Information Gathering — Project Report

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Environment / Tools: Kali Linux (VM) — whois, nslookup/host/dig, whatweb, nmap, dirb, theHarvester / Google dorking, host, ping.

Target (examples used): Local VM `192.168.68.128` (authorized lab: bWAPP, DVWA, Bricks) and public example `instagram.com` (passive checks only).

1. Objective

Gather as much publicly available information about the given targets using only passive or allowed active methods. Do not perform exploitation. Produce a clear report with screenshots and recommended next steps.

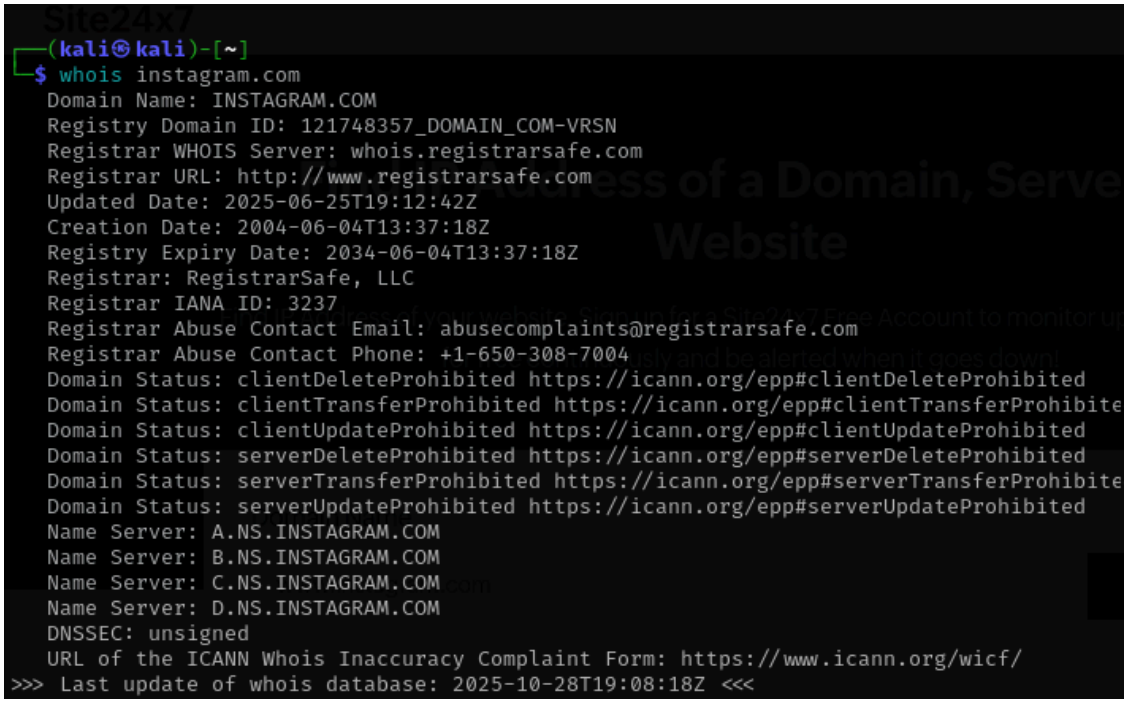
2. Scope & Rules

- Only passive and non-intrusive active checks (whois, DNS, ping, nmap service discovery, dirb directory discovery).
- No exploitation or unauthorized access.
- Testing performed only on authorized local VM (`192.168.68.128`). Public domain checks were passive.

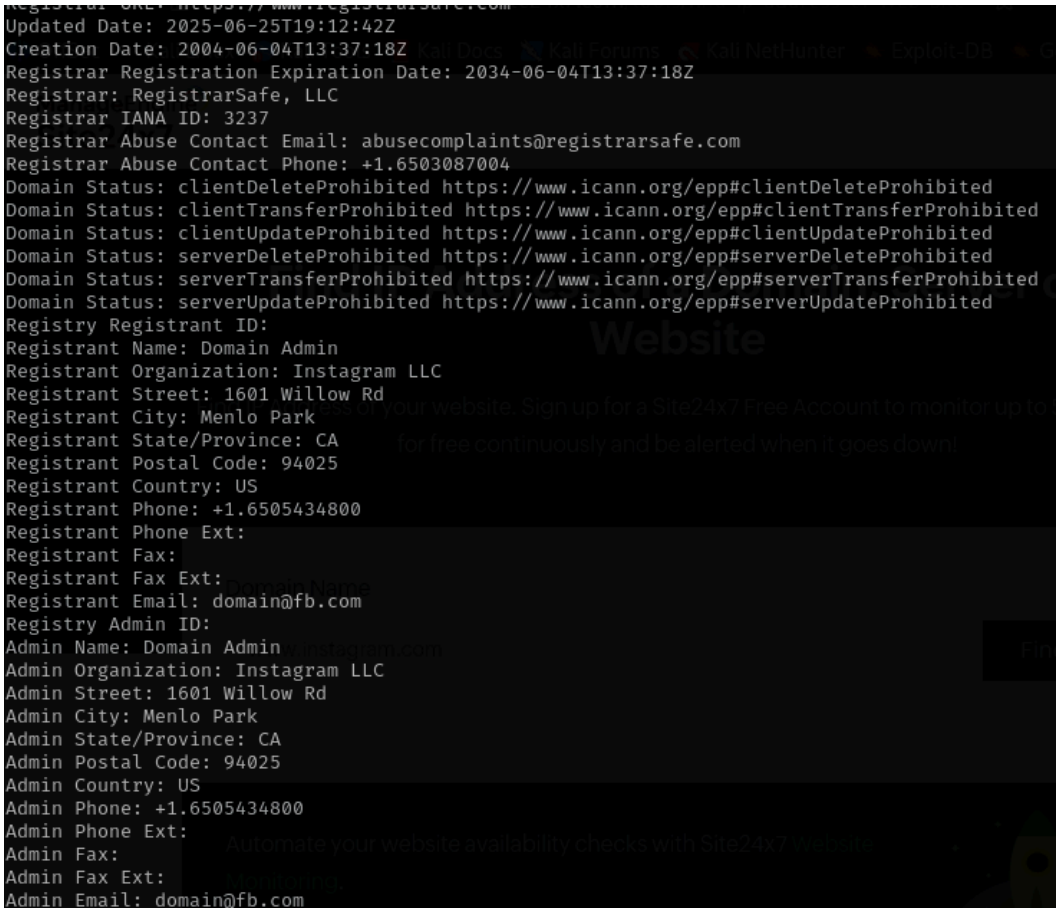
3. Basic Information

Target domain/IP: `instagram.com` (public example) / `192.168.68.128` (lab VM)
WHOIS: Captured registrar and registrant data for public example (Instagram LLC, Menlo Park, CA).

Hosting & Location (example): Resolved IPs geolocated to United States (sample shown in screenshots).



```
┌──(kali㉿kali)-[~]
└─$ whois instagram.com
   Domain Name: INSTAGRAM.COM
   Registry Domain ID: 121748357_DOMAIN_COM-VRSN
   Registrar WHOIS Server: whois.registrarsafe.com
   Registrar URL: http://www.registrarsafe.com
   Updated Date: 2025-06-25T19:12:42Z
   Creation Date: 2004-06-04T13:37:18Z
   Registry Expiry Date: 2034-06-04T13:37:18Z
   Registrar: RegistrarSafe, LLC
   Registrar IANA ID: 3237
   Registrar Abuse Contact Email: abusecomplaints@registrarsafe.com
   Registrar Abuse Contact Phone: +1-650-308-7004
   Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
   Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibite
   Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
   Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
   Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibite
   Domain Status: serverUpdateProhibited https://icann.org/epp#serverUpdateProhibited
   Name Server: A.NS.INSTAGRAM.COM
   Name Server: B.NS.INSTAGRAM.COM
   Name Server: C.NS.INSTAGRAM.COM
   Name Server: D.NS.INSTAGRAM.COM
   DNSSEC: unsigned
   URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of whois database: 2025-10-28T19:08:18Z <<<
```



```
Updated Date: 2025-06-25T19:12:42Z
Creation Date: 2004-06-04T13:37:18Z
Registrar Registration Expiration Date: 2034-06-04T13:37:18Z
Registrar: RegistrarSafe, LLC
Registrar IANA ID: 3237
Registrar Abuse Contact Email: abusecomplaints@registrarsafe.com
Registrar Abuse Contact Phone: +1.6503087004
Domain Status: clientDeleteProhibited https://www.icann.org/epp#clientDeleteProhibited
Domain Status: clientTransferProhibited https://www.icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited https://www.icann.org/epp#clientUpdateProhibited
Domain Status: serverDeleteProhibited https://www.icann.org/epp#serverDeleteProhibited
Domain Status: serverTransferProhibited https://www.icann.org/epp#serverTransferProhibited
Domain Status: serverUpdateProhibited https://www.icann.org/epp#serverUpdateProhibited
Registry Registrant ID:
Registrant Name: Domain Admin
Registrant Organization: Instagram LLC
Registrant Street: 1601 Willow Rd
Registrant City: Menlo Park
Registrant State/Province: CA
Registrant Postal Code: 94025
Registrant Country: US
Registrant Phone: +1.6505434800
Registrant Phone Ext:
Registrant Fax:
Registrant Fax Ext:
Registrant Email: domain@fb.com
Registry Admin ID:
Admin Name: Domain Admin
Admin Organization: Instagram LLC
Admin Street: 1601 Willow Rd
Admin City: Menlo Park
Admin State/Province: CA
Admin Postal Code: 94025
Admin Country: US
Admin Phone: +1.6505434800
Admin Phone Ext:
Admin Fax:
Admin Fax Ext:
Admin Email: domain@fb.com
```

S.No	Domain Name	IP Address
1	instagram.com.	31.13.70.174

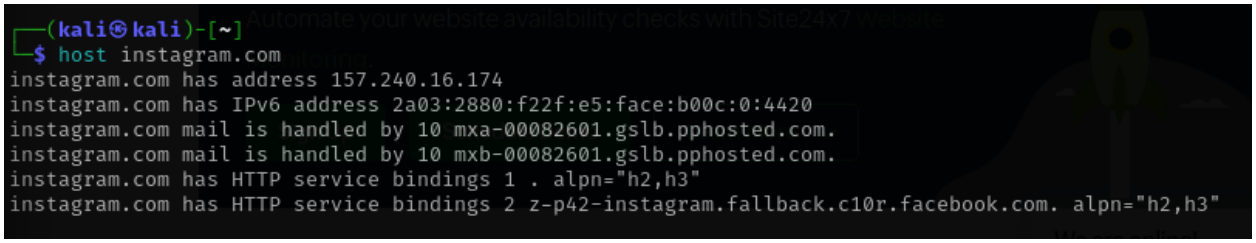
Country Code	Country Name	Region	City
US	UNITED STATES	CALIFORNIA	LOS ANGELES

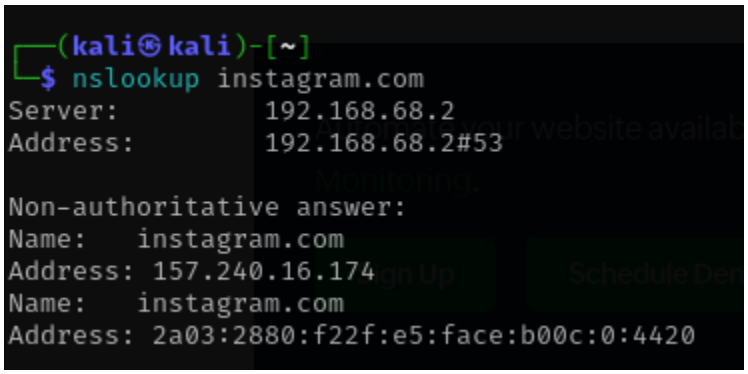
4. DNS Information

Commands used: `nslookup instagram.com` / `host instagram.com` / `dig instagram.com any`

Findings:

- A records and name servers found (e.g., `a.ns.instagram.com`, `b.ns.instagram.com`).
- No zone transfer allowed (no AXFR) on public nameservers (no unauthorized transfers attempted).





5. Technology Fingerprinting

Tools used: `whatweb`

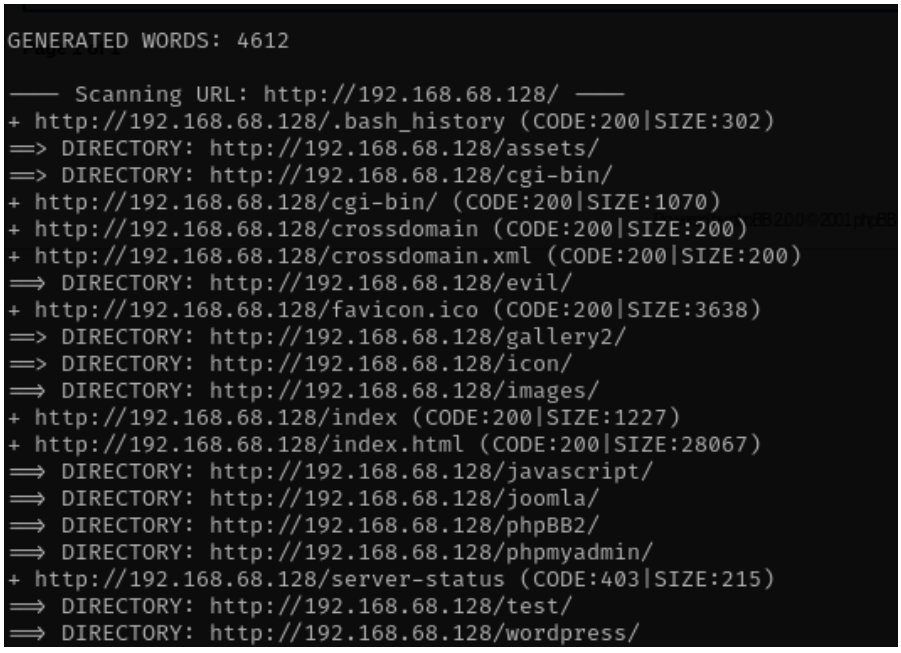
Findings (example): whatweb showed web server headers and security headers such as HSTS, X-Frame-Options — indicates proper hardening on the public site.

6. Directory & File Discovery

Tools used: `dirb`, wordlist `/usr/share/wordlists/dirb/common.txt`
Command example:

```
dirb http://192.168.68.128
/usr/share/wordlists/dirb/common.txt
```

Findings: Discovered many directories such as `/assets/`, `/cgi-bin/`, `/phpmyadmin/`, `/wordpress/`, `/images/`, `/index.html`. These may expose admin panels or sensitive files.



7. Open Ports & Services

Tools used: `nmap`, `nmap -sV` (service/version detection), selected NSE scripts for information only.

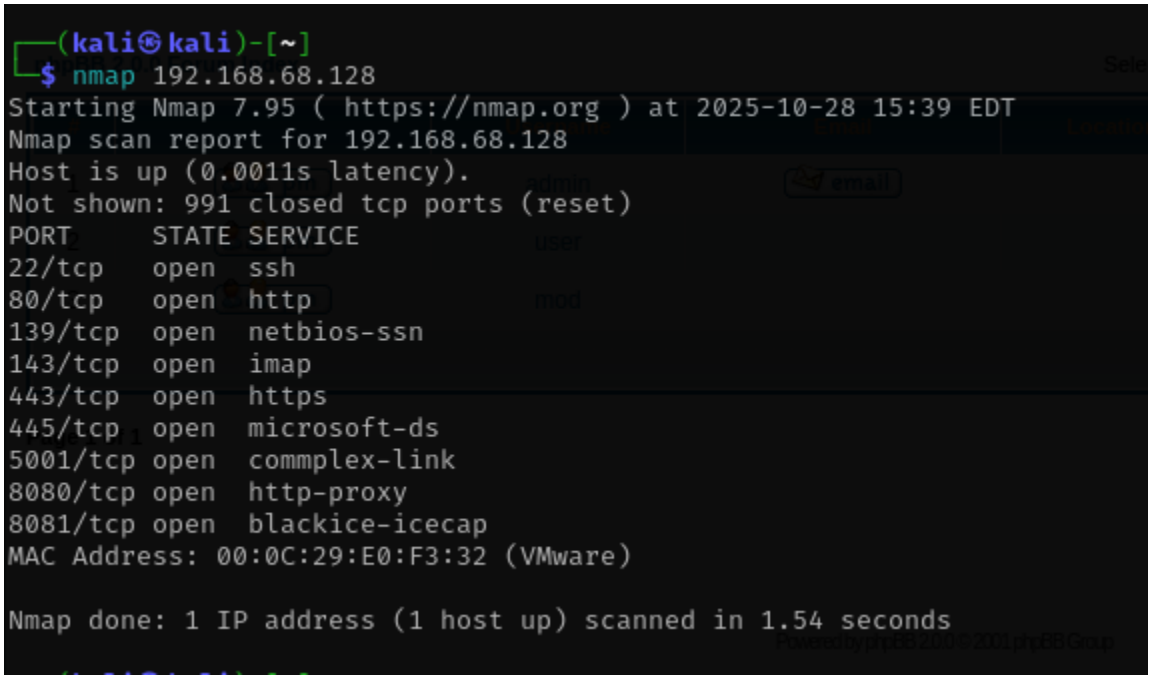
Commands used:

```
nmap 192.168.68.128
```

```
nmap -sV 192.168.68.128
```

Findings (sample):

- Open ports found on VM: `22` (SSH), `80` (HTTP), `443` (HTTPS), `139/445` (SMB), `8080/8081` (alternate web services).
- Services: Apache HTTPD, OpenSSH, Tomcat/Coyote, Jetty, Samba.
- NSE script flagged informational issue (CVE-2011-3192) — treat as a pointer to check versions and patch.



```
┌──(kali㉿kali)-[~]
└─$ nmap -sV 192.168.68.128
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-28 15:42 EDT
Nmap scan report for 192.168.68.128
Host is up (0.0030s latency).
Not shown: 991 closed tcp ports (reset)
PORT     STATE SERVICE     VERSION
22/tcp   open  ssh         OpenSSH 5.3p1 Debian 3ubuntu4 (Ubuntu Linux; protocol 2.0)
80/tcp   open  http        Apache httpd 2.2.14 ((Ubuntu) mod_mono/2.4.3 PHP/5.3.2-1ubuntu4.30 with Suhosin-P
xy_html/3.0.1 mod_python/3.3.1 Python/2.6.5 mod_ssl/2.2.14 OpenSSL ... )
139/tcp  open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
143/tcp  open  imap        Courier Imapd (released 2008)
443/tcp  open  ssl/http    Apache httpd 2.2.14 ((Ubuntu) mod_mono/2.4.3 PHP/5.3.2-1ubuntu4.30 with Suhosin-P
xy_html/3.0.1 mod_python/3.3.1 Python/2.6.5 mod_ssl/2.2.14 OpenSSL ... )
445/tcp  open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
5001/tcp open  java-object Java Object Serialization
8080/tcp open  http        Apache Tomcat/Coyote JSP engine 1.1
8081/tcp open  http        Jetty 6.1.25
1 service unrecognized despite returning data. If you know the service/version, please submit the following
int at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port5001-TCP:V=7.95%I=7%D=10/28%Time=69011C9A%P=x86_64-pc-linux-gnu%r(N
SF:ULL,4,"\xac\xed\0\x05");
MAC Address: 00:0C:29:E0:F3:32 (VMware)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 14.16 seconds
```

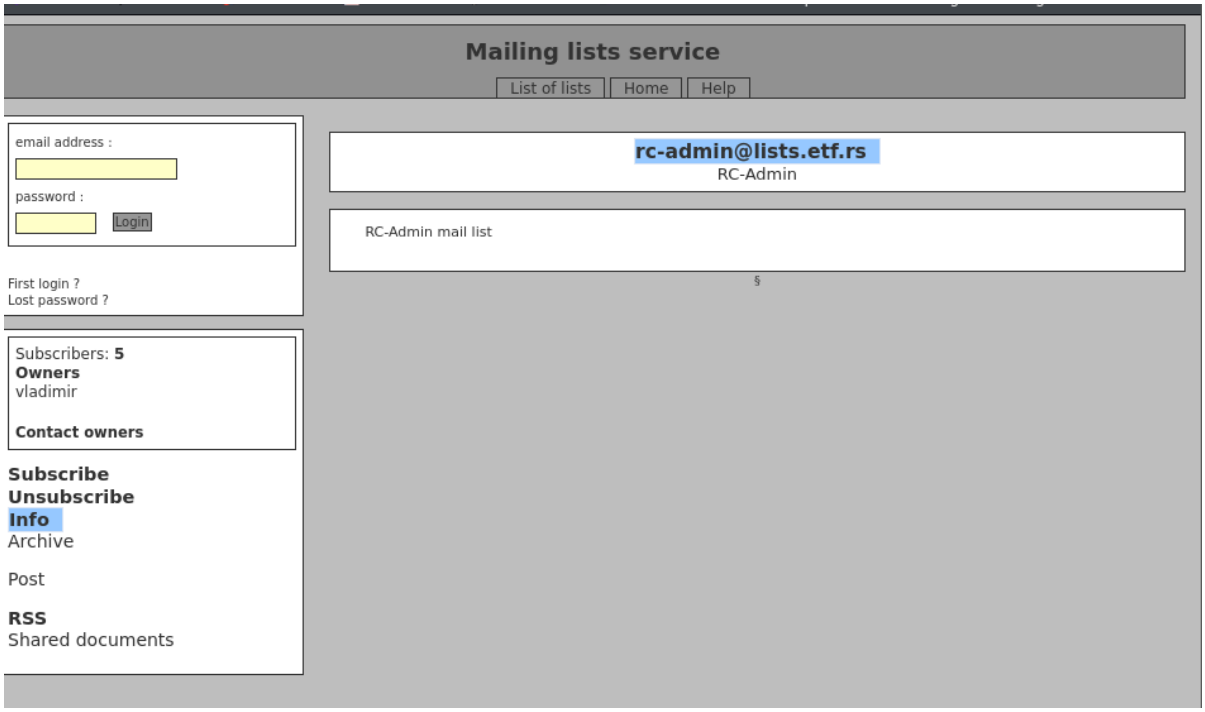
```
Nmap scan report for 192.168.68.128
Host is up (0.0020s latency).
Not shown: 991 closed tcp ports (reset)
PORT     STATE SERVICE
22/tcp   open  ssh
80/tcp   open  http
| http-internal-ip-disclosure:
|_  Internal IP Leaked: 127.0.1.1
| http-vuln-cve2011-3192:
|   VULNERABLE:
|   Apache byterange filter DoS
|     State: VULNERABLE
|     IDs:  CVE:CVE-2011-3192  BID:49303
|       The Apache web server is vulnerable to a denial of service attack when numerous
|       overlapping byte ranges are requested.
|     Disclosure date: 2011-08-19
|     References:
|       https://www.tenable.com/plugins/nessus/55976
|       https://seclists.org/fulldisclosure/2011/Aug/175
|       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2011-3192
```

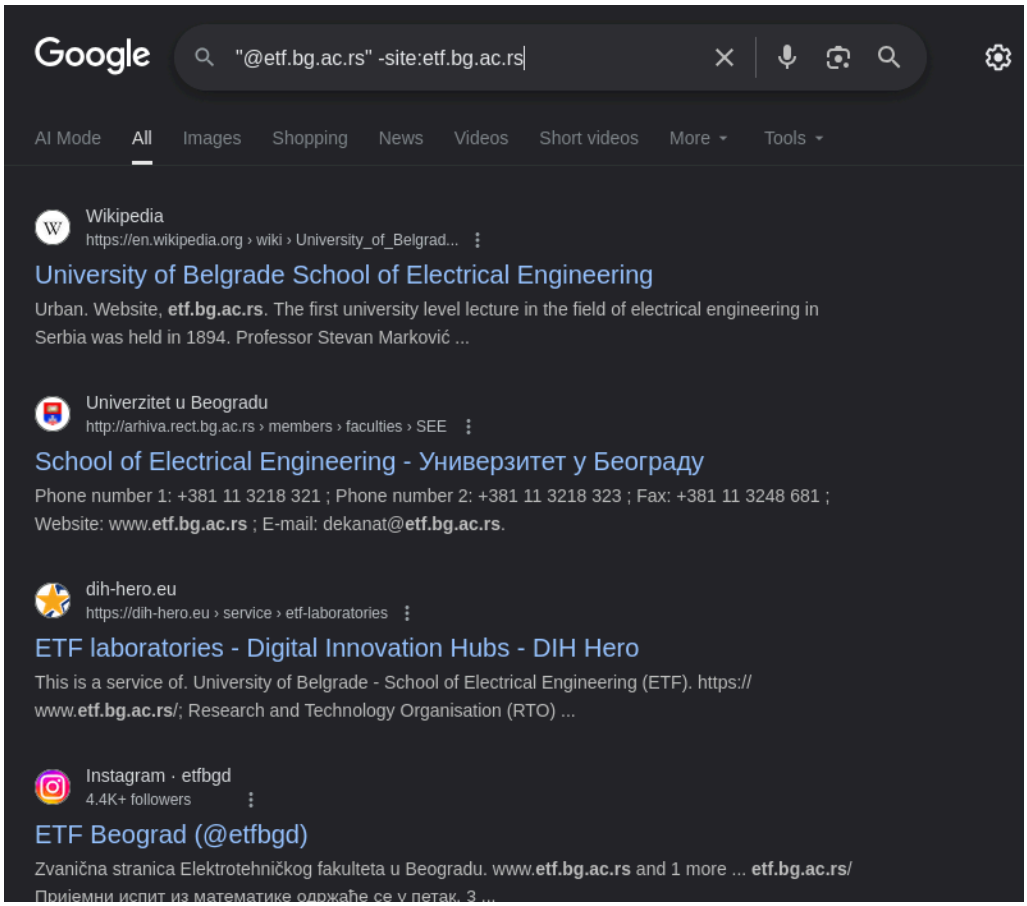
8. Email Harvesting & Google Dorking

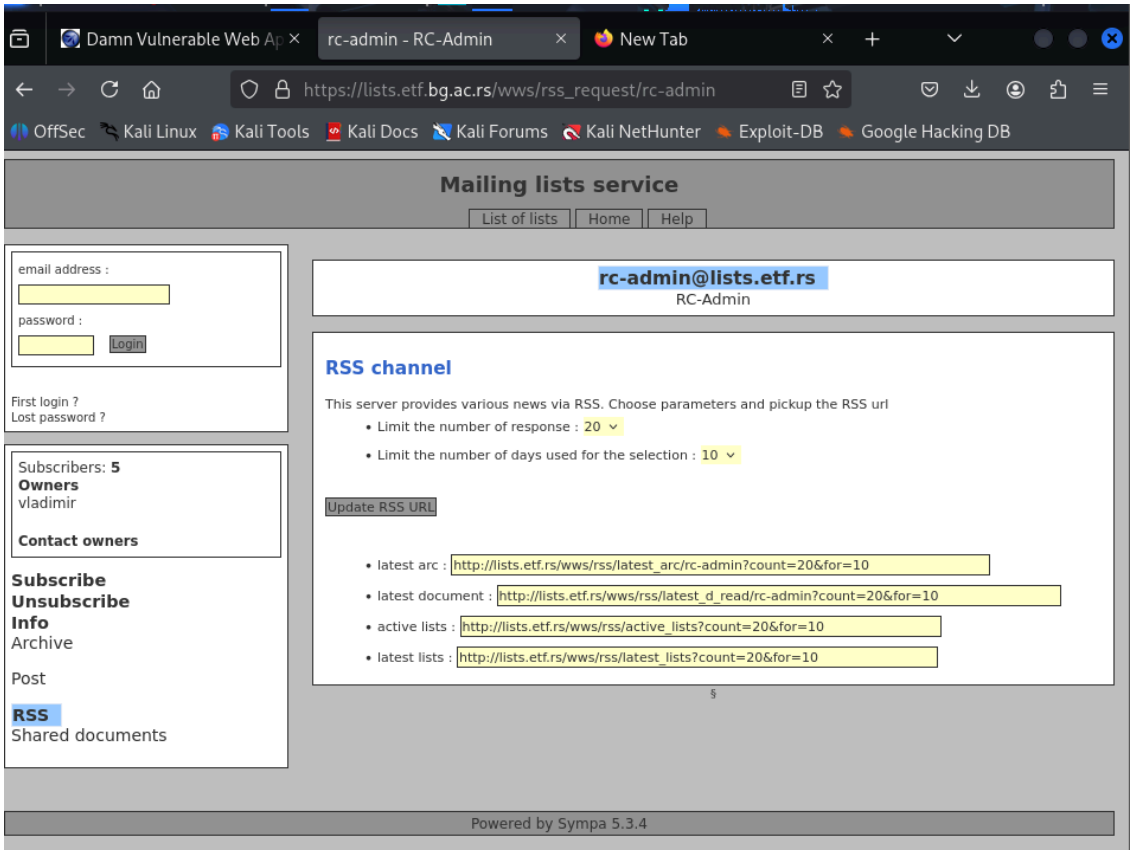
Tools / methods: Google dorks, simple searches, theHarvester (optional).

Example Google dork used: `site:lists.etf.bg.ac.rs "rc-admin"`

Findings: Public mailing list pages and contact emails (e.g., `rc-admin@lists.etf.rs`) were found on example domains. This shows how public data can be harvested.


Mailing lists service
List of lists
Home
Help
email address :
password :
Login
First login ?
Lost password ?
Subscribers: 5
Owners
vladimir
Contact owners
Subscribe
Unsubscribe
Info
Archive
Post
RSS
Shared documents
rc-admin@lists.etf.rs
RC-Admin
RC-Admin mail list


Google
"@etf.bg.ac.rs" -site:etf.bg.ac.rs
AI Mode
All
Images
Shopping
News
Videos
Short videos
More
Tools
Wikipedia
https://en.wikipedia.org › wiki › University_of_Belgrad...
University of Belgrade School of Electrical Engineering
Urban. Website, etf.bg.ac.rs. The first university level lecture in the field of electrical engineering in Serbia was held in 1894. Professor Stevan Marković ...
Univerzitet u Beogradu
http://arhiva.rect.bg.ac.rs › members › faculties › SEE
School of Electrical Engineering - Универзитет у Београду
Phone number 1: +381 11 3218 321 ; Phone number 2: +381 11 3218 323 ; Fax: +381 11 3248 681 ; Website: www.etf.bg.ac.rs ; E-mail: dekanat@etf.bg.ac.rs.
dih-hero.eu
https://dih-hero.eu › service › etf-laboratories
ETF laboratories - Digital Innovation Hubs - DIH Hero
This is a service of. University of Belgrade - School of Electrical Engineering (ETF). https://www.etf.bg.ac.rs/; Research and Technology Organisation (RTO) ...
Instagram · etfbgd
4.4K+ followers
ETF Beograd (@etfbgd)
Zvanična stranica Elektrotehničkog fakulteta u Beogradu. www.etf.bg.ac.rs and 1 more ... etf.bg.ac.rs/
Пријемни испит из математике одржаће се у петак, 3 ...



Conclusion

This information-gathering task collected domain, DNS, service, directory and publicly available contact data using safe, non-exploitative methods. The local VM intentionally exposes services and admin pages for learning; in real systems these should be restricted and patched. Follow the recommendations above to reduce the attack surface.