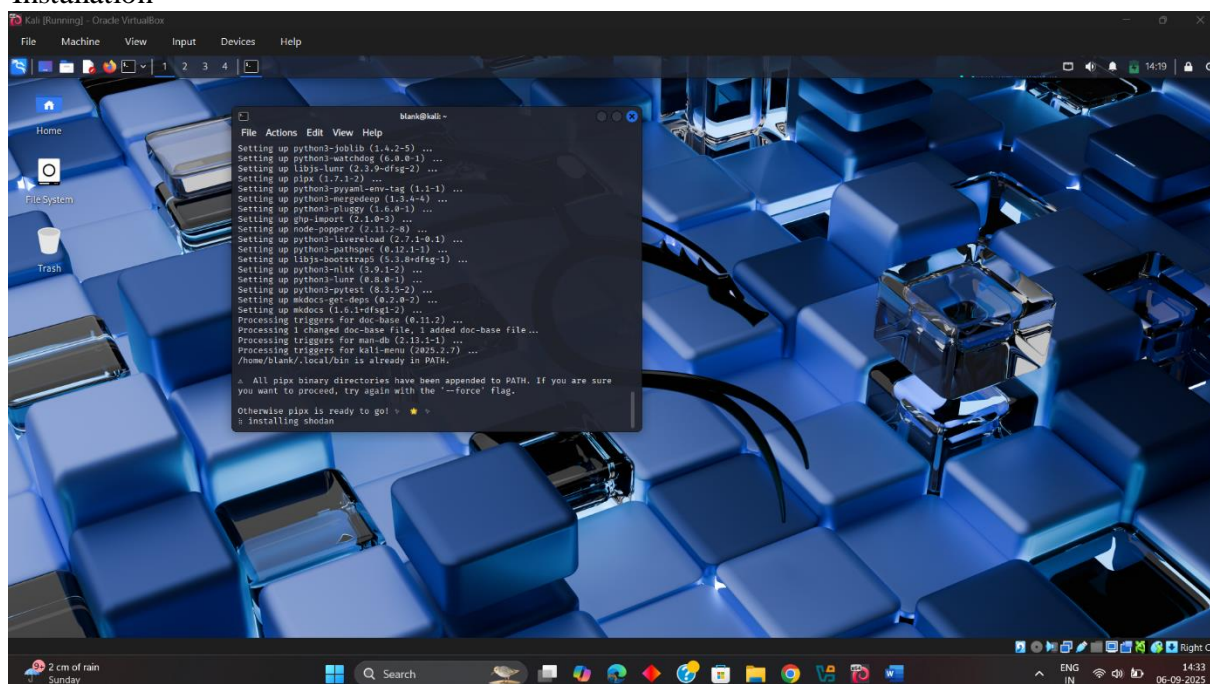
### Activities:

- **Tools:** Maltego, Recon-ng, Shodan.
- **Tasks:** Enumerate subdomains and exposed services.
- **Brief:**

Subdomain Enumeration: Run Recon-ng with `bing_domain_web` on `example.com`. Log:

Subdomain	IP Address	Notes
-----	-----	-----
www.example.com	93.184.216.34	Hosts web server

### Installation





```
Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

// // BLACK HILLS V \\\
www.blackhillsinfosec.com

PRACTISEC
www.practisecc.com

[recon-ng v5.1.2, Tin Tones (@lanmaster53)]

[recon-ng][default] > No modules enabled/installed.
[recon-ng][default] > modules load recon/domains-hosts/bing_domain_web
[recon-ng][default] > modules load recon/domains-hosts/bing_domain_web
[recon-ng][default] > modules install recon/domains-hosts/bing_domain_web
Interfaces with installed modules
Usage: modules <load|reload|search> [...]
[recon-ng][default] > modules load recon/domains-hosts/bing_domain_web
[recon-ng][default] > modules search recon/domains-hosts/bing_domain_web
[recon-ng][default] > Searching installed modules for 'recon/domains-hosts/bing_domain_web' ...
Searching installed modules
Usage: modules search [cregex]
[recon-ng][default] > marketplace search bing
[recon-ng][default] > Searching module index for 'bing' ...

+-----+-----+-----+-----+-----+-----+
| Path | Version | Status | Updated | D | K |
+-----+-----+-----+-----+-----+-----+
| recon/companies-contacts/bing_linkedin_cache | 1.0 | not installed | 2019-06-24 | | * |
| recon/domains-hosts/bing_domain_api | 1.0 | not installed | 2019-06-24 | | * |
| recon/domains-hosts/bing_domain_web | 1.1 | not installed | 2019-07-04 | | |
| recon/domains-hosts/bing_ip | 1.0 | not installed | 2019-06-24 | | * |
| recon/profiles-contacts/bing_linkedin_contacts | 1.2 | not installed | 2021-08-24 | | * |
+-----+-----+-----+-----+-----+-----+

D = Has dependencies. See info for details.
K = Requires keys. See info for details.
[recon-ng][default] > marketplace install recon/domains-hosts/bing_domain_web
[recon-ng][default] > Module installed: recon/domains-hosts/bing_domain_web
[recon-ng][default] > Reloading modules ...
[recon-ng][default] > modules load recon/domains-hosts/bing_domain_web
[recon-ng][default] > [recon-ng][default][bing_domain_web] >

2 cm of rain
Sunday
```

```
Kali [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

[recon-ng][default] > marketplace install recon/domains-hosts/bing_domain_web
[recon-ng][default] > Module installed: recon/domains-hosts/bing_domain_web
[recon-ng][default] > Reloading modules ...
[recon-ng][default] > modules load recon/domains-hosts/bing_domain_web
[recon-ng][default][bing_domain_web] > info

Name: Bing Hostname Enumerator
Author: Tin Tones (@lanmaster53)
Version: 1.1

Description:
Harvests hosts from Bing.com by using the 'site' search operator. Updates the 'hosts' table with the results.

Options:
+-----+-----+-----+-----+
| Name | Current Value | Required | Description |
+-----+-----+-----+-----+
| SOURCE | default | yes | source of input (see 'info' for details) |
+-----+-----+-----+-----+

Source Options:
+-----+-----+-----+-----+
| Name | Current Value | Required | Description |
+-----+-----+-----+-----+
| default | SELECT DISTINCT domain FROM domains WHERE domain IS NOT NULL | | string representing a single input |
| <string> | | | path to a file containing a list of inputs |
| <path> | | | database query returning one column of inputs |
| query <sql> | | | |
+-----+-----+-----+-----+

[recon-ng][default][bing_domain_web] > options set SOURCE example.com
SOURCE => example.com
[recon-ng][default][bing_domain_web] > run

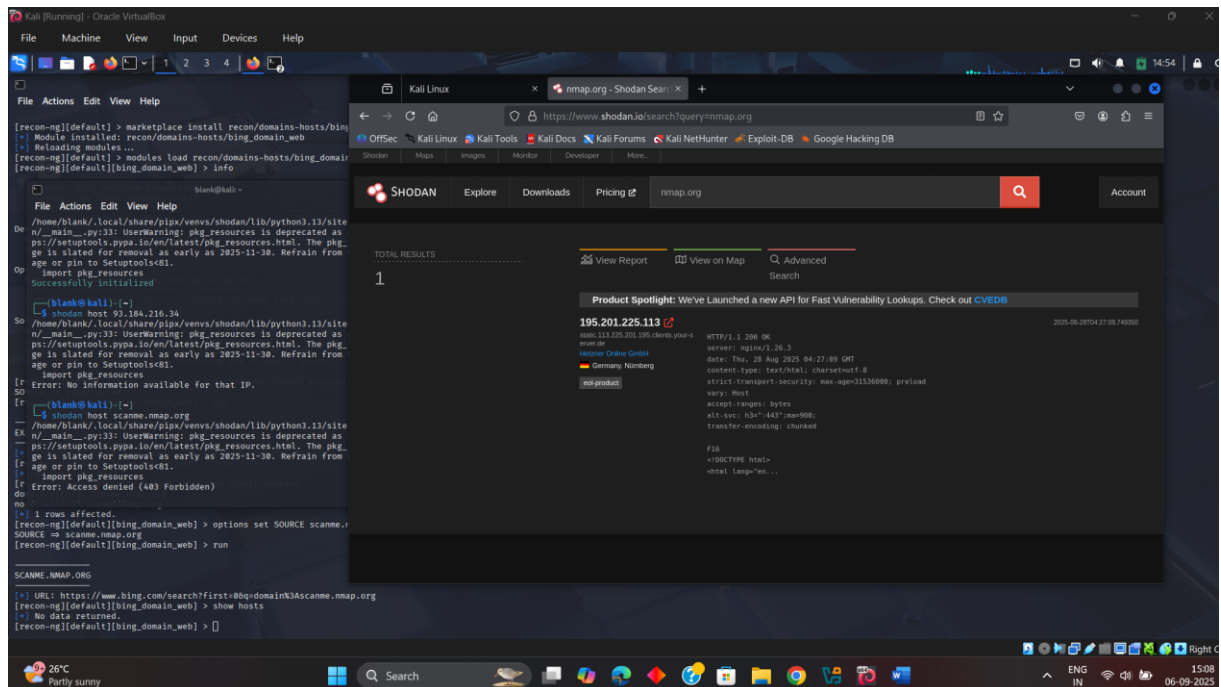
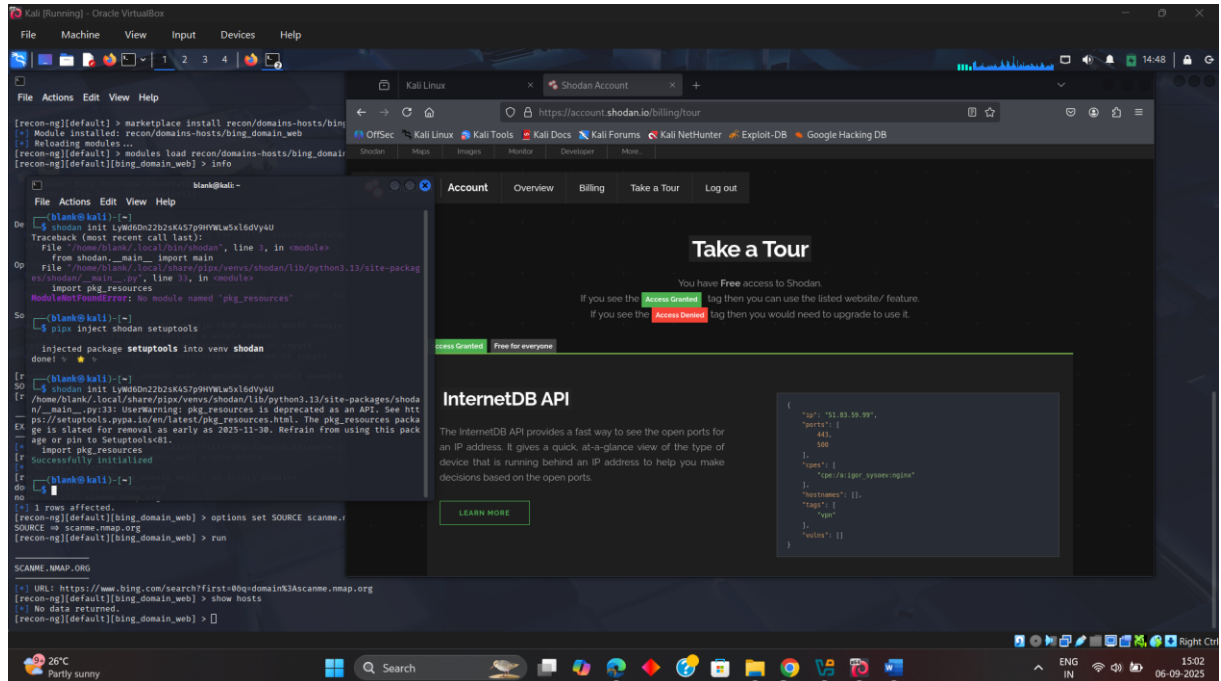
EXAMPLE.COM
[recon-ng][default][bing_domain_web] > show hosts
[recon-ng][default][bing_domain_web] > No data returned.
[recon-ng][default][bing_domain_web] > db insert domains
domain (TEXT): scanme.nmap.org
notes (TEXT): scanme.nmap.org
[recon-ng][default][bing_domain_web] > 1 rows affected.
[recon-ng][default][bing_domain_web] > options set SOURCE scanme.nmap.org
SOURCE => scanme.nmap.org
[recon-ng][default][bing_domain_web] > run

SCANME.NMAP.ORG
[recon-ng][default][bing_domain_web] > show hosts
[recon-ng][default][bing_domain_web] > No data returned.
[recon-ng][default][bing_domain_web] >

Trending videos
A Big Bold Beau...
```



- **Shodan Query: Search apache country:US; summarize 3 exposed hosts in 50 words.**



## Summary of 3 Exposed Hosts

1. Host A:-[Clickscale - Data Engineering & Salesfire Data Optimisation](#)

2025-09-06T09:35:41.858340

35.178.187.36

ec2-35-178-187-36.eu-west-2.compute.amazonaws.com



## SSL Certificate

### Issued By:

| - Common Name: example.com

### Issued To:

| - Common Name: example.com

### Supported SSL Versions:

TLSv1, TLSv1.1, TLSv1.2, TLSv1.3

HTTP/1.1 200 OK

Date: Sat, 06 Sep 2025 09:35:18 GMT

Server: Apache

cf-edge-cache: cache,platform=wordpress

Link: <https://35.178.187.36/wp-json/>; rel="https://api.w.org/",  
<https://35.178.187.36/wp-json/wp/v2/pages/17>; rel="alternate";  
title="JSON"; type="application/json", <https://35.178....

## 2. Host B:- [301 Moved Permanently](#)

2025-09-06T09:35:40.297320

167.99.185.222

HTTP/1.1 301 Moved Permanently

Date: Sat, 06 Sep 2025 09:35:17 GMT

Server: Apache/2.4.41 (Ubuntu)

Location: https://www.barrysjewellers.com/blog/

Content-Length: 335

Content-Type: text/html; charset=iso-8859-1

## 3. Host C:- [47.123.105.33](#)

2025-09-06T09:35:35.588440

HTTP/1.1 302 Found

Server: Apache

X-Frame-Options: SAMEORIGIN

X-Permitted-Cross-Domain-Policies: master-only



**X-Download-Options: noopen**

**Strict-Transport-Security: max-age=31536000;include SubDomains**

**X-Content-Type-Options: nosniff**

**Referrer-Policy: same-origin**

**Access-Control-Allow-Origin: ...**