



YOUR DIGITAL JOURNEY

For a smarter, safer and more sustainable society

Cybersecurity | Intelligent Robotics | Digital Skills

eDIH4.Society

UTCN

Laboratoare implicate eDIH4Society

**Hub-ul European de Inovație Digitală pentru
Societate**

**valorificăm tehnologii disruptive în ecosistemul regional:
securitate cibernetică, robotică inteligentă, transformare digitală**

Lista facilităților puse la dispoziție de către Laborator

1. Mașini virtuale de învățare și exersare a tehnicilor de pentesting
2. Mașini virtuale cu unelte de testare a vulnerabilităților
3. Mașini virtuale cu unelte de scanare a proiectelor software (cod sursă), pentru detecția vulnerabilităților

Connect to the Virtual Private Network of HackNet

```
(root@kali) [~/Attack/tvsi/c2]
└─$ openvpn hacknet.ovpn
2022-02-11 07:26:31 WARNING: Compression for receiving enabled. Compression
not compressed unless "allow-compression yes" is also set.
2022-02-11 07:26:31 DEPRECATED OPTION: --cipher set to 'AES-256-CBC' but mis
N version will ignore --cipher for cipher negotiations. Add 'AES-256-CBC' to
ers-fallback 'AES-256-CBC' to silence this warning.
2022-02-11 07:26:31 OpenVPN 2.5.1 x86_64-pc-linux-gnu [SSL (OpenSSL)] [LZO]
2022-02-11 07:26:31 library versions: OpenSSL 1.1.1l 24 Aug 2021, LZO 2.10
└─$ Enter Private Key Password: *****
```

Connect to a Linux VM

```
(root@kali) [~/Attack/tvsi/labs]
└─$ mpd 10.200.102.12
Starting Map 2.01 (https://open.org) at 2022-02-11 07:28 EST
Nmap scan report for 10.200.102.12:
Host is up (0.039s latency).
PORT STATE SERVICE
22/tcp open  ssh
Nmap done: 1 IP address (1 host up) scanned in 0.27 seconds
└─$ ssh root@10.200.102.12
The authenticity of host '10.200.102.12 (10.200.102.12)' can't be established.
RSA key fingerprint is SHA256:8Qm8t8u8W8C8L8u8v8e8g8f8L8O8u8p8t8H8r8J8B8k8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.200.102.12' (rsa) to the list of known hosts.
linux@10.200.102.12's password:
Linux linux@10.200.102.12: 2.0.20-16-server #1 SMP Thu Apr 10 21:58:00 UTC 2008 i686
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
linux@10.200.102.12:~$ whoami
service
```

Access the virtual machine (VM) Web-interface of HackNet

HackNet: pentesting network

Virtual machines

Starting a VM will stop all others.

IP Address	Status	Action
10.200.102.11	stopped	Revert
10.200.102.110	stopped	Revert
10.200.102.111	stopped	Revert
10.200.102.112	stopped	Revert
10.200.102.12	stopped	Revert
10.200.102.140	stopped	Revert
10.200.102.20	running	Revert
10.200.102.22	stopped	Revert
10.200.102.27	stopped	Revert
10.200.102.58	stopped	Revert
10.200.102.6	running	Revert

root@kali: ~/Attack/tvsi/exam

```
└─$ rdesktop -u io -p 'io' -g 75% 10.200.102.20
Autoselecting keyboard map 'en-us' from locale
Clipboard(error): xclip_handle_SelectionNotify(), unal
```

Connect to a Windows VM and Debug

```
root@kali:~/Attack/tvsi/labs> mpd 10.200.102.20
Starting Map 2.01 (https://open.org) at 2022-02-11 07:30 EST
Nmap scan report for 10.200.102.20:
Host is up (0.039s latency).
PORT STATE SERVICE
22/tcp open  ssh
Nmap done: 1 IP address (1 host up) scanned in 0.27 seconds
└─$ ssh root@10.200.102.20
The authenticity of host '10.200.102.20 (10.200.102.20)' can't be established.
RSA key fingerprint is SHA256:8Qm8t8u8W8C8L8u8v8e8g8f8L8O8u8p8t8H8r8J8B8k8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.200.102.20' (rsa) to the list of known hosts.
linux@10.200.102.20's password:
Linux linux@10.200.102.20: 2.0.20-16-server #1 SMP Thu Apr 10 21:58:00 UTC 2008 i686
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
linux@10.200.102.20:~$ whoami
service
```

Servicii de instruire în utilizarea facilităților din Laborator

1. Acces și utilizare a mașinilor virtuale din laboratorul virtual
2. Acces și utilizare a mașinilor virtuale cu unelte de pentesting
3. Acces și utilizare a mașinilor virtuale de analiză a codului sursă cu unelte automatizate
4. Cursuri de securitate cibernetică

Partenerii

eDIH4.Society

® **CLUJ** IT



EDIH



Co-funded by
the European Union