

**PROFESSIONAL TRAINING REPORT
AT
SATHYABAMA INSTITUTE OF SCIENCE AND
TECHNOLOGY (DEEMED TO BE UNIVERSITY)**

Submitted in partial fulfillment of the requirements for the
award of Bachelor of Engineering Degree in INFORMATION
TECHNOLOGY

By
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REG. NUMBER :- 39120091



**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

SCHOOL OF COMPUTING

**SATHYABAMA INSTITUTE OF SCIENCE AND
TECHNOLOGY**

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CHENNAI – 600119, TAMILNADU**

NOVEMBER 2021



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with Grade "A" by NAAC

(Established under Section 3 of UGC Act, 1956)

JEPPIAAR NAGAR, RAJIV GANDHI SALAI

CHENNAI- 600119

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of
B.RAMANAN (**39120091**) who carried out the project entitled "**WEB
ENUMERATION**" under my supervision November 2021.

Internal Guide

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Head of the Department

Dr.R.SUBHASHINI,M.E.,Ph.D.,

Submitted for Viva voce Examination held on _____

InternalExaminer

ExternalExaminer

DECLARATION

I, **B. RAMANANA** hereby declare that the project report entitled **WEB ENUMERATION** done by me under the guidance of **Dr.G.MATHIVANAN M.E.,Ph.D.**, is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering Degree in **INFORMATION TECHNOLOGY**

DATE:
PLACE:

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

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TRAINING CERTIFICATE



CERTIFICATE OF COMPLETION

CSW-I-09-081121 is given to

B RAMANAN

For completing the Cyber Security training that includes basics of Cyber Security, Pentesting, Networking, and WebApp.

Aaron V Sandeen

AARON SANDEEN
CEO - CSW

N. Vengatesh

VENGATESH NAGARAJAN
MENTOR

ABSTRACT

DNS ENUMERATION is the process of locating all the **DNS server** and their corresponding **record** for an organization. **DNS enumeration** will yield **Name, Registrar, Created Date, Emails, Expiration Date, Address, City, State, Country** of potential target systems. **DNS Zone Transfer** used to replicate **DNS data across a number** of DNS servers or to **back up DNS files**.

Subdomain enumeration is the process of **finding valid subdomains for one or more domain(s)**. **Subdomain enumeration** can reveal a lot of domain/subdomains that are in scope of a security assessment which in turn increases the chances of finding vulnerabilities. Unless the **DNS server** exposes a **full DNS zone** it is really hard to obtain a list of existing subdomains.

The simplest form of the **Directory-enumeration attack** is to make a request for each **Directory name in turn from dictionary file of popular Directory names**. There is **essentially no way for a user** to know which files are found in which directories on a **web-server**, unless the whole server has **Directory listing by default**.

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1. INTRODUCTION

1.1 What is Cyber Security?

Cybersecurity is the protection of computer systems and networks from information disclosure, theft of or damage to their hardware, software, or electronic data, as well as from the disruption or misdirection of the services they provide. It is otherwise known as Computer Security or information Technology security.

IMPORTANCE OF CYBER SECURITY

- User's asset is protected against various cyber security risk and remain intact.
- The importance of ensuring protection from attacks, damage and authorized access on networks, computers and programs is equivalent to daily routine operation of an organization.
- Helping to understand the current trend in it and develop effective solutions.
- Reducing vulnerability in information and ICT systems and networks.

COMMON TOOLS USED FOR CYBER SECURITY

- Passwords
- Antivirus / Anti-malware software
- Software patches
- Fire walls
- Two factor authentication
- Encryption

KEY ELEMENTS OF CYBER SECURITY

- Application security
- Information security
- Network security
- Disaster security
- Operation security

1.2 What is Web Enumeration?

WEB ENUMERATION is a technique used gathering information about **the targeted website or domain or server**. It is used to identify **the vulnerable URL domain information ,subdomain information and vulnerable directories**. It is useful to report **after finding vulnerable directories and subdomain to the respected person to developed it** .

2 . WEB ENUMERATION OF THE PRESENT INVESTIGATION

2.1 DOMAIN INFO

- ▶ **DNS Enumeration** is the process of extracting **Name, Registrar, Created Date, Emails, Expiration Date, Address, City, State, Country**.
- ▶ In the enumeration phase, **the attacker creates active connections with system** and performs directed queries to gain more information about the target.

2.2 SUBDOMAIN ENUMERATION

- ▶ **Subdomain Enumeration** is the process of extracting subdomain is vulnerable .
- ▶ (EXAMPLE., **api.google.com, c.facebook.com**).

2.3 DIRECTORY ENUMERATION

- ▶ **Directory Enumeration** is the process of extracting **Hidden Directories** in website .
- ▶ (EXAMPLE., **google.com/2020/, facebook.com/posts/**).

3. EXPERIMENTAL OR MATERIALS AND METHODS, **REQUIREMENTS USED**

3.1 VIRUTAL BOX

Oracle VM VirtualBox is a free and open-source hosted hypervisor for x86 virtualization, developed by Oracle Corporation. IT is a virtualization software.

Operating system: Windows, macOS (only Intel-based Macs), Linux and Solaris.

USES OF VIRTUAL BOX

Oracle VM VirtualBox is cross-platform virtualization software. It allows users to extend their existing computer to run multiple operating systems including Microsoft Windows, MacOS X, Linux, and Oracle Solaris, at the same time.

ADVANTAGES:

- Lower hardware costs. Many organizations don't fully utilize their hardware resources.
- Quicker Desktop Provisioning and Deployment. Deploying a new physical server often takes numerous time-consuming steps.
- Smaller Footprint.
- Enhanced Data Security.
- Portability.
- Improved IT Efficiency.

3.2 KALI LINUX

Kali Linux is a Debian-derived Linux distribution designed for digital forensics and penetration testing. It is maintained and funded by Offensive Security.

USES OF KALI LINUX

Kali Linux is mainly used for advanced Penetration Testing and Security Auditing. Kali contains several hundred tools which are geared towards various information security tasks

such as Penetration Testing, Security research, Computer Forensics and Reverse Engineering.

ADVANTAGES OF KALI LINUX:

1. More than 600 penetration tools included
2. Adherence of file-system hierarchy standard
3. Open development tree
4. Multiple-language support
5. Completely customizable
6. Free (as in beer) and always will be
7. Wide-ranging wireless device support

3.3 PYTHON3

Python is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation. Its language constructs as well as its object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

3.4 Metasploitable

The Metasploitable virtual machine is **an intentionally vulnerable version of Ubuntu Linux designed for testing security tools and demonstrating common vulnerabilities**. This virtual machine is compatible with VMWare, VirtualBox, and other common virtualization platforms

ADVANTAGES OF METASPLOITABLE

- Open source. One of the top reasons why one should go with Metasploit is because it is open source and actively developed. ...
- Support for testing large networks and easy naming conventions. ...
- Smart payload generation and switching mechanism. ...
- Cleaner exits. ...
- The GUI environment.

SYSTEM REQUIREMENT

- (i) 8 GB RAM
- (ii) 512 SSD

TOOLS USED

- (i) VISTUAL STUDIO CODE(test editor)
- (ii) KALI LINUX(operating system)
- (iii) VIRTUAL BOX(virtualization)
- (iv) PYTHON3
- (V) METASPLOITABLE

RESULT:

THUS the tools I have been implemented has been executed successfully.

CONCLUSION:

The ease which Web Enumeration allows for deploying Web services on a network has brought into DNS focus the need to address security concerns that arise by having web services assessments included in the scope of other security assessment assignments. This calls for a fair degree of comprehension of Web Enumeration the basic constituent in the web services domain. Enumerating and Profiling Web services then becomes an extremely simple task.

This paper has sought to explain the Web Enumeration of Enumerating and Profiling Web services in a simple, straightforward manner. Various other methods of extracting the same information about a Web service's methods, input and output may exist, and users are free to follow Web Enumeration of their choice.

SOURCE CODE:

Domain information:

```
import whois
```

```
b = "\033[1;37m"  
r = "\033[1;31m"  
v = "\033[1;32m"  
a = "\033[1;33m"  
cy = "\033[0;96m"
```

```
def domaininfo():
```

```
    domain = input(r+"Domain >> ")
```

```
    res = whois.whois(domain)
```

```
    print("")  
    print(cy+"[+] Domain Name           :",res.domain_name)  
    print(cy+"[+] Domain Registrar       :",res.registrar)  
    print(cy+"[+] Domain WHOIS Server    :",res.whois_server)  
    print(cy+"[+] Domain Created Date      :",res.creation_date)  
    print(cy+"[+] Domain Expiration Date   :",res.expiration_date)  
    print(cy+"[+] Domain Emails            :",res.emails)  
    print(cy+"[+] Domain Address           :",res.address)  
    print(cy+"[+] Domain City              :",res.city)  
    print(cy+"[+] Domain State             :",res.state)  
    print(cy+"[+] Domain Country          :",res.country)
```

```
if __name__ == "__main__":  
    domaininfo()
```

SUBDOMAIN SCANNER:

```
#!/usr/bin/env python3
```

```
import requests  
from requests.api import request  
from requests.models import Response
```

```
b = "\033[1;37m"  
r = "\033[1;31m"  
v = "\033[1;32m"  
a = "\033[1;33m"  
cy = "\033[0;96m"
```

```
def subdomain():  
    def request(url):  
        try:  
            return requests.get('Https://' + url)  
        except requests.exceptions.ConnectionError:  
            pass
```

```
target_url = input(r+"Target URL >> ")
```

```
with open("subdomain.txt", "r") as wordlist_file:  
    print(cy+"[+] Discovering Critical Subdomains ...")  
    for line in wordlist_file:  
        word = line.strip()  
        test_url = word + "." + target_url  
        response = request(test_url)  
        if response:
```

```

        print(cy+"[+] Discovered Subdomains --> " + test_url)

if __name__=="__main__":
    subdomain()

```

DIRECTORY SCANNER:

```
#!/usr/bin/env python3
```

```

import requests
from requests.api import request
from requests.models import Response

```

```

b = "\033[1;37m"
r = "\033[1;31m"
v = "\033[1;32m"
a = "\033[1;33m"
cy = "\033[0;96m"

```

```

def DirScan():
    def request(url):
        try:
            return requests.get('Https://' + url)
        except requests.exceptions.ConnectionError:
            pass

```

```
target_url = input(r+"Target URL >> ")
```

```

with open("/usr/share/wordlists/dirb/big.txt", "r") as wordlist_file:
    print(cy+"[+] Discovering Critical Directories ...")
    for line in wordlist_file:
        word = line.strip()
        test_url = target_url + "/" + word
        response = request(test_url)
        if response:

```

```
print(cy+"[+] Discovered URL --> " + test_url)
```

WEB ENUMERATION OUTPUT:

```
from DomainInfo import domaininfo
from SubdomainScanner import subdomain
from DirectoryScanner import DirScan
```

```
b = "\033[1;37m"  
r = "\033[1;31m"  
v = "\033[1;32m"  
a = "\033[1;33m"  
cy = "\033[0;96m"
```

```
print(cy+""")
```

[illegible]

```

print(cy+"
Ramanan Ram
print(cy+"
ramananbtssr3032@gmail.com
print(cy+"
https://www.linkedin.com/in/ramanan-b-01b384225/
print(cy+"
https://www.instagram.com/b_e_n_op/

```

Created By :
 ")
 Email :
 ")
 LinkedIn Profile :
 ")
 Instagram Profile :
 ")

```

print(a+""
      < Available Tools >

      I Domain Information
      II Subdomain Scanner
      III Directory Scanner
      "")

```

```

def WebEnum():

    inp=(input(r+"Info >> "))

    if(inp=='I'):
        domaininfo()

    elif(inp=='II'):
        subdomain()

    elif(inp=='III'):
        DirScan()

    elif(inp=='exit'):
        exit()

    elif(inp=='ls'):
        print(v+""Tools available

              I Domain Information
              II Subdomain Scanner
              III Directory Scanner

              "")
    else:

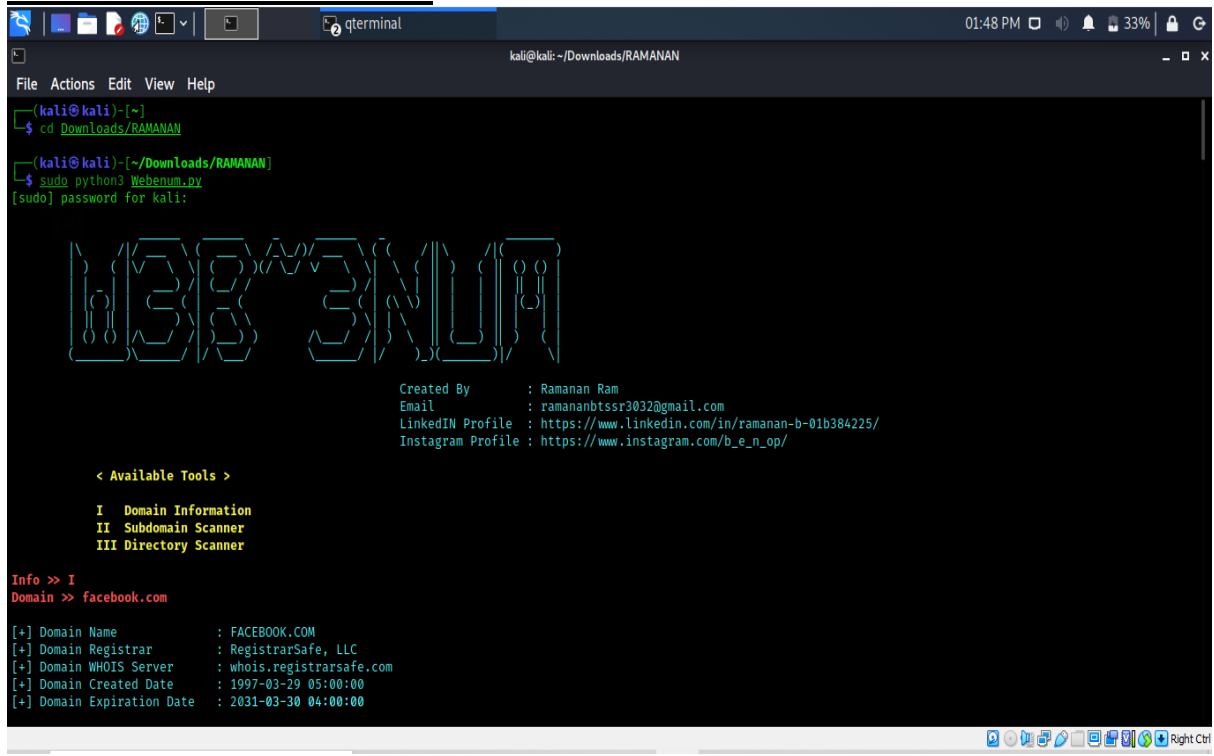
```

```
print(v+"Enter an valid option")
while True:
    WebEnum()

if __name__=="__main__":
    WebEnum()
```

SCREENSHOT:

DOMAIN INFORMATION



```
kali@kali: ~/Downloads/RAMANAN
File Actions Edit View Help
(kali@kali)~$ cd Downloads/RAMANAN
(kali@kali)~/Downloads/RAMANAN$ sudo python3 Webenum.py
[sudo] password for kali:

  W E B E N U M

Created By      : Ramanan Ram
Email          : ramananbtssr3032@gmail.com
LinkedIn Profile : https://www.linkedin.com/in/ramanan-b-01b384225/
Instagram Profile : https://www.instagram.com/b_e_n_op/

< Available Tools >
I   Domain Information
II  Subdomain Scanner
III Directory Scanner

Info >> I
Domain >> facebook.com

[+] Domain Name      : FACEBOOK.COM
[+] Domain Registrar : RegistrarSafe, LLC
[+] Domain WHOIS Server : whois.registrarsafe.com
[+] Domain Created Date : 1997-03-29 05:00:00
[+] Domain Expiration Date : 2031-03-30 04:00:00
```

```
kali@kali: ~/Downloads/RAMANAN
[+] password for kali:

Created By      : Ramanan Ram
Email          : ramanantssr3032@gmail.com
LinkedIN Profile : https://www.linkedin.com/in/ramanan-b-01b384225/
Instagram Profile : https://www.instagram.com/b_e_n_op/

< Available Tools >
I  Domain Information
II Subdomain Scanner
III Directory Scanner

Info >> I
Domain >> facebook.com

[+] Domain Name      : FACEBOOK.COM
[+] Domain Registrar : RegistrarSafe, LLC
[+] Domain WHOIS Server : whois.registrarsafe.com
[+] Domain Created Date : 1997-03-29 05:00:00
[+] Domain Expiration Date : 2031-03-30 04:00:00
[+] Domain Emails      : ['abusecomplaints@registrarsafe.com', 'domain@fb.com']
[+] Domain Address     : 1601 Willow Rd
[+] Domain City        : Menlo Park
[+] Domain State       : CA
[+] Domain Country     : US
```

SUBDOMAIN SCANNER:

```
kali@kali: ~/Downloads/RAMANAN
$ sudo python3 Webenum.py

Created By      : Ramanan Ram
Email          : ramanantssr3032@gmail.com
LinkedIN Profile : https://www.linkedin.com/in/ramanan-b-01b384225/
Instagram Profile : https://www.instagram.com/b_e_n_op/

< Available Tools >
I  Domain Information
II Subdomain Scanner
III Directory Scanner

Info >> II
Target URL >> facebook.com
[+] Discovering Critical Subdomains ...
[+] Discovered Subdomains -> www.facebook.com
[+] Discovered Subdomains -> m.facebook.com
[+] Discovered Subdomains -> mobile.facebook.com
[+] Discovered Subdomains -> api.facebook.com
[+] Discovered Subdomains -> secure.facebook.com
[+] Discovered Subdomains -> webmail.facebook.com
[+] Discovered Subdomains -> news.facebook.com
[+] Discovered Subdomains -> ww2.facebook.com
```

```
qterminal
kali@kali: ~/Downloads/RAMANAN

III Directory Scanner

Info >> II
Target URL >> facebook.com
[+] Discovering Critical Subdomains ...
[+] Discovered Subdomains -> www.facebook.com
[+] Discovered Subdomains -> m.facebook.com
[+] Discovered Subdomains -> mobile.facebook.com
[+] Discovered Subdomains -> api.facebook.com
[+] Discovered Subdomains -> secure.facebook.com
[+] Discovered Subdomains -> webmail.facebook.com
[+] Discovered Subdomains -> news.facebook.com
[+] Discovered Subdomains -> www2.facebook.com
[+] Discovered Subdomains -> static.facebook.com
[+] Discovered Subdomains -> ads.facebook.com
[+] Discovered Subdomains -> beta.facebook.com
[+] Discovered Subdomains -> my.facebook.com
[+] Discovered Subdomains -> upload.facebook.com
[+] Discovered Subdomains -> shop.facebook.com
[+] Discovered Subdomains -> dns.facebook.com
[+] Discovered Subdomains -> pay.facebook.com
[+] Discovered Subdomains -> new.facebook.com
[+] Discovered Subdomains -> m2.facebook.com
[+] Discovered Subdomains -> business.facebook.com
[+] Discovered Subdomains -> c.facebook.com
[+] Discovered Subdomains -> tools.facebook.com
[+] Discovered Subdomains -> apps.facebook.com
[+] Discovered Subdomains -> t.facebook.com
[+] Discovered Subdomains -> ns.facebook.com
[+] Discovered Subdomains -> community.facebook.com
[+] Discovered Subdomains -> connect.facebook.com
[+] Discovered Subdomains -> iphone.facebook.com
Traceback (most recent call last):
  File "/home/kali/Downloads/RAMANAN/Webenum.py", line 73, in <module>
    WebEnum()
  File "/home/kali/Downloads/RAMANAN/Webenum.py", line 51, in WebEnum
    subdomain()
  File "/home/kali/Downloads/RAMANAN/SubdomainScanner.py", line 27, in subdomain
    response = request(test_url)
  File "/home/kali/Downloads/RAMANAN/SubdomainScanner.py", line 16, in request
    return requests.get('https://' + url)
  File "/usr/lib/python3/dist-packages/requests/api.py", line 76, in get
    return request('get', url, params=params, **kwargs)
  File "/usr/lib/python3/dist-packages/requests/api.py", line 61, in request
    return session.request(method=method, url=url, **kwargs)
  File "/usr/lib/python3/dist-packages/requests/sessions.py", line 528, in request
    prep = self.prepare_request(req)
  File "/usr/lib/python3/dist-packages/requests/sessions.py", line 456, in prepare_request
    p.prepare()
  File "/usr/lib/python3/dist-packages/requests/models.py", line 316, in prepare
    self.prepare_url(url, params)
  File "/usr/lib/python3/dist-packages/requests/models.py", line 405, in prepare_url
    raise InvalidURL("URL has an invalid label.")
requests.exceptions.InvalidURL: URL has an invalid label.
```

DIRECTORY SCANNER:

```
kali@kali: ~/Downloads/RAMANAN
File Actions Edit View Help

(kali@kali)~/Downloads/RAMANAN
$ sudo python3 Webenum.py
[sudo] password for kali:

  W E B E N U M

Created By      : Ramanan Ram
Email          : ramananbtssr3032@gmail.com
LinkedIn Profile : https://www.linkedin.com/in/ramanan-b-01b384225/
Instagram Profile : https://www.instagram.com/b_e_n_op/

< Available Tools >

I  Domain Information
II Subdomain Scanner
III Directory Scanner

Info >> III
Target URL >> ine.com
[+] Discovering Critical Directories ...
[+] Discovered URL -> ine.com/.bash_history
[+] Discovered URL -> ine.com/.bashrc
[+] Discovered URL -> ine.com/.cvs
[+] Discovered URL -> ine.com/.cvsignore
[+] Discovered URL -> ine.com/.forward
[+] Discovered URL -> ine.com/.history
[+] Discovered URL -> ine.com/.htaccess
```

```
kali@kali: ~/Downloads/RAMANAN
File Actions Edit View Help

[+] Discovered URL -> ine.com/.htpasswd
[+] Discovered URL -> ine.com/.listing
[+] Discovered URL -> ine.com/.passwd
[+] Discovered URL -> ine.com/.perf
[+] Discovered URL -> ine.com/.profile
[+] Discovered URL -> ine.com/.rhosts
[+] Discovered URL -> ine.com/.ssh
[+] Discovered URL -> ine.com/.subversion
[+] Discovered URL -> ine.com/.svn
[+] Discovered URL -> ine.com/.web
[+] Discovered URL -> ine.com/0
[+] Discovered URL -> ine.com/1
[+] Discovered URL -> ine.com/123
[+] Discovered URL -> ine.com/177
[+] Discovered URL -> ine.com/2
[+] Discovered URL -> ine.com/20
[+] Discovered URL -> ine.com/2013
[+] Discovered URL -> ine.com/2016
[+] Discovered URL -> ine.com/25
[+] Discovered URL -> ine.com/31
[+] Discovered URL -> ine.com/32
[+] Discovered URL -> ine.com/4
[+] Discovered URL -> ine.com/404
[+] Discovered URL -> ine.com/45
[+] Discovered URL -> ine.com/500
[+] Discovered URL -> ine.com/96
[+] Discovered URL -> ine.com/A
[+] Discovered URL -> ine.com/ADMIN
[+] Discovered URL -> ine.com/About
[+] Discovered URL -> ine.com/Admin
[+] Discovered URL -> ine.com/Articles
[+] Discovered URL -> ine.com/B
[+] Discovered URL -> ine.com/Base
[+] Discovered URL -> ine.com/Blog
[+] Discovered URL -> ine.com/Business
```

```
qtterminal
kali@kali: ~/Downloads/RAMANAN

File Actions Edit View Help

[+] Discovered URL → ine.com/Business
[+] Discovered URL → ine.com/C
[+] Discovered URL → ine.com/Contact
[+] Discovered URL → ine.com/D
[+] Discovered URL → ine.com/Download
[+] Discovered URL → ine.com/Downloads
[+] Discovered URL → ine.com/E
[+] Discovered URL → ine.com/English
[+] Discovered URL → ine.com/Entertainment
[+] Discovered URL → ine.com/Events
[+] Discovered URL → ine.com/F
[+] Discovered URL → ine.com/FAQ
[+] Discovered URL → ine.com/G
[+] Discovered URL → ine.com/H
[+] Discovered URL → ine.com/Health
[+] Discovered URL → ine.com/Help
[+] Discovered URL → ine.com/Home
[+] Discovered URL → ine.com/I
[+] Discovered URL → ine.com/L
[+] Discovered URL → ine.com/LICENSE
[+] Discovered URL → ine.com/Links
[+] Discovered URL → ine.com/Log
[+] Discovered URL → ine.com/Login
[+] Discovered URL → ine.com/M
[+] Discovered URL → ine.com/Media
[+] Discovered URL → ine.com/Members
[+] Discovered URL → ine.com/N
[+] Discovered URL → ine.com/News
[+] Discovered URL → ine.com/O
[+] Discovered URL → ine.com/P
[+] Discovered URL → ine.com/PHP
[+] Discovered URL → ine.com/Pages
[+] Discovered URL → ine.com/Privacy
[+] Discovered URL → ine.com/PrivacyPolicy
[+] Discovered URL → ine.com/Products
```

```
qtterminal
kali@kali: ~/Downloads/RAMANAN

File Actions Edit View Help

[+] Discovered URL → ine.com/Members
[+] Discovered URL → ine.com/N
[+] Discovered URL → ine.com/News
[+] Discovered URL → ine.com/O
[+] Discovered URL → ine.com/P
[+] Discovered URL → ine.com/PHP
[+] Discovered URL → ine.com/Pages
[+] Discovered URL → ine.com/Privacy
[+] Discovered URL → ine.com/PrivacyPolicy
[+] Discovered URL → ine.com/Products
[+] Discovered URL → ine.com/R
[+] Discovered URL → ine.com/RSS
[+] Discovered URL → ine.com/Research
[+] Discovered URL → ine.com/Resources
[+] Discovered URL → ine.com/S
[+] Discovered URL → ine.com/Security
[+] Discovered URL → ine.com/Services
[+] Discovered URL → ine.com/SiteMap
[+] Discovered URL → ine.com/Software
[+] Discovered URL → ine.com/Sports
[+] Discovered URL → ine.com/Support
[+] Discovered URL → ine.com/T
[+] Discovered URL → ine.com/V
[+] Discovered URL → ine.com/Video
[+] Discovered URL → ine.com/W
[+] Discovered URL → ine.com/X
[+] Discovered URL → ine.com/XXX
[+] Discovered URL → ine.com/_
[+] Discovered URL → ine.com/_/
Traceback (most recent call last):
  File "/home/kali/Downloads/RAMANAN/Webenum.py", line 73, in <module>
    WebEnum()
  File "/home/kali/Downloads/RAMANAN/Webenum.py", line 54, in WebEnum
    DirScan()
  File "/home/kali/Downloads/RAMANAN/DirectoryScanner.py", line 24, in DirScan
```