Penetration Testing

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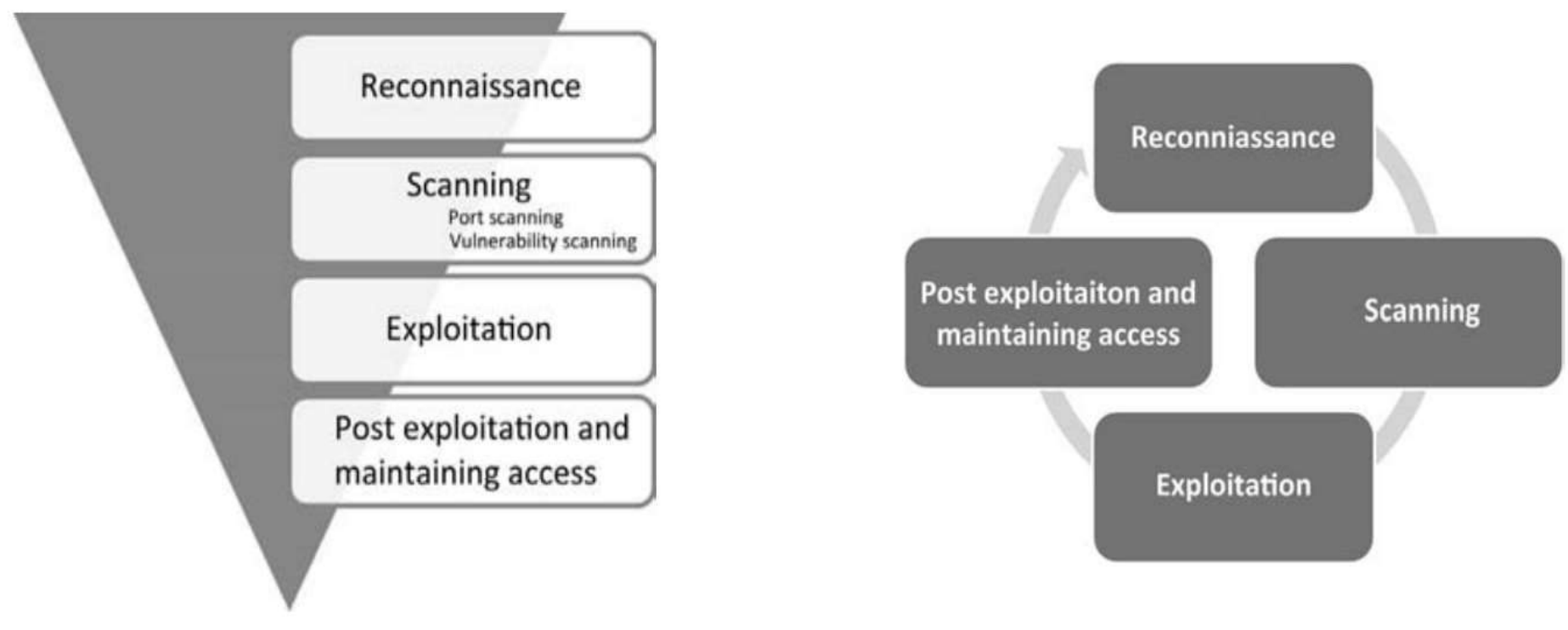
Penetration test



Phase 1: Reconnaissance

- Information:
- IP addresses/URLs
  - Used for scanning phase
- Operating Systems used; Technology deployed
- Security used
- Personal information
  - E-Mail Addresses
  - Usernames
  - Employees,
  - Roles,
  - Hobbies,
  - …
- everything

Questions on Theory

1.What are the phases in a Cyber attack?

Answer:

The typical phases involved in cyber attack are as below:

Phase 1: **Reconnaissance** –Figuring out capability targets that satisfy the undertaking of the attackers (e.g., economic benefit, centered access to sensitive information, emblem damage).

Phase-2 **Weaponization** - Decide what defenses are in location, they pick their weapon, whether it's a zero-day take advantage of, a spear-phishing marketing campaign, bribing a worker, or some different.

Phase 3: **Delivery** – Now the assault starts. Phishing e-mails are dispatched with weaponized attachment

Phase 4: **Exploitation**– The hacker use the user names and passwords arrive in previous phase

Phase 5:**Installation**–Attacker start set up a continual backdoor, create Admin accounts at the network, disable firewall policies to makes positive that they retain to have get entry to the community .

Phase 6: **Command & control**– The compromised device is then used as a beachhead into an agency. commonly, this involves the attacker downloading and installing a remote-access Trojan (RAT) so they can set up continual, long-term, remote get right of entry to for your environment.

Phase 7: **Action & objective**: Now Attacker have overall control, they are able to gain their objectives. This will be stealing information on employees, customers, product designs, etc.

2. Are there different models for structuring a cyber attack? If so, which ones?

Answer:

Different models for structuring a cyber attack are as below

1. Attack graph approach
2. Attack tree approach
3. Cyber kill chain modelling approach
4. Diamond model
5. simulation approach model

Attack tree Model

Attacker Tree model is ordinary approach for modelling cyber assaults. Cyber attack is represented in the shape of a tree. The attack tree constitutes a cyber attack situation by using constructing the final cyber attack goal as the root and sub-goals as leaves. In attack model based on an attacker's purpose was proposed to determine the role of an individual intrusion detection system (IDS) in a distributed IDS environment.

3. Why are different models used?

Answer:

The purpose of each cyber attack is different, that's why different models are used to serve different purposes.

The attack graph method is a technique of graphing all feasible paths that an attacker can assault by way of using data of hosts in a network.

The attack tree technique use tree concept constitutes a cyber assault scenario by means of building the final cyber attack goal as the root and sub-goals as leaves

The cyber kill chain is derived from the conventional military term—kill chain. A kill chain is a non-stop method from detecting a goal to destroying it.

The cyber analysis modeling evaluation tool provides a simulation toolkit to evaluate the threat and decorate the resiliency of cyber assaults

The diamond model is a novel version for cyber intrusion analysis. The version incorporates four primary additives: adversary, infrastructure, capability, and victim, all of which might be related in a diamond shape. Diamond-shaped nodes represent one assault event.

4. What is the approximate time horizon of a cyber attack?

Answer: Cyber attack is a practice to gain unauthorized access of smart device with the intent to cause harm. Sometimes cyber attack is also done for purpose to steal sensitive data / Information.

Many Sources find that during COVID-19 pandemic China also launches cyber attacks against India for secret of corona vaccine. In Oct2020 China launch 40,000+ times cyber attack in just 5 days. So, there is no fixed time horizon for cyber attack. However, Execute cyber attack frequently basis with different methods is best time frame.

5. What information sources can be used for a cyber attack? Can you give examples?

Answer:

A cyber attack is an attempt to avail unauthorized access to a computer/Laptop or smart phone with the intent to cause harm. Below sources can be used for cyber attack

* Need Credential of system to attempt credential-based attack

* Required Malware to attack information System. spyware and Trojans are best examples of malware.

* Information about System IP address and MAC Address

* MitM(Man- in-the-Middle) to attempt eavesdropping attacks

* Unsecure public Wi-Fi

* Structured Query Language (SQL) injection to execute SQL injection attacks.

* Information about DNS protocol

* Fraudulent communications through mail to steal sensitive data known as phishing

example: Texas ransomware attacks (August 2019)

WannaCry(May2017)

6. How could the information collected be categorized?

Answer:

The information is classified in 4 major component

1. **Victim**: What is the profile of the person being attacked? Is the victim information being attacked publicly available (e.g., via the Internet)?

2.**Capability**: Did the attacker use any Malware? Did the attacker use a recognised hacking device

3. **Infrastructure**: Information about IP Address and Domain Name

4.**Adversary**: Information about physical infrastructure (hardware, operating system, Software version)

7. Explain the term OSINT.

Answer:

OSINT, stands on open-source intelligence, is the exercise of collecting data from published or in any other case publicly available assets. OSINT operations, whether practiced by IT security professionals, malicious hackers, or country-sanctioned intelligence operatives, use advanced strategies to search through the giant haystack of visible information to discover the needles they're seeking out to obtain their goals and learn statistics that many don't understand is public.

Example: Maltego, Recon-ng, theHarvester, SpiderFoot, Babel X

Donald Trump

- Donald John Trump
- June 14 1946 (74 years old)
- New York
- Nationality:
- Education:

Family

- Father: Fred Trump
- Mother: Mary Anne MacLeod

Everyone is now saying how right I was with illegal immigration & the wall. After Paris, they're all on the bandwagon.

— Donald J. Trump (@realDonaldTrump) November 19, 2015

Donald J. Trump @realDonaldTrump · 8m
We don't want what is happening with immigration in Europe to happen with us!
3.0K 2.7K 9.1K
Donald J. Trump @realDonaldTrump · 10m
Search documents and filenames for text
The people of Germany are turning against their leadership as migration is rocking the already tenuous Berlin coalition. Crime in Germany is way up. Big mistake made all over Europe in allowing millions of people in who have so strongly and violently changed their culture!
3.0K 3.1K 9.8K

Family

- Wife: Melania Knauss

- 5 children:

Donald Jr., Ivanka, Eric, Tiffany, Barron

- Residence:

c/o Mar-a-Lago, 1100 S. Ocean Boulevard, Palm Beach, Florida

Financial

- Estimated $2 Billion
  - Commercial Real Estate $1.2 billion
  - Residential Real Estate $148 million
  - Hospitality $38 million
  - Hotel Licensing and Management $42 million
  - Golf Courses $217 million
  - Other Properties $295 million
  - Cash $160 million

Facts

- Germaphobe
- Doesn’t drink alcohol
- WWE Fan
- Likes to play Golf
- Only sleeps 4 hours a night
- Went to military school when he was 13

Donald J. Trump
@realDonaldTrump
North Korean Leader Kim Jong Un just stated that the “Nuclear Button is on his desk at all times.” Will someone from his depleted and food starved regime please inform him that I too have a Nuclear Button, but it is a much bigger & more powerful one than his, and my Button works!

Donald J. Trump
@realDonaldTrump
Follow
It's freezing and snowing in New York--we need global warming!
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2.4K

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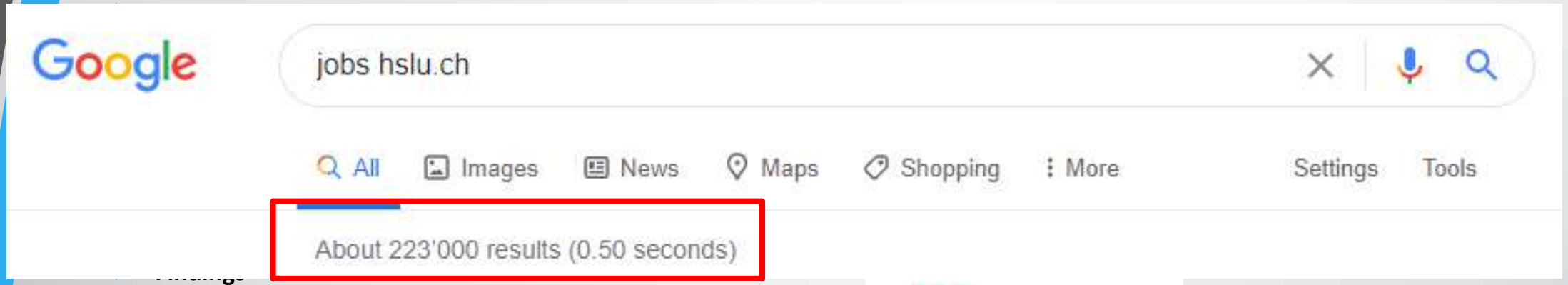

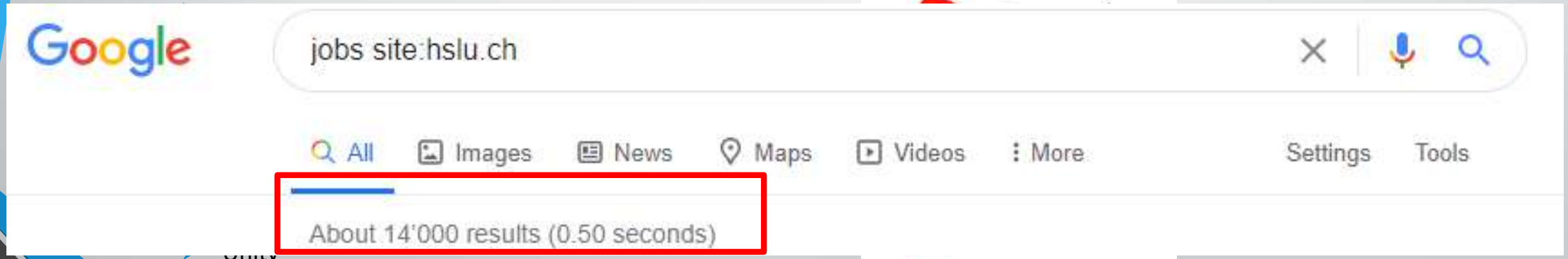

- C# oder C++
- JavaScript und Python

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- Category: College & University
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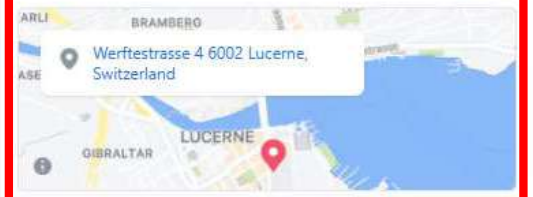

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99+

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The Lucerne University of Applied Sciences and Arts fulfils its mandate in the four areas of education, continuing and executive education, applied research and development, and services. The bachelor's and master's degree programmes follow the requirements of business, culture and civil society and prepare students for the needs of the job market. Ambitious professionals can choose from a wide range of continuing and executive education courses.
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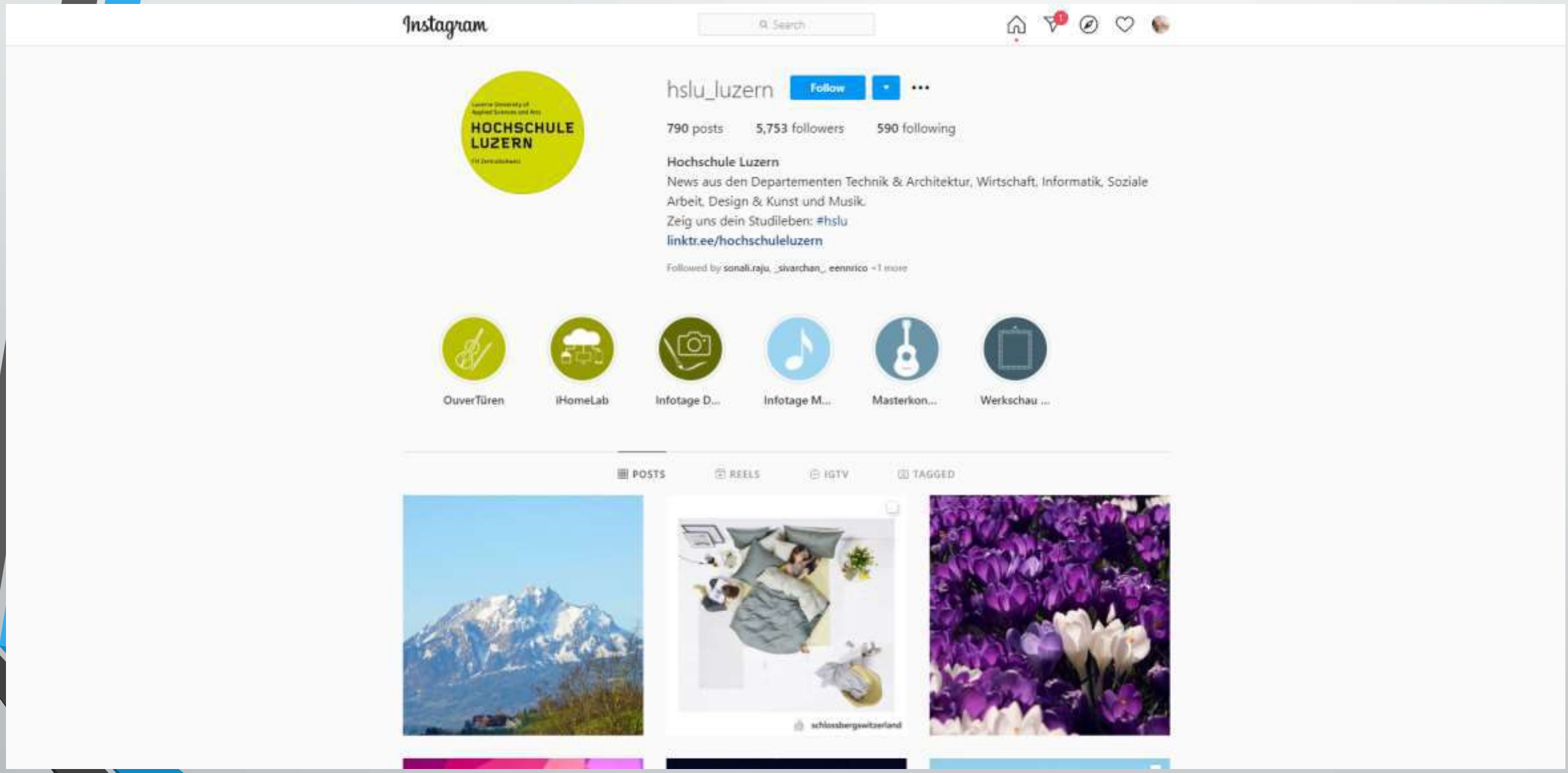
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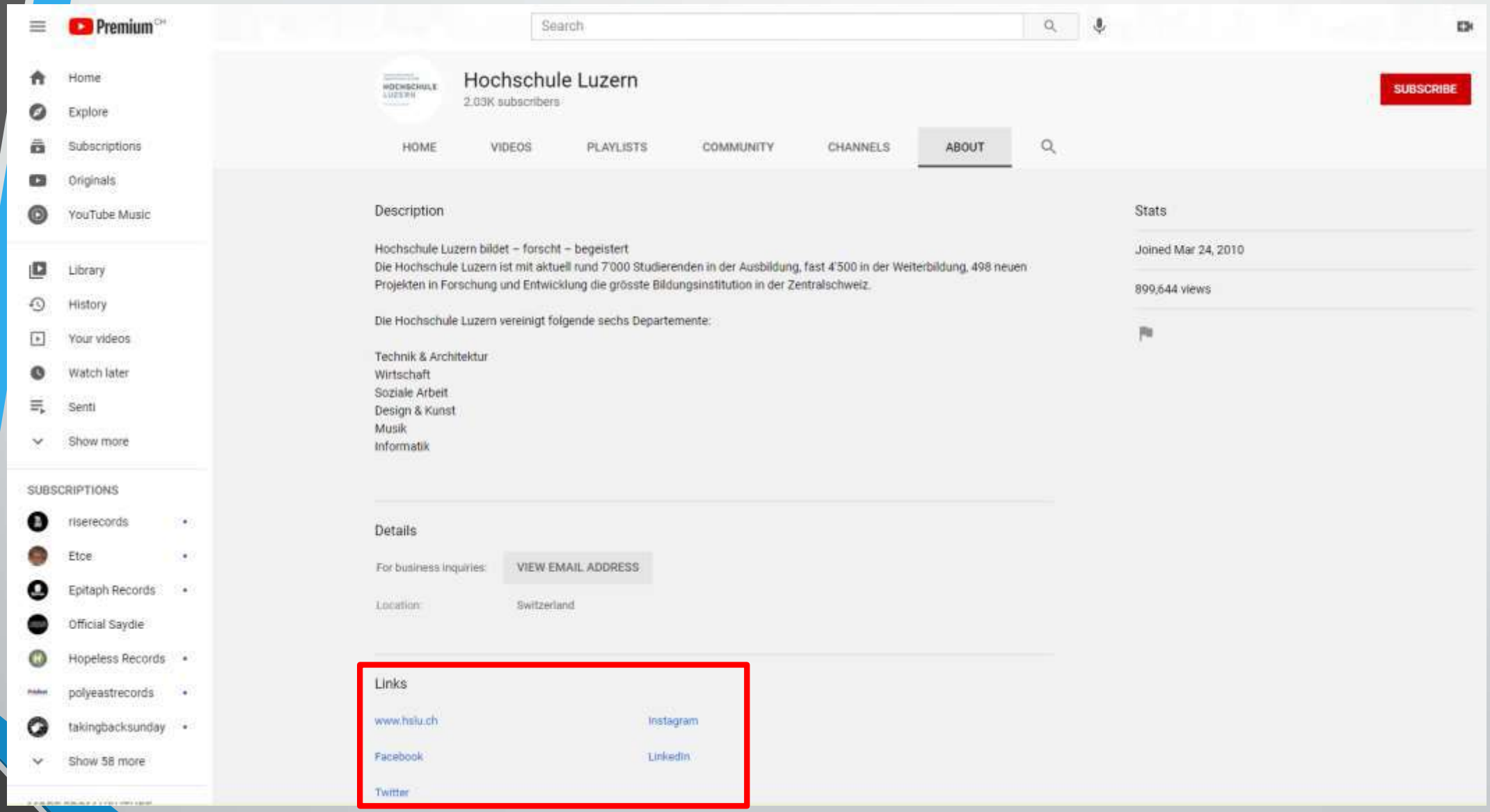
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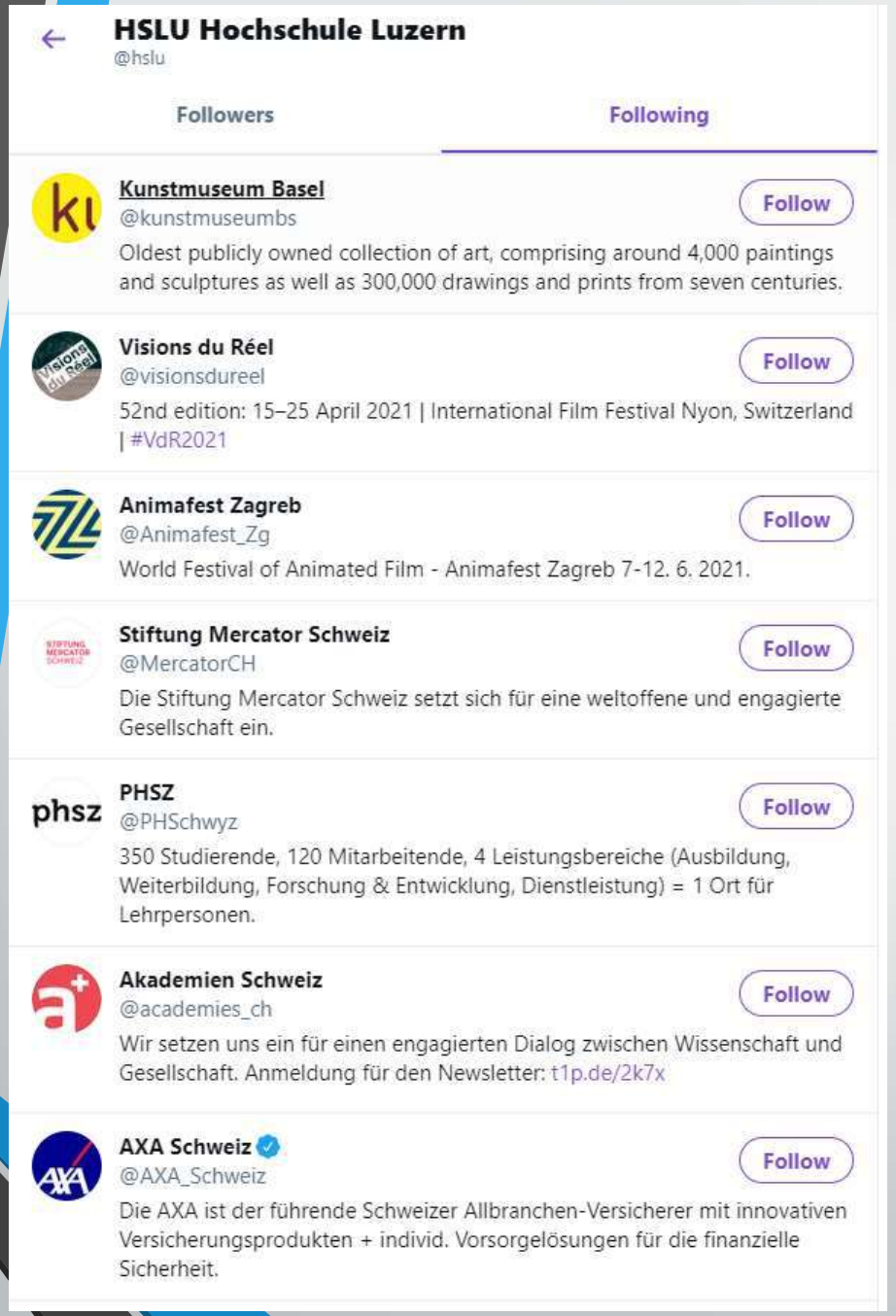
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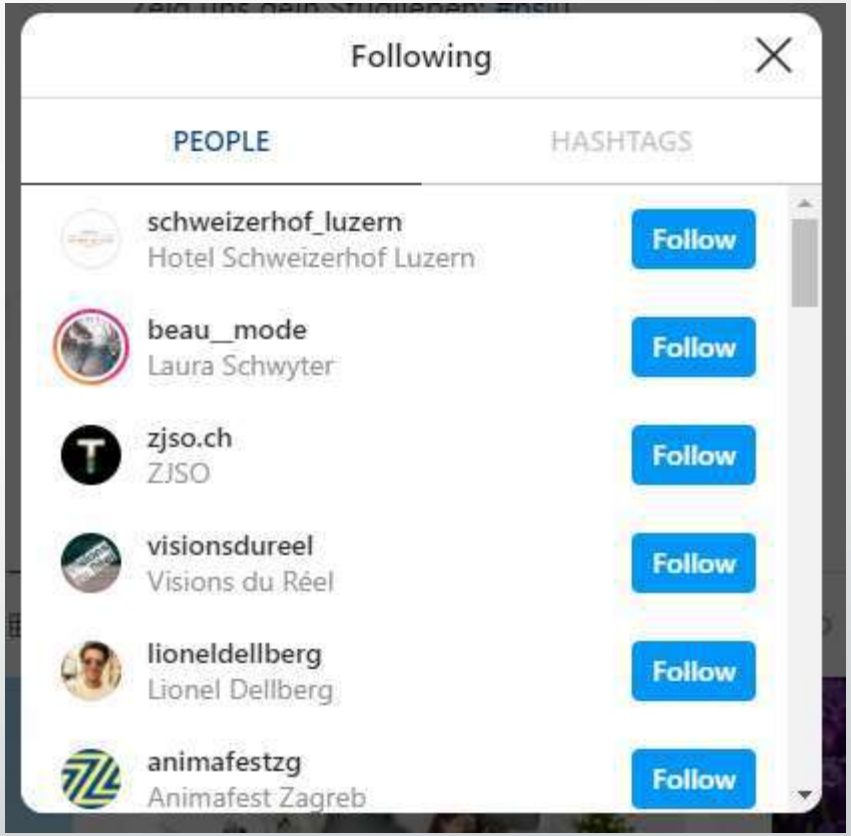
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Technical analysis of the HSLU

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OPENSOURCE

- Fingerprinting Organizations with Collected Archives
- FOCA Tool is a tool used mainly to find metadata and hidden information in the documents it scans.

- Information we got:
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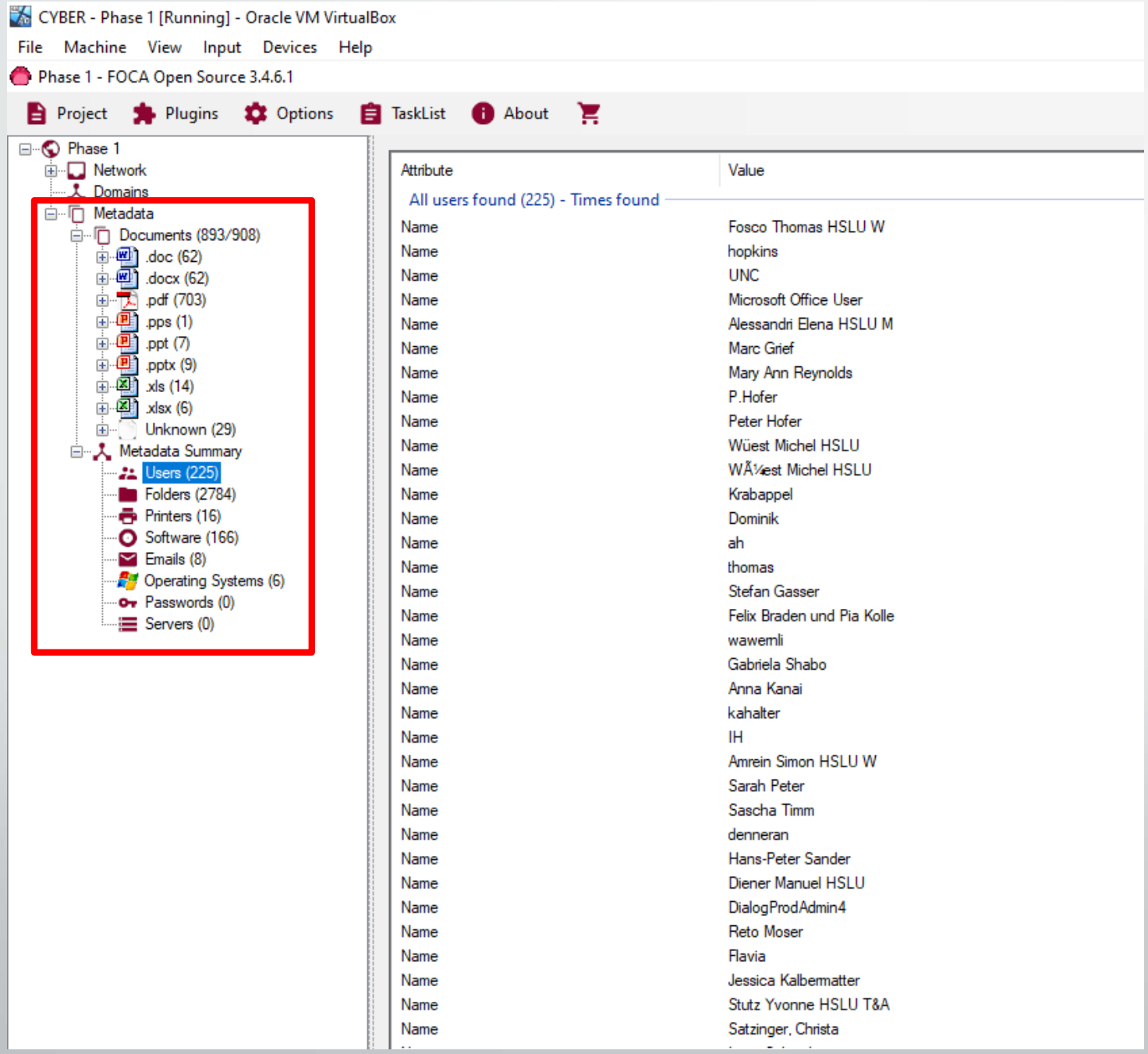
    - Users
    - Folders
    - Printers
    - Software
    - Emails
    - OS
  - Network
    - Servers
      - Ip address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Phase 1 - FOCA Open Source 3.4.6.1
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Metadata
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.docx (62)
.pdf (703)
.pps (1)
.ppt (7)
.pptx (9)
.xls (14)
.xlsx (6)
Unknown (29)
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Users (225)
Folders (2784)
Printers (16)
Software (166)
Emails (8)
Operating Systems (6)
Passwords (0)
Servers (0)
Attribute
Value
All users found (225) - Times found
Name Fosco Thomas HSLU W
Name hopkins
Name UNC
Name Microsoft Office User
Name Alessandri Elena HSLU M
Name Marc Grief
Name Mary Ann Reynolds
Name P.Hofer
Name Peter Hofer
Name Wüest Michel HSLU
Name WÃ¼est Michel HSLU
Name Krabappel
Name Dominik
Name ah
Name thomas
Name Stefan Gasser
Name Felix Braden und Pia Kolle
Name wawernli
Name Gabriela Shabo
Name Anna Kanai
Name kahalter
Name IH
Name Amrein Simon HSLU W
Name Sarah Peter
Name Sascha Timm
Name denneran
Name Hans-Peter Sander
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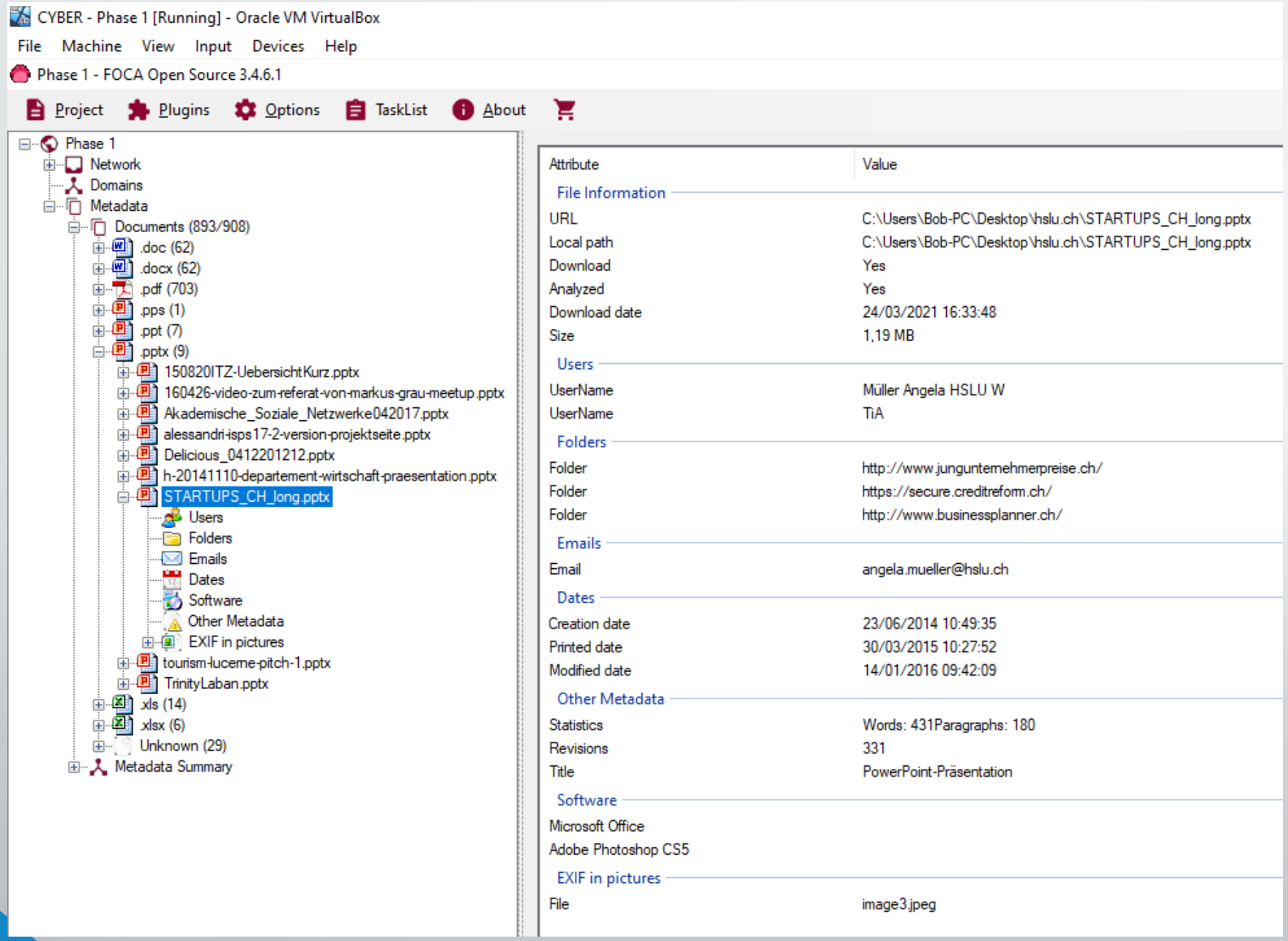
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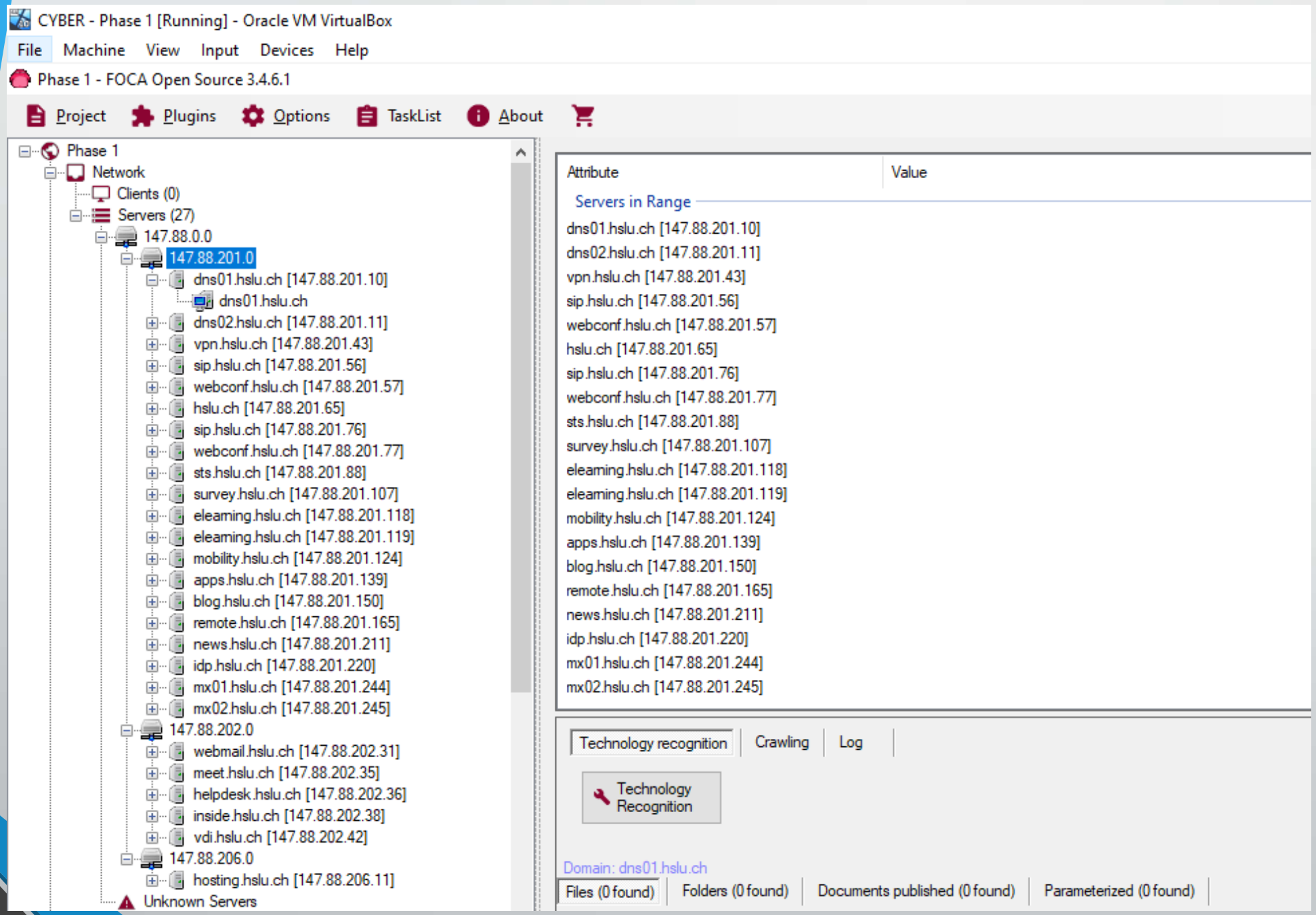
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mobility.hslu.ch [147.88.201.124]
apps.hslu.ch [147.88.201.139]
blog.hslu.ch [147.88.201.150]
remote.hslu.ch [147.88.201.165]
news.hslu.ch [147.88.201.211]
idp.hslu.ch [147.88.201.220]
mx01.hslu.ch [147.88.201.244]
mx02.hslu.ch [147.88.201.245]
147.88.202.0
webmail.hslu.ch [147.88.202.31]
meet.hslu.ch [147.88.202.35]
helpdesk.hslu.ch [147.88.202.36]
inside.hslu.ch [147.88.202.38]
vdi.hslu.ch [147.88.202.42]
147.88.206.0
hosting.hslu.ch [147.88.206.11]
Unknown Servers
Attribute
Value
Servers in Range
dns01.hslu.ch [147.88.201.10]
dns02.hslu.ch [147.88.201.11]
vpn.hslu.ch [147.88.201.43]
sip.hslu.ch [147.88.201.56]
webconf.hslu.ch [147.88.201.57]
hslu.ch [147.88.201.65]
sip.hslu.ch [147.88.201.76]
webconf.hslu.ch [147.88.201.77]
sts.hslu.ch [147.88.201.88]
survey.hslu.ch [147.88.201.107]
elearning.hslu.ch [147.88.201.118]
elearning.hslu.ch [147.88.201.119]
mobility.hslu.ch [147.88.201.124]
apps.hslu.ch [147.88.201.139]
blog.hslu.ch [147.88.201.150]
remote.hslu.ch [147.88.201.165]
news.hslu.ch [147.88.201.211]
idp.hslu.ch [147.88.201.220]
mx01.hslu.ch [147.88.201.244]
mx02.hslu.ch [147.88.201.245]
Technology recognition
Crawling
Log
Technology Recognition
Domain: dns01.hslu.ch
Files (0 found)
Folders (0 found)
Documents published (0 found)
Parameterized (0 found)

Shodan.io

- is a search engine that lets the user find specific types of computers (webcams, routers, servers, etc.) connected to the internet using a variety of filters.

- Information we got:
  - Services
  - Ip address
  - Protocol versions
  - Technologies
  - Certificate
  - ISP

Shodan | Developers | Monitor | View All... | Show API Key | Try out the new beta website! | Help Center

SHODAN hslu.ch

Explore | Downloads | Reports | Pricing | Enterprise Access | My Account

Exploits | Maps | Share Search | Download Results | Create Report

TOTAL RESULTS

11

TOP COUNTRIES

Switzerland	10
France	1

TOP SERVICES

SMTP	3
DNS	2
HTTP	2
HTTPS	2
SMTP + SSL	1

TOP ORGANIZATIONS

Hochschule Luzern	9
OVH SAS	1
Swiss Education a...	1

TOP PRODUCTS

Apache httpd	2
Barracuda Networ...	2
Postfix smtpd	2

New Service: Keep track of what you have connected to the Internet. Check out Shodan Monitor

147.88.206.11

hosting.hslu.ch
Hochschule Luzern
Added on 2021-03-23 10:04:19 GMT
Switzerland, Luzern

none
Resolver name: ws14.hslu.ch

147.88.206.12

hosting02.hslu.ch
Hochschule Luzern
Added on 2021-03-23 20:56:25 GMT
Switzerland, Luzern

none
Resolver name: ws14.hslu.ch

302 Found

176.31.107.119
hydraovh.insign.ch
OVH SAS
Added on 2021-03-16 22:36:21 GMT
France, Mont-de-Marsan

```
HTTP/1.1 302 Found
Date: Tue, 16 Mar 2021 22:36:20 GMT
Server: Apache/2.2.31 (FreeBSD) PHP/5.3.28 with Suhosin-Patch mod_ssl/2.2.31 OpenSSL/1.0.2g DAV/2
Location: https://www.praxismarkt-hslu.ch/
Content-Length: 363
Content-Type: text/html; charset=iso-8859-1
```

301 Moved Permanently

147.88.201.98
pasta-hslu.ch
Hochschule Luzern
Added on 2021-03-24 14:33:03 GMT
Switzerland, Luzern

```
HTTP/1.1 301 Moved Permanently
Date: Wed, 24 Mar 2021 14:33:00 GMT
Server: Apache
Location: https://pasta-hslu.ch/
Content-Length: 293
Content-Type: text/html; charset=iso-8859-1
```

147.88.201.211

Hochschule Luzern
Added on 2021-03-17 01:20:40 GMT
Switzerland, Luzern

self-signed

SSL Certificate

Issued By:
|- Common Name: Plesk
|- Organization: Plesk
Issued To:
|- Common Name: Plesk
|- Organization: Plesk

Supported SSL Versions
TLSv1.1, TLSv1.2

Shodan | Developers | Monitor | View All... | Show API Key | Try out the new beta website! | Help Center

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Explore | Downloads | Reports | Pricing | Enterprise Access | My Account

147.88.201.211

View Raw Data

self-signed | starttls

City	Luzern
Country	Switzerland
Organization	Hochschule Luzern
ISP	SWITCH
Last Update	2021-03-23T08:27:49.556505
ASN	AS559

Vulnerabilities

Note: the device may not be impacted by all of these issues. The vulnerabilities are implied based on the software and version.

CVE-2018-15919	Remotely observable behaviour in auth-gss2.c in OpenSSH through 7.8 could be used by remote attackers to detect existence of users on a target system when GSS2 is in use. NOTE: the discoverer states 'We understand that the OpenSSH developers do not want to treat such a username enumeration (or "oracle") as a vulnerability.'
CVE-2017-15906	The process_open function in sftp-server.c in OpenSSH before 7.6 does not properly prevent write operations in readonly mode, which allows attackers to create zero-length files.

Ports

22 | 25 | 53 | 80 | 443 | 465 | 993 | 995

Services

22 / tcp / ssh — **OpenSSH** Version: 7.4

```
SSH-2.0-OpenSSH_7.4
```

25 / tcp / smtp — **Postfix smtpd**

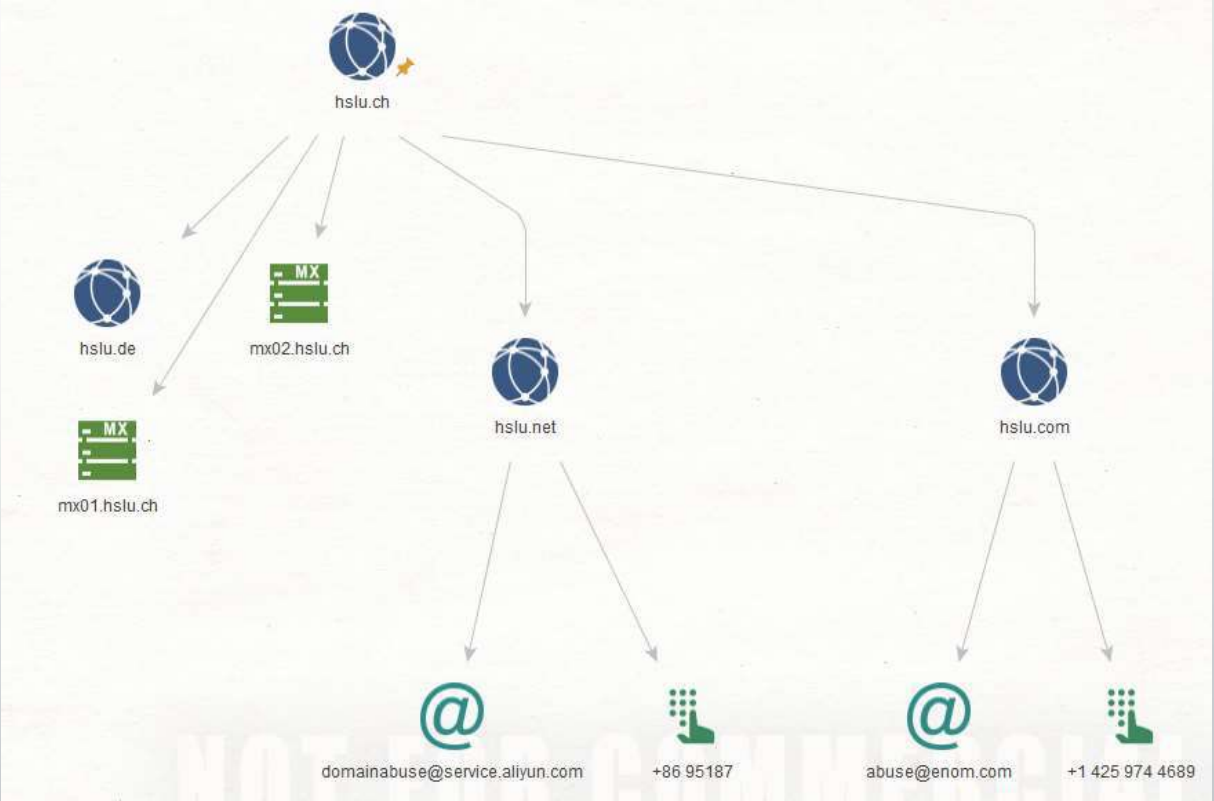
```
220 ws170.hslu.ch ESMTP Postfix
250-ws170.hslu.ch
250-PIPELINING
250-SIZE 10240000
250-ETRN
250-STARTTLS
250-AUTH DIGEST-MD5 CRAM-MD5 PLAIN LOGIN
250-ENHANCEDSTATUSCODES
250-8BITMIME
250-DSN
250-SMTPUTF8
250 CHUNKING
```

SSL Certificate

```
Certificate:
    Data:
```

Maltego CE

- information is now searched for and displayed in graphical form



Thank you