

LAB: scanning

Lab Environment

The workshop WiFi:

- SSID: `workshop`
- PASS: `iiij/2497`

Hosts - Virtual machines (Ubuntu 18.04LTS/LXC)

- Hostname: `nsXX.workshop`
- IPv6: `fd00:2497:1::X`
- IPv4: `10.0.0.X`

Where `X` and `XX` is your group ID. For group 1, hostname is `ns01.workshop`, IPv6 address is `fd00:2497:1::1`, and IPv4 is `10.0.0.1`.

Install Nmap

`ssh` to your virtual server and install the Nmap software.

```
$ sudo apt install nmap
```

Scan one host

Scan a specific node by specifying its IP address.

```
$ sudo nmap IP_ADDRESS
```

Scan yourself

Scan your local node to check what kind of services you are using.

```
$ sudo nmap IP_OF_YOUR_NOTEBOOK
```

OS detection

Try to guess the operating system of the scan target.

```
$ sudo nmap -O IP_ADDRESS
```