



# Passive Information Gathering

**LLC 500 Cybersecurity and Ethical Hacking**

[www.linuxlearningcentre.co.ke](http://www.linuxlearningcentre.co.ke)



# Website Reconnaissance

It is the practice of covertly discovering and collecting information about a website.

Site reconnaissance is gaining knowledge by directly observing the site.

Recon in general Will be described as information collection/OSINT/Discovery Etc.

Two Types in general:  
Active and passive recon

# Website Recon tools

Page 03

- ✦ BlindElephant – <https://github.com/lokiifer/BlindElephant>
  - ✦ CMS detection and exploitation –  
<https://github.com/Tuhinshubhra/CMSeek>
  - ✦ CMSmap reconnaissance tool for popular CMS frameworks  
<https://github.com/Dionach/CMSmap>
  - ✦ Gitem (GitHub organization reconnaissance tool).  
<https://github.com/mschwager/gitem>
  - ✦ Recon-ng (web reconnaissance framework).  
<https://github.com/lanmaster53/recon-ng>
  - ✦ Recox  
<https://github.com/samhaxr/recox>
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# Website Recon tools

Page 03

- ✦ VHostScan (virtual host scanner).  
<https://github.com/codingo/VHostScan>
  - ✦ Wappalyzer (discovery of technology stack).  
<https://github.com/wappalyzer/wappalyzer>
  - ✦ detectem (software enumeration).  
<https://github.com/alertot/detectem>
  - ✦ shcheck (test HTTP headers of web applications).  
<https://github.com/santoru/shcheck>
  - ✦ Fsociety Hacking Tools Pack ✦  
<https://github.com/Manisso/fsociety>
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# Netcraft

Page 05

Netcraft is an internet service association that provides detailed data about the web facilitating and the Server with point-by-point data on what is running on the server alongside the IP, Whois data, server-side technologies, and so on. This information ought to be saved in your reports with the goal that you can utilize all the data to find the correct testing methodology and characterize the attack surface, which is the essential piece of a pentest.

<https://www.netcraft.com/>

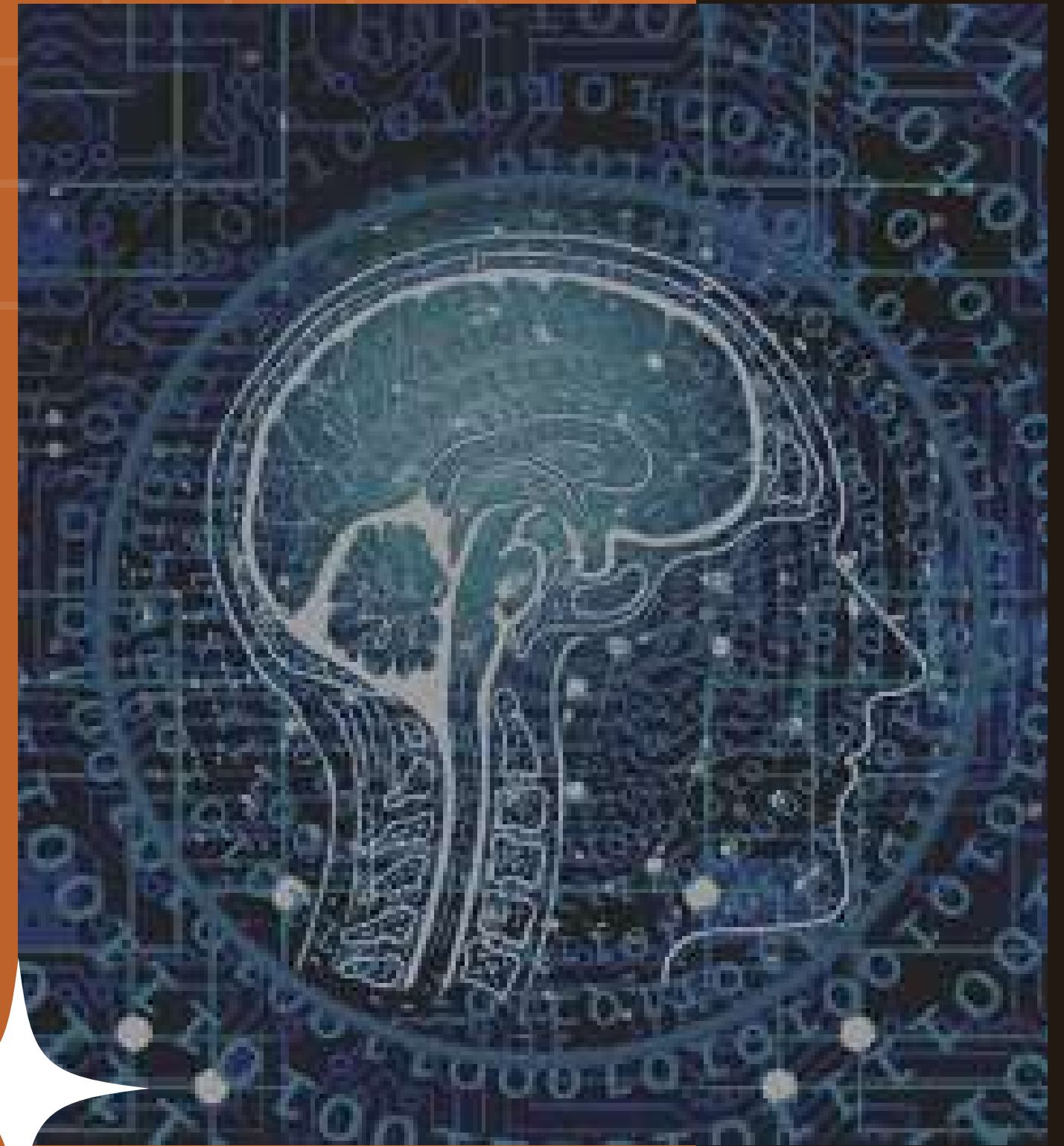




# Shodan.io

Shodan is a search engine that lets the user find specific types of computers connected to the internet using a variety of filters.

Shodan is a search engine for hackers. You know Google, Bing, Yahoo, and DuckDuckGo all crawls front end web pages. Shodan crawls the IPs for devices such as printers, security cameras, Refrigerators, and routers, which are connected to internet.(IOT Devices)



# Shodan Dorks

- device in particular area like in a country – **country:"IN"**
- a particular city – **city:"Washington"**
- geographical co-ordinates:- **geo:"47.751076, -120.740135"**
- a particular organization – **org:"Facebook"**
- You can filter windows RDP password by searching  
**"\x03\x00\x00\x0b\x06\xd0\x00\x00\x124\x00"**
- find default router page with default password:- **html:"def\_wirelesspassword"**
- webcams connected worldwide: (**"webcam 7" OR "webcamXP"**)  
**http.component:"mootools" -401**
- Printers: **"Serial Number:" "Built:" "Server: HP HTTP"**
- Epson Printer – **"SERVER: EPSON\_Linux UPnP" "200 OK"**
- Mongo DB Servers: – **"MongoDB Server Information" port:27017 -authentication**
- Misconfigured Wordpress Sites: **http.html:"\* The wp-config.php creation script uses this file"**
- Reference: – **<https://github.com/jakejarvis/awesome-shodan-queries>**

# Pastebin

01

Text-sharing “pastebin” sites, such as Pastebin are a popular repository of compromised data

02

perpetrators of computer breaches post the data they have stolen on such sites. Sometimes, sensitive information is unwittingly leaked by a company’s employee.

03

Cool Codes

***<https://pastebin.com/5mwBqXSH>***

04

Databases

***<https://pastebin.com/DiLTsthW>***



# Email harvesting

**Email harvesting is an effective way of finding emails, and possibly usernames, belonging to an organization.**

These emails are useful in many ways, such as providing us a potential list for client side attacks, revealing the naming convention used in the organization, or mapping out users in the organization.

**\$ theHarvester -d cisco.com -b google >ciscoemails.txt**



# Password Dumps

## Pwned Passwords

Pwned Passwords are hundreds of millions of real world passwords previously exposed in data breaches.

This exposure makes them unsuitable for ongoing use as they're at much greater risk of being used to take over other accounts

<https://haveibeenpwned.com/>

<https://haveibeenpwned.com/Passwords>

```
...}}},c.prototype,
  and('[data-toggle="tab"]'
  idClass("in")):b.removeClass(
  ia-expanded",b.removeClass()var g=d.
  ngth&&h?g.one("bsTransitionEnd",f)
  onstructor=Object.getPrototypeOf(c).constructor
  .data-api",b.data("bs.tab"),e)
  each(function(e,d){this.options=e,d
  }){this.options=this.options||{};c.DEFAULT
  "click.bs.affix.data-api",a.
  ition());c.VERSION="3.3"
  rollTop(),f=this
```

# OSINT FRAMEWORK

## OSINT

OSINT framework focused on gathering information from free tools or resources. The intention is to help people find free OSINT resources.

It can be used to extract data by analyzing various public platforms. These platforms include news, image, social media platforms, etc.

<https://osintframework.com/>

```
...}}},c.prototype,
  and('[data-toggle="tab"]'
  idClass("in")):b.removeClass(
  ia-expanded",b.removeClass()var g=d.
  ngth&&h?g.one("bsTransitionEnd",f)
  onstructor=Object.getPrototypeOf(c).constructor
  .data-api",b.data("bs.tab"),e)
  each(function(e,d){this.options=e,d
  }){this.options=this.options||{};c.DEFAULT
  "click.bs.affix.data-api",a.
  ition());c.VERSION="3.3"
  rollTop(),f=this
```

# Maltego

**Maltego is a data mining tool that mines a variety of open-source data resources and uses that data to create graphs for analyzing connections.**

- ✦ The graphs allow you to easily make connections between information such as name, email organizational structure, domains, documents, etc

Reference

<https://wondersmithrae.medium.com/a-beginners-guide-to-osint-investigation-with-maltego-6b195f7245cc>

# DNS Enumeration

Presentation by

**DNS enumeration is the process of locating all the DNS servers and their corresponding records for an organization. DNS enumeration will yield usernames, computer names, and IP addresses of potential target systems.**

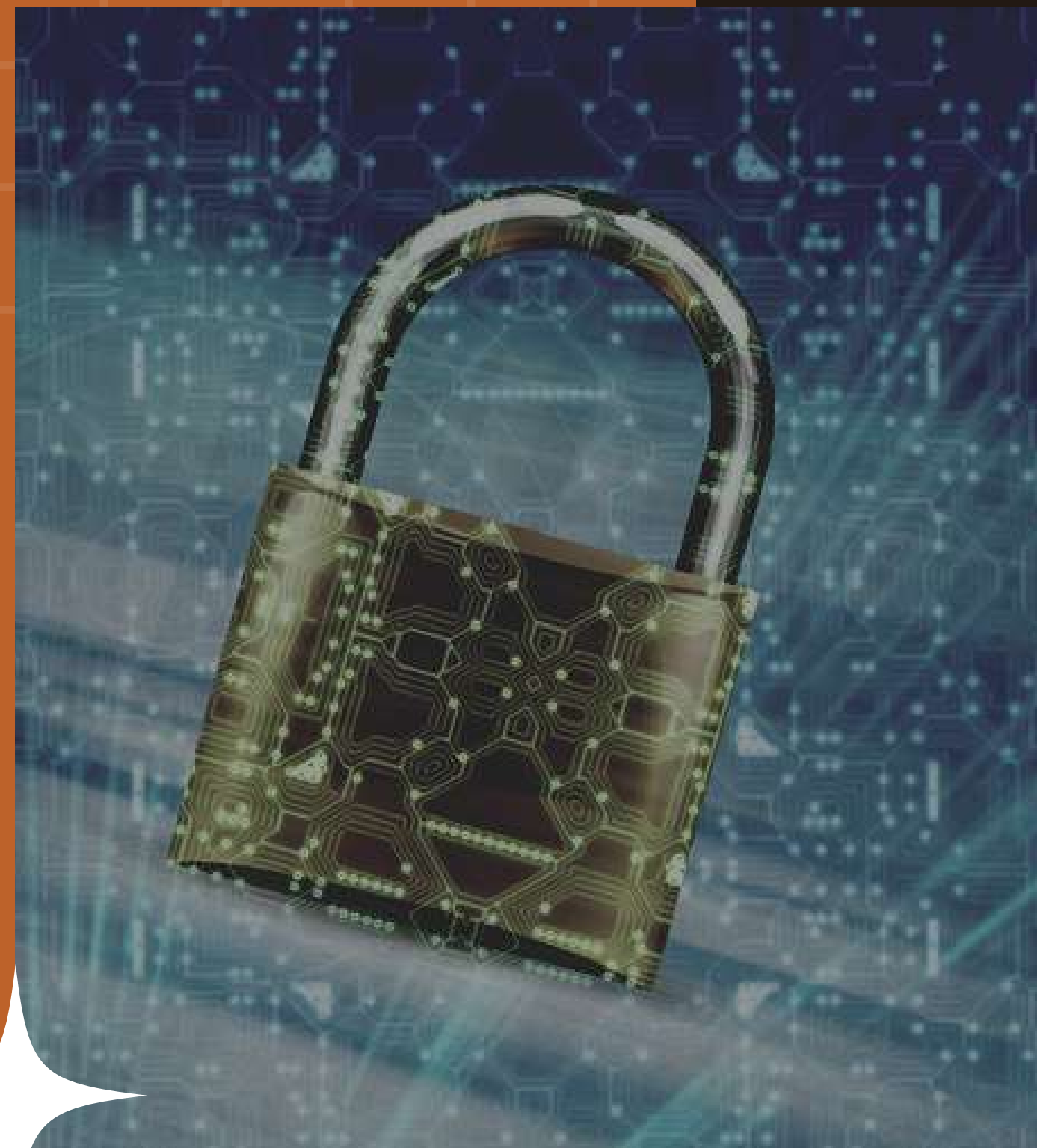
```
https://www.nslookup.io/  
dnsrecon -d www.cisco.com  
dig cisco.com -t ns +short  
host cisco.com
```

---



# OSINT TOOLS

- <https://github.com/ThoughtfulDev/EagleEye>
- <https://github.com/DataSploit/datasploit>
- <https://github.com/threat9/routersploit>
- <https://github.com/tweepy/tweepy>
- <https://nmap.org/zenmap/>



# CYBER SEC CONFERENCES

Page 11

<https://media.defcon.org/>

<https://www.blackhat.com/html/archives.html>

<https://conference.africahackon.com/>

<https://twitter.com/cyberspeaklc?lang=en>

[https://twitter.com/shehacks\\_ke](https://twitter.com/shehacks_ke)



# INFORMATION GATHERING

Presentation by **Linux Learning Centre Ltd**

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