

## Assignment 2

### Footprinting & reconnaissance

Footprinting and reconnaissance are initial phases of the cyber attack process, focused on gathering information about a target system or network to identify vulnerabilities and potential points of entry. Here's a breakdown of each:

1. **Footprinting:** This is the passive phase where attackers collect information about the target without directly interacting with it. It involves gathering data from publicly available sources such as company websites, social media, job postings, WHOIS databases, and search engines. The goal is to gather information like IP addresses, domain names, employee names, contact details, network diagrams, and technology in use. Footprinting helps attackers understand the target's infrastructure and aids in planning subsequent attacks.

2. **Reconnaissance:** This is the active phase where attackers probe the target system or network for more detailed information. Unlike footprinting, reconnaissance involves direct interaction with the target. Techniques include port scanning to identify open ports and services, network mapping to understand the network topology, banner grabbing to gather information about specific services and versions running on those ports, and OS fingerprinting to determine the operating system in use. Reconnaissance helps attackers identify potential vulnerabilities and weaknesses in the target's defenses.

Both footprinting and reconnaissance are essential steps in the cyber kill chain, providing attackers with the information needed to launch successful attacks. Organizations must defend against these activities by implementing robust security measures such as network segmentation, access controls, intrusion detection systems, and regular security assessments to identify and mitigate potential weaknesses.

Footprinting and reconnaissance are crucial initial phases in cybersecurity, aimed at gathering information about a target system or organization. Here are the steps typically involved:

- **Passive Information Gathering:** This involves gathering information without directly interacting with the target. Techniques include:
  - **Search engines:** Using search engines like Google to find publicly available information.
  - **Social media:** Analyzing social media platforms for information about employees, organizational structure, events, etc.
  - **WHOIS lookup:** Retrieving domain registration information to identify domain owners and administrators.

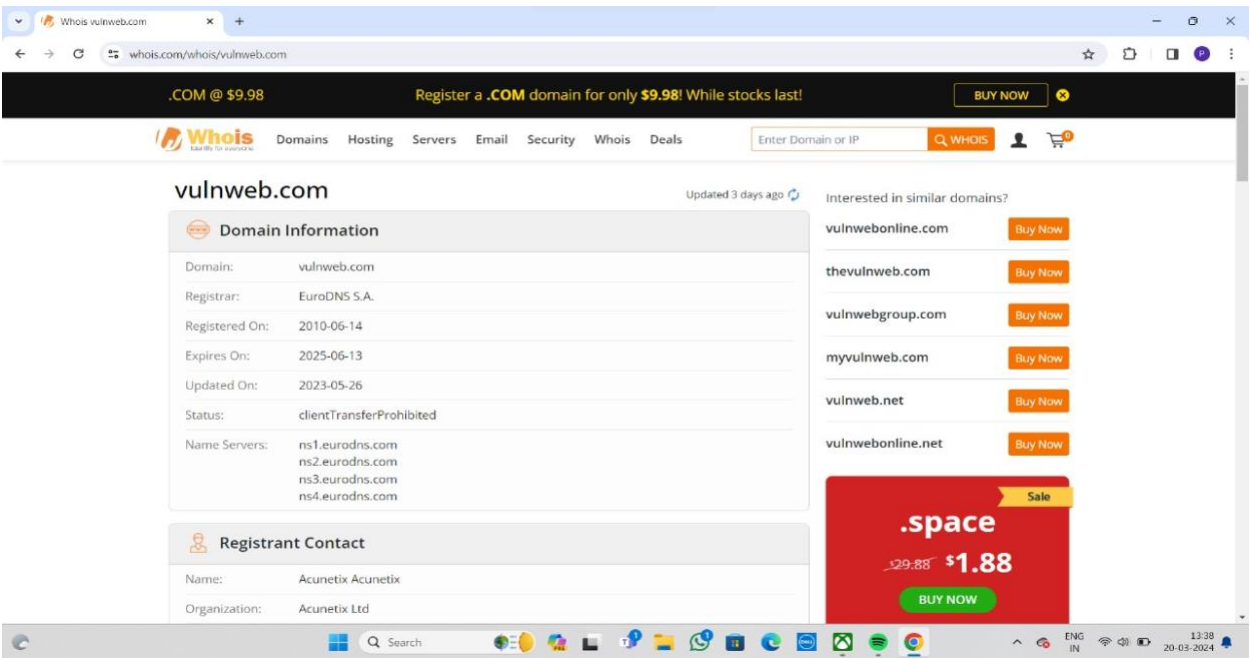
- **DNS interrogation:** Gathering information about the target's DNS infrastructure, such as identifying subdomains.
- **Publicly available databases:** Searching for information in publicly available databases like job postings, press releases, etc.
- **Active Information Gathering:** This involves directly interacting with the target to gather information. Techniques include:
  - **Port scanning:** Identifying open ports and services on target systems.
  - **Network mapping:** Mapping the network infrastructure of the target organization.
  - **Banner grabbing:** Gathering information about the target's services, including software versions.
  - **Vulnerability scanning:** Identifying potential vulnerabilities in target systems.
- **Analysis:** Analyzing the gathered information to identify potential vulnerabilities, weaknesses, and areas of interest.
- **Reporting:** Documenting the findings and preparing a report to present the information gathered, potential vulnerabilities identified, and recommendations for further action.
- **Ethical Considerations:** It's important to conduct footprinting and reconnaissance ethically and legally, ensuring that all activities are within the bounds of the law and any relevant ethical guidelines.
- **Continuous Monitoring:** Footprinting and reconnaissance are ongoing processes, as information about the target may change over time. Regular monitoring and updates are essential to maintain an accurate understanding of the target environment.

By following these steps, cybersecurity professionals can gather valuable intelligence about their target, helping to inform subsequent security assessments and defensive measures.

# Footprinting and Reconnaissance

## Information gathering in WHOIS website

### Domain information



### Registrant contact

Registrant Contact	
Name:	Acunetix Acunetix
Organization:	Acunetix Ltd
Street:	3rd Floor,, J&C Building,, Road Town
City:	Tortola
Postal Code:	VG1110
Country:	VG
Phone:	+1.23456789
Email:	administrator@acunetix.com

### Administrative contact



## Administrative Contact

Name:	Acunetix Acunetix
Organization:	Acunetix Ltd
Street:	3rd Floor,, J&C Building,, Road Town
City:	Tortola
Postal Code:	VG1110
Country:	VG
Phone:	+1.23456789
Email:	<b>administrator</b> @acunetix.com

## Technical contact



## Technical Contact

Name:	Acunetix Acunetix
Organization:	Acunetix Ltd
Street:	3rd Floor,, J&C Building,, Road Town
City:	Tortola
Postal Code:	VG1110
Country:	VG
Phone:	+1.23456789
Email:	<b>administrator</b> @acunetix.com

## Raw whois Data

Domain Name: vulnweb.com

Registry Domain ID: D16000066-COM

Registrar WHOIS Server: whois.eurodns.com

Registrar URL: <http://www.eurodns.com>

Updated Date: 2023-05-26T10:04:20Z

Creation Date: 2010-06-14T00:00:00Z

Registrar Registration Expiration Date: 2025-06-13T00:00:00Z

Registrar: Eurodns S.A.

Registrar IANA ID: 1052

Registrar Abuse Contact Email: [email@eurodns.com](mailto:email@eurodns.com)

Registrar Abuse Contact Phone: +352.27220150

Domain Status: client Transfer Prohibited

<http://www.icann.org/epp#clientTransferProhibited>

Registry Registrant ID:

Registrant Name: Acunetix Acunetix

Registrant Organization: Acunetix Ltd

Registrant Street: 3rd Floor,, J&C Building,, Road Town

Registrant City: Tortola

Registrant State/Province:

Registrant Postal Code: VG1110

Registrant Country: VG

Registrant Phone: +1.23456789

Registrant Fax:

Registrant Email: [email@acunetix.com](mailto:email@acunetix.com)

Registry Admin ID:

Admin Name: Acunetix Acunetix

Admin Organization: Acunetix Ltd

Admin Street: 3rd Floor,, J&C Building,, Road Town

Admin City: Tortola

Admin State/Province:

Admin Postal Code: VG1 1 10

Admin Country: VG

Admin Phone: +1.23456789

Admin Fax:

Admin Email: email@acunetix.com

Registry Tech ID:

Tech Name: Acunetix Acunetix

Tech Organization: Acunetix Ltd

Tech Street: 3rd Floor,, J&C Building,, Road Town

Tech City: Tortola

Tech State/Province:

Tech Postal Code: VG1 1 10

Tech Country: VG

Tech Phone: +1.23456789

Tech Fax:

Tech Email: email@acunetix.com

Name Server: ns1.eurodns.com

Name Server: ns2.eurodns.com

Name Server: ns3.eurodns.com

Name Server: ns4.eurodns.com

DNSSEC: unsigned