Lab01 Ethical Hacking

The task for the first lab was to gather information about a specified target using passive information gathering methods.

Objectives included:

- Learn to use passive recon tools
- Learn to gather information from openly available sources

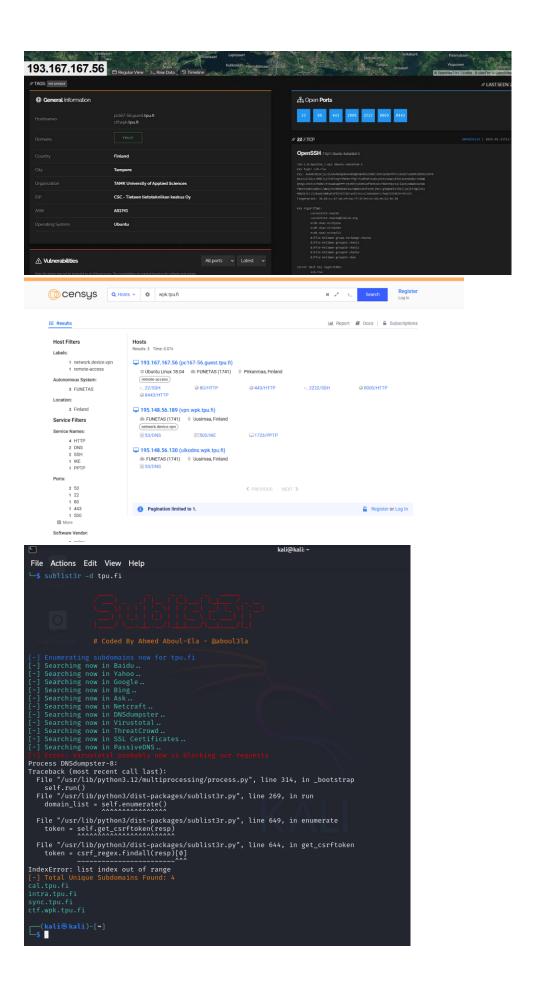
Scope:

- Subdomain: wpk.tpu.fi
- All possible hosts of it *.wpk.tpu.fi

Tools and Methods:

- Using only **passive** information gathering tools!
- Any tool or method that is suitable for **passive** recon.
- I chose several tools and methods that are listed below. There is also "Criticality-score" mentioned for each section.

Finding	Why important?	When found(dat e)	Tool/Method used	Criticality
1. 7 hosts for wpk.tpu.fi	Narrowing the search	25.1	TheHarvester	High (Reveals network infrastructure and potential targets for attacks)
2. SSL- certificates	Attacker can check for outdated SSL/TLS certificates	25.1	Crt.sh	Medium (Outdated certificates may lead to vulnerabilities, but not immediately critical for attack)
3. lp-address	Hacker can use IP- address to target an attack	25.1	TheHarvester	High (IP address is crucial for an attack)
4. GeoLocations for wpk.tpu.fi's IP address	Identifying geographical location helps plan physical attacks or determine origin of traffic	25.1	Censys/Shodan/i pinfo/curl	Medium (Geolocation helps identify the target but not directly for attacks)
5. Email-address	Attacker can send malicious data to victim emails	25.1	TheHarvester	High (Phishing attacks are possible)
6. Subdomains for tpu.fi and wpk.tpu.fi	Attacker can exploit data leaks from subdomains and find vulnerable systems	25.1	Sublist3r	High (Subdomains may reveal weak points or leaks)
7. People	Attacker can use personal data for more aggressive attacks (phishing, social engineering)	25.1	Whois	High (Social engineering and attacks on personal data)



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[*] LinkedIn Links found: 0

[*] IPs found: 1

193.167.167.56

[*] Emails found: 1

helpdesk@wpk.tpu.fi

[*] Hosts found: 7

ctf.wpk.tpu.fi
ctf.wpk.tpu.fi
ulkodns.wpk.tpu.fi
ulkodns.wpk.tpu.fi
ulkodns.wpk.tpu.fi
vpn.wpk.tpu.fi
vpn.
```

```
"\( \text{kali} \simeq \text{kali} \) - \( \text{*} \) \\
    \(
```

```
—(kali⊛ kali)-[~]
—$ curl ipinfo.io/193.167.167.56
"ip": "193.167.167.56",
 "hostname": "pc167-56.guest.tpu.fi",
 "city": "Tampere",
"region": "Pirkanmaa",
"country": "FI",
"loc": "61.4991,23.7871",
"org": "AS1741 CSC - Tieteen tietotekniikan keskus Oy",
 "postal": "33100",
 "timezone": "Europe/Helsinki",
 "readme": "https://ipinfo.io/missingauth"
```

crt.sh (Identity Search) 🔊 🗟 🔩





Criteria Type: Identity Match: ILIKE Search: 'wpk.tpu.fi'

Ce		

crt.sh ID	Logged At 1	Not Before	Not After	Common Name	Matching Identities	Issuer Name
15517402185	2024-11-27	2024-11-27	2025-02-25	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R10
15521992263	2024-11-27	2024-11-27	2025-02-25	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R10
14711004267	2024-09-27	2024-09-27	2024-12-26	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R10
14711001280	2024-09-27	2024-09-27	2024-12-26	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R10
13939025687	2024-07-29	2024-07-29	2024-10-27	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R10
13938508089	2024-07-29	2024-07-29	2024-10-27	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R10
12965488312	2024-05-06	2024-05-06	2024-08-04	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R3
12965483518	2024-05-06	2024-05-06	2024-08-04	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R3
12296759346	2024-03-06	2024-03-06	2024-06-04	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R3
12296757336	2024-03-06	2024-03-06	2024-06-04	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R3
11657652007	2024-01-06	2024-01-06	2024-04-05	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R3
11657647587	2024-01-06	2024-01-06	2024-04-05	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R3
11024493465	2023-11-07	2023-11-07	2024-02-05	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R3
11024487128	2023-11-07	2023-11-07	2024-02-05	ctf.wpk.tpu.fi	ctf.wpk.tpu.fi	C=US, O=Let's Encrypt, CN=R3