# Instalare Eve-NG pe Windows
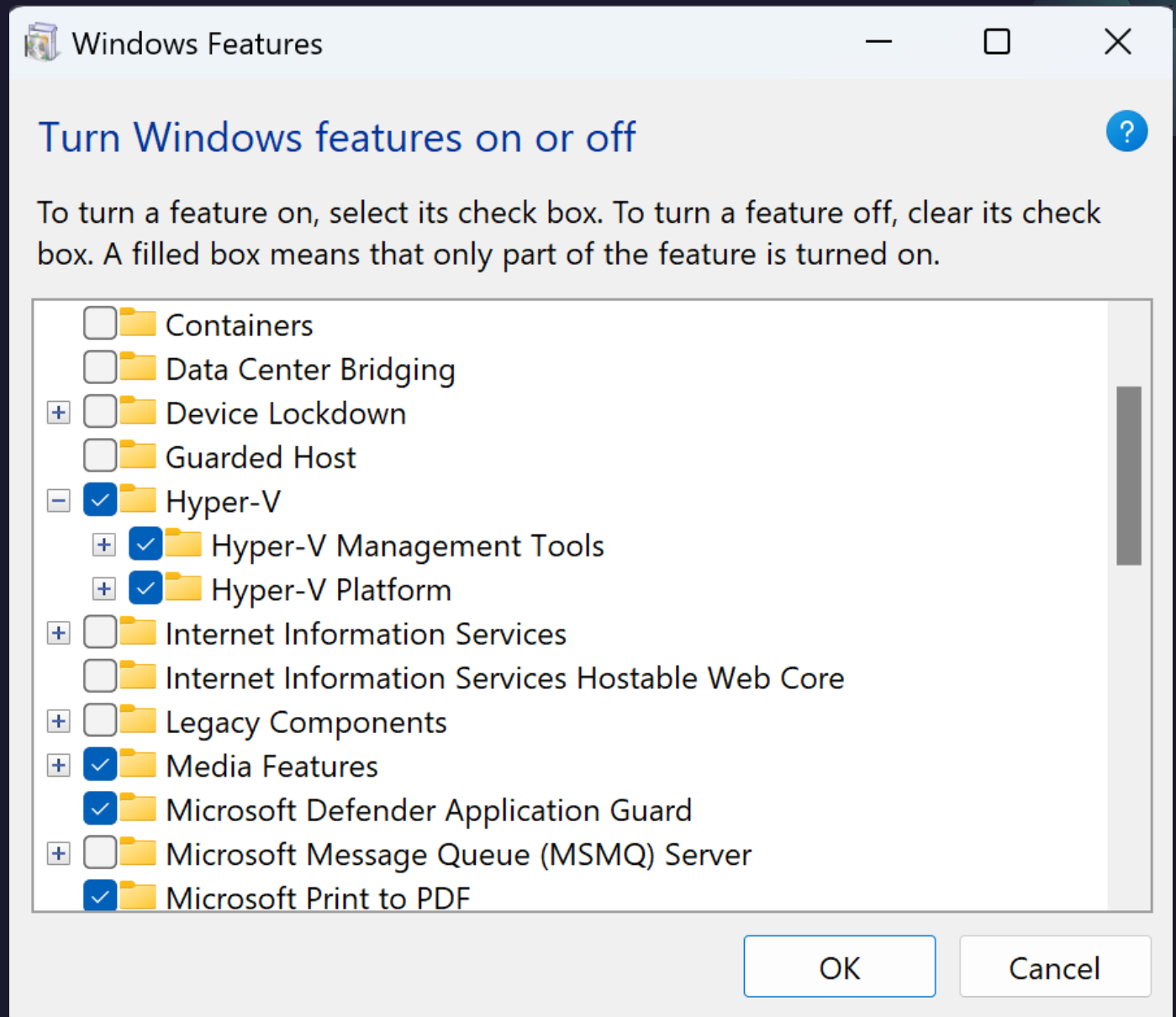
Presenter Name

# Instalarea pe Hyper-V

- Pentru instalarea pe Hyper-V este nevoie de o licenta windows 10/11 pro.

- Incepem prin a activa Hyper-V din "Turn on Windows features on or off"

- Dam restart atunci cand cere si apoi descarcam imaginea iso de pe site.

Download - (eve-ng.net)

## Windows Features

### Turn Windows features on or off

To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.

- [ ] Containers
- [ ] Data Center Bridging
- [+] [ ] Device Lockdown
- [ ] Guarded Host
- [-] [x] Hyper-V
  - [+] [x] Hyper-V Management Tools
  - [+] [x] Hyper-V Platform
- [+] [ ] Internet Information Services
- [ ] Internet Information Services Hostable Web Core
- [+] [ ] Legacy Components
- [+] [x] Media Features
- [x] Microsoft Defender Application Guard
- [+] [ ] Microsoft Message Queue (MSMQ) Server
- [x] Microsoft Print to PDF

OK    Cancel

# Adaugam Masina Virtuala

- Deschidem Hyper-V Manager si adaugam o masina virtuala

- Alegem prima generatie, alocam un minim 4GB de memorie in urmatorul ecran
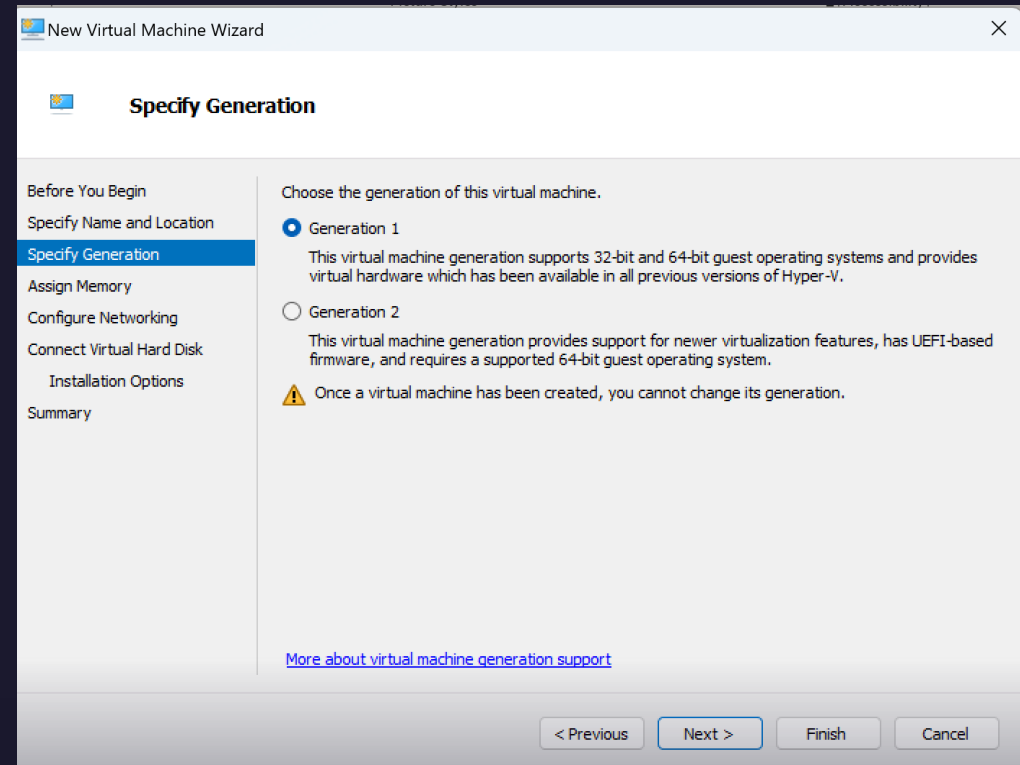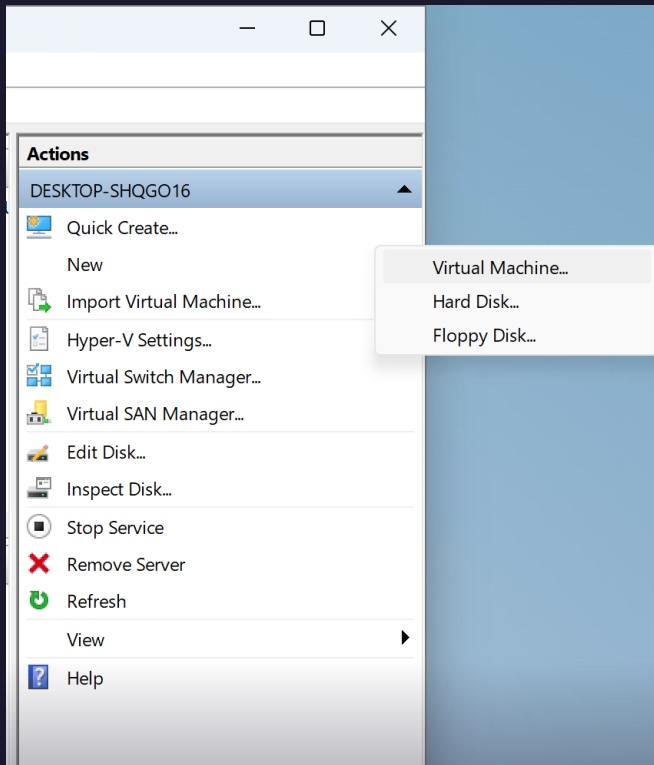
# Adaugam Masina Virtuala

- La networking putem seta default switch

- Setarile de virtual disk se pot lasa default

- Iar la Installation Options bifam instalarea de pe CD/DVD-ROM si image file.

- Apoi selectam imaginea de unde a fost salvata anterior.
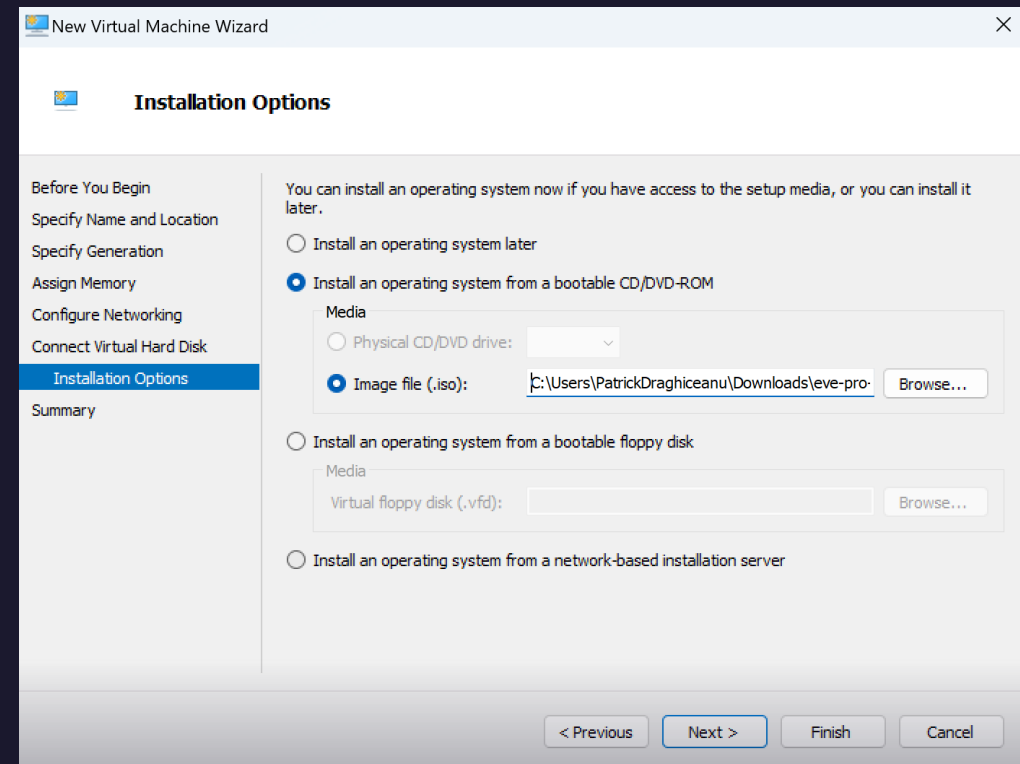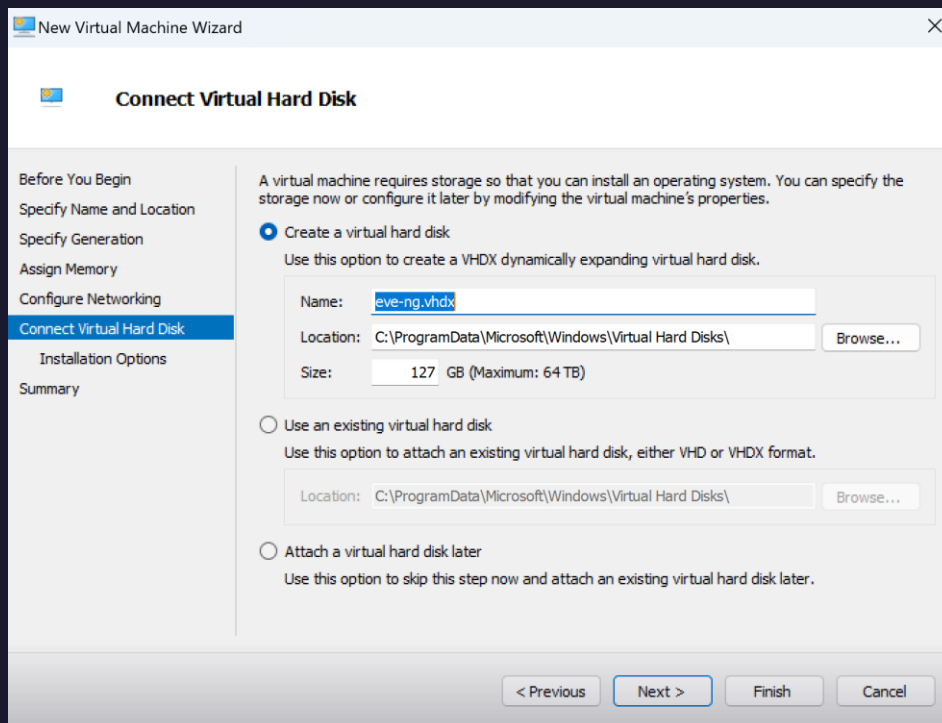
# Activarea Virtualizarii Nested

- In setarile masinii la interfata de retea activam MAC address spoofing

- Fie care folosim Hyper-V sau alt sistem de vritualizare, aceasta masina are nevoie de virtualizare nested pentru a putea face la randul ei masini virtuale.

- Deschidem powershell ca Administrator si rulam comanda

- "Set-VMProcessor -VMName "nume masina virtuala" -ExposeVirtualizationExtensions $true "

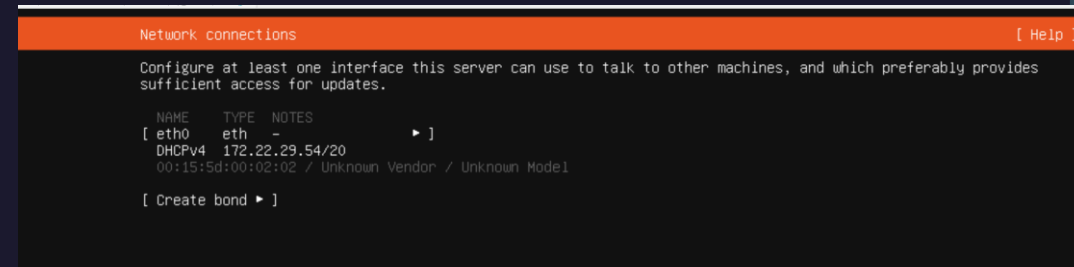- Si putem porni vm-ul pentru a incepe instalarea.
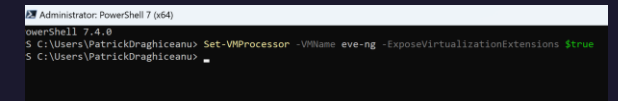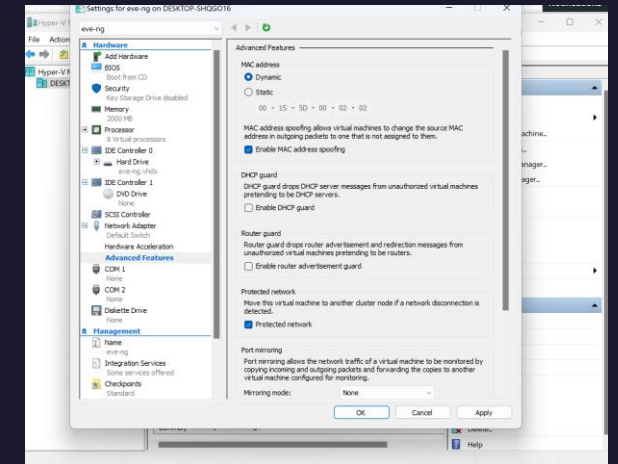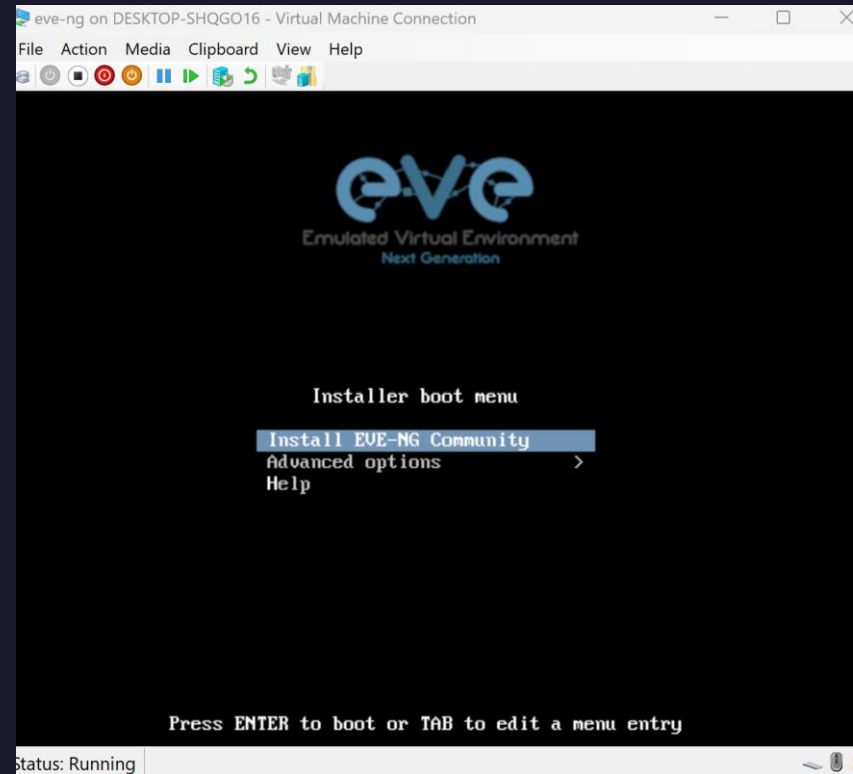
# Instalarea Eve-NG



Pastram toate valoride default inclusiv la partea de networking

Si lasam sa ruleze scripturile inclusive dupa ce dam restart pana cand pe prompt vedem link-ul de interfata web.

Daca acesta nu apare inseamna ca virtualizarea nu a fost activata pe masina.

# Instalarea Eve-NG

```
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.

root@eve-ng:~#
```
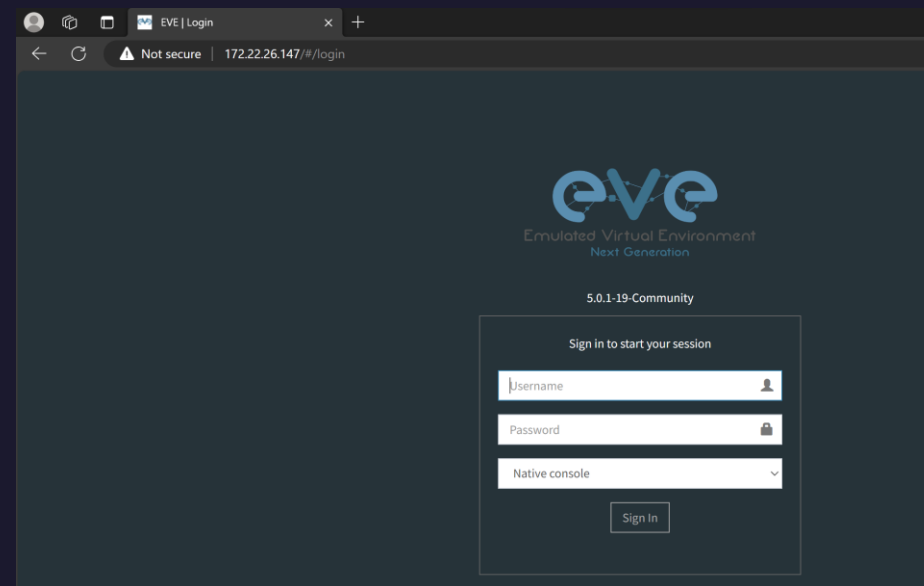
Ne logam in system cu userul 'root' si parola 'eve' , schimbam parola, validam setarile cerute si avem acces root.

In interfara web ne putem loga cu userul 'admin' si parola 'eve'

# Adaugarea sistemului Mikrotik CHR in Eve-NG



Cloud Hosted Router

| Images | 6.49.10 Long-term | 6.49.12 Stable | 7.13.3 Stable | 7.14be |
|---|---|---|---|---|
| Images | vmdk, vhdx, vdi, ova, img | | | |
| Main package | 💾 | 💾 | 💾 | 💾 |
| VHDX image | 💾 | 💾 | 💾 | 💾 |
| VMDK image | 💾 | 💾 | 💾 | 💾 |
| VDI image | 💾 | 💾 | 💾 | 💾 |
| VirtualPC image | 💾 | 💾 | 💾 | 💾 |
| OVA template | 💾 | 💾 | 💾 | 💾 |
| Raw disk image | 💾 | 💾 | 💾 | 💾 |
| Extra packages | 💾 | 💾 | 💾 | 💾 |
| The Dude client | 💾 | 💾 | 💾 | 💾 |
| Changelog | 📋 | 📋 | 📋 | 📋 |
| Checksum | ☑ | ☑ | ☑ | ☑ |

- Ne logam prin ssh la server.

- Mergem pe server la calea: "/opt/unetlab/addons/qemu/"

- Facem un folder cu numele imagini ex: mikrotik-7.13.3

- Intam in folderul creat

- Intram si descarcam imagine de pe MikroTik Routers and Wireless – Software si in zona "Cloud Hosted Router" luam link-rul de la versiunea stabila ca Raw Disk Image

- Folosind comanda wget si atasand link-ul copiat descaram acolo imaginea arhivata

```
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# wget https://download.mikrotik.com/routeros/7.13.3/chr-7.13.3.img.zip
--2024-02-01 08:48:34--  https://download.mikrotik.com/routeros/7.13.3/chr-7.13.3.img.zip
Resolving download.mikrotik.com (download.mikrotik.com)... 159.148.147.204, 159.148.172.226, 2a02:610:7501:1000::204, ..
.
Connecting to download.mikrotik.com (download.mikrotik.com)|159.148.147.204|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 39199685 (37M) [application/zip]
Saving to: 'chr-7.13.3.img.zip'

chr-7.13.3.img.zip        100%[===========================================>]  37.38M  9.53MB/s    in 5.0s

2024-02-01 08:48:40 (7.42 MB/s) - 'chr-7.13.3.img.zip' saved [39199685/39199685]

root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# ls
chr-7.13.3.img.zip
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3#
```

```
root@eve-ng:~# cd /opt/unetlab/addons/qemu/
root@eve-ng:/opt/unetlab/addons/qemu# ^C
root@eve-ng:/opt/unetlab/addons/qemu# mkdir mikrotik-7.13.3
root@eve-ng:/opt/unetlab/addons/qemu# ls
mikrotik-7.13.3
root@eve-ng:/opt/unetlab/addons/qemu#
```
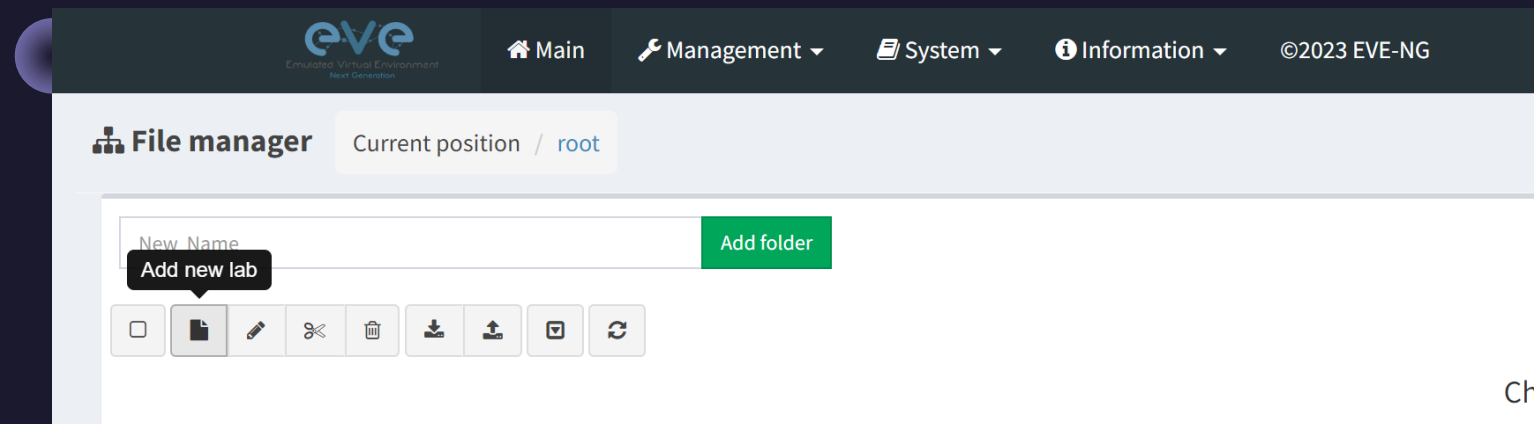
# Adaugarea sistemului Mikrotik CHR in Eve-NG

- Dezarhivam zip-ul folosind comanda unzip si numele fisierului.

- Stergem arhiva si redenumim imaginea in hda.qcow2

- Apoi rulam comanda:

- "/opt/unetlab/wrappers/unl_wrapper -a fixpermissions"

```
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# ls
chr-7.13.3.img.zip
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# unzip chr-7.13.3.img.zip
Archive:  chr-7.13.3.img.zip
  inflating: chr-7.13.3.img
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# ls
chr-7.13.3.img   chr-7.13.3.img.zip
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# rm chr-7.13.3.img.zip
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# mv chr-7.13.3.img hda.qcow2
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# ls
hda.qcow2
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3#
```
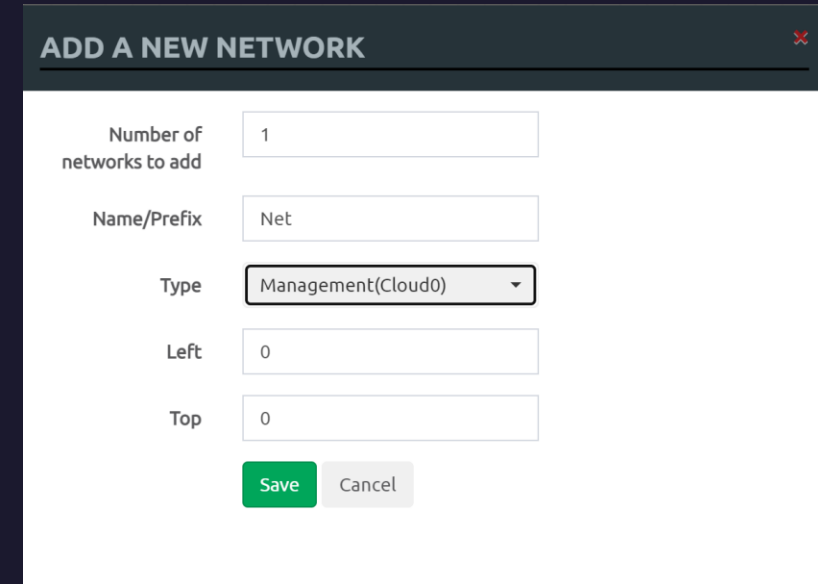
# Crearea primului Laborator
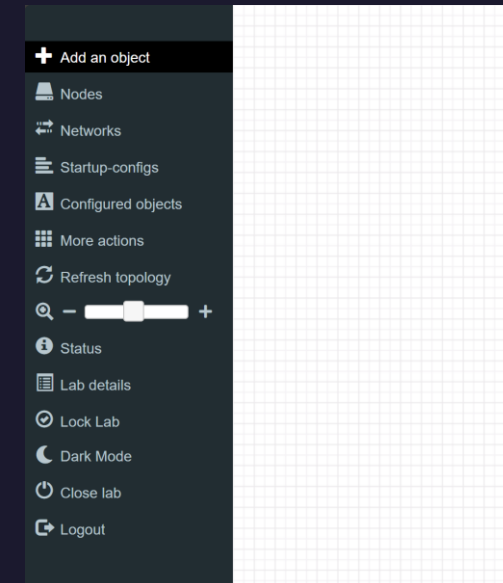
- Ne intaorcem in interfata web

- Si facem un laborator nou

# Crearea primului Laborator

Adaugam un Obiect nou de tip network Management (acesta va actiona ca gateway catre internet).

# Crearea primului Laborator

Apoi adaugam un nou obiect de tip node si cautam mikrotik

Legam cele doua noduri prin tragerea prizei de la unu la celalat
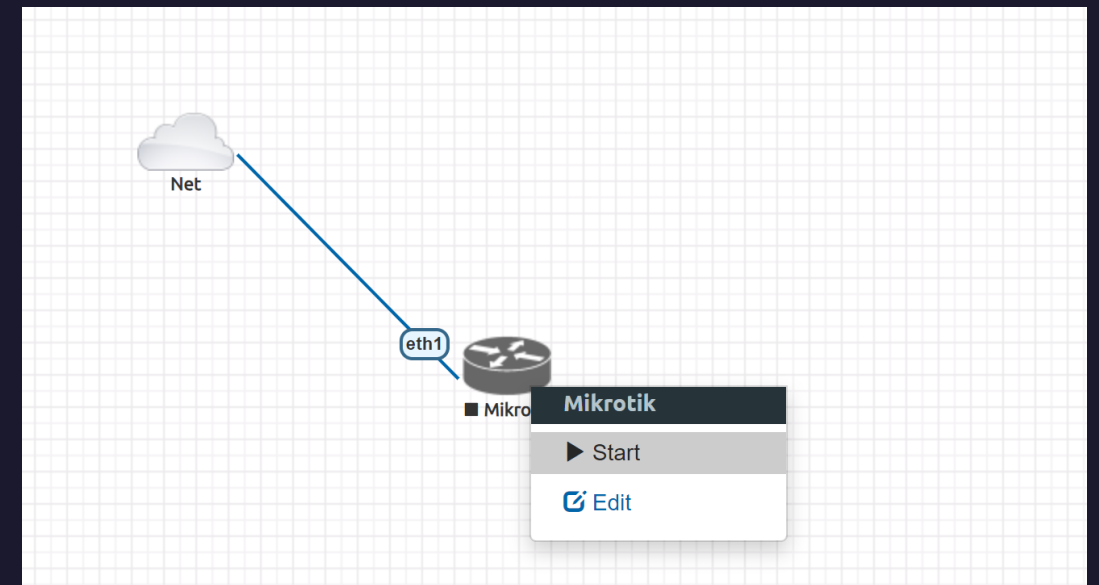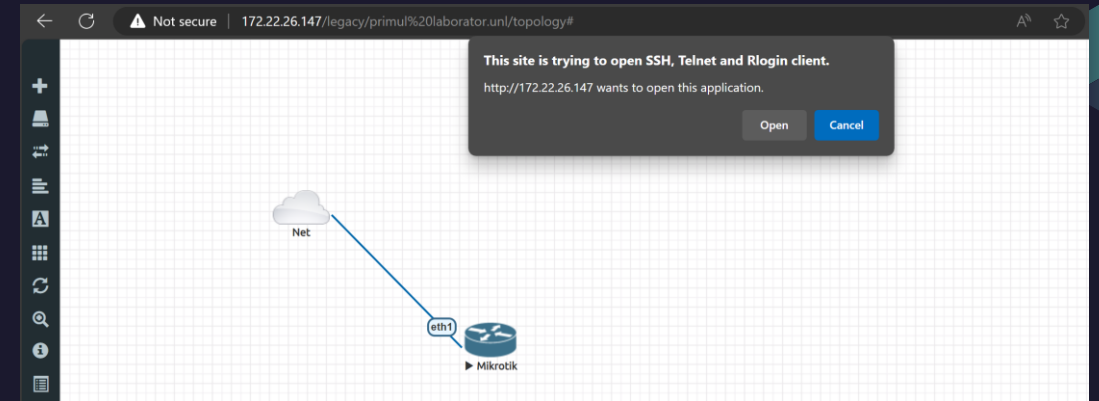
# Crearea primului Laborator

# Crearea primului Laborator



Pornim nodul

Descarcam si instalam pachetul client

Download - (eve-ng.net)
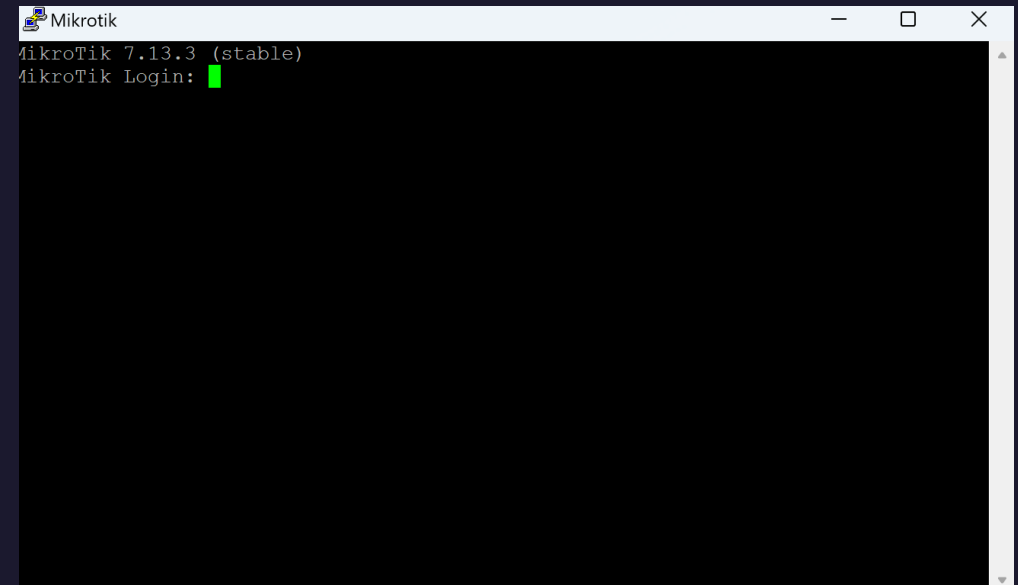
Pentru o comaptibilitate mai buna cu interfata web.

Si dand click pe nod apare un pop-up care cere sa deschida aplicatia pentru a se conecta la router.
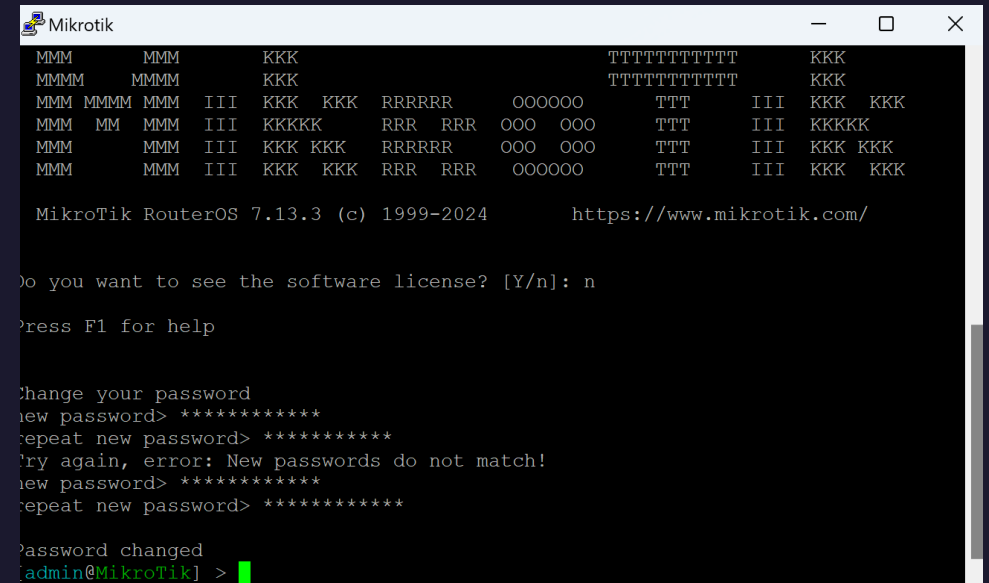
# Crearea primului Laborator

Acum apare o fereastra putty pentru a ne putea loga.

Logarea initala se face cu userul adnin si cu parola goala.

# Crearea primului Laborator

Facem o scurta verificare ca totul merge ok.

```
Change your password
new password> ************
repeat new password> ************

Password changed
[admin@MikroTik] >
certificate      ip          ppp          special-login      beep           ping
console          ipv6        queue        system             export         quit
disk             log         radius       task               import         redo
file             mpls        routing      tool               jobname        undo
interface        port        snmp         user               password
[admin@MikroTik] > ping 8.8.8.8
  SEQ HOST                                                SIZE TTL TIME        STATUS
    0 8.8.8.8                                             56  57 122ms921us
    1 8.8.8.8                                             56  57 93ms329us
    sent=2 received=2 packet-loss=0% min-rtt=93ms329us avg-rtt=108ms125us
  max-rtt=122ms921us


[admin@MikroTik] > /ip/address/print
Flags: D - DYNAMIC
Columns: ADDRESS, NETWORK, INTERFACE
#   ADDRESS            NETWORK        INTERFACE
0 D 172.22.29.40/20  172.22.16.0    ether1
[admin@MikroTik] > ping google.ro
  SEQ HOST                                                SIZE TTL TIME        STATUS
    0 142.250.180.227                                     56  57 32ms509us
    1 142.250.180.227                                     56  57 73ms503us
    sent=2 received=2 packet-loss=0% min-rtt=32ms509us avg-rtt=53ms6us
  max-rtt=73ms503us


[admin@MikroTik] >
```