



Instalare Eve-NG pe Windows

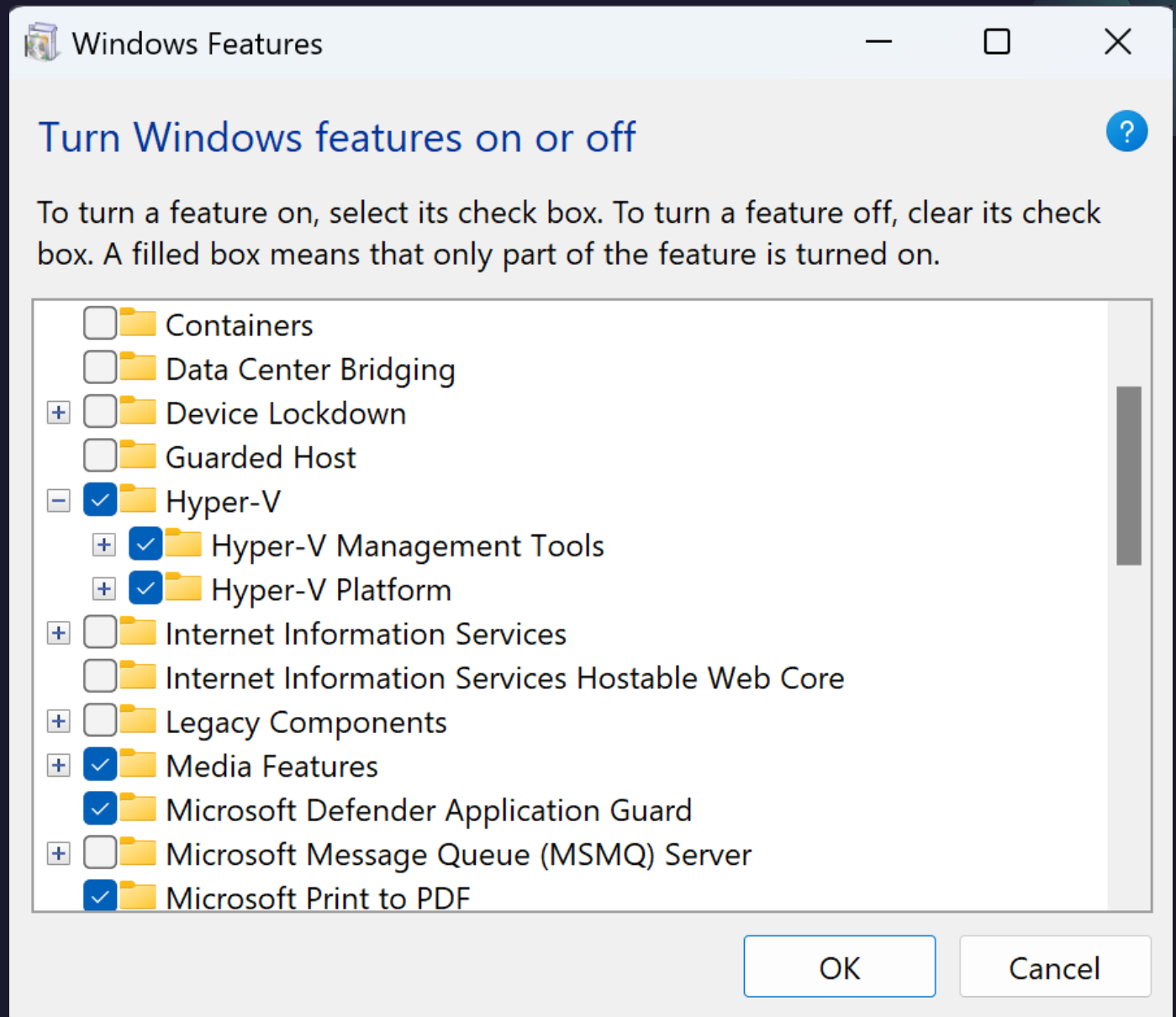
Presenter Name



Instalarea pe Hyper-V

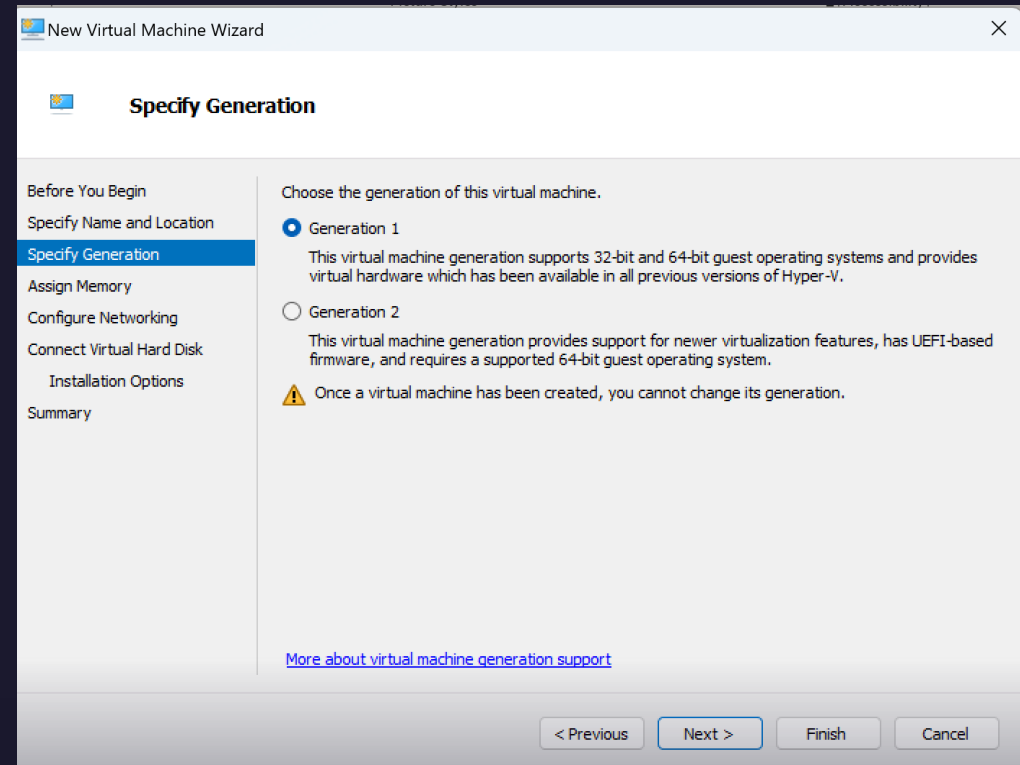
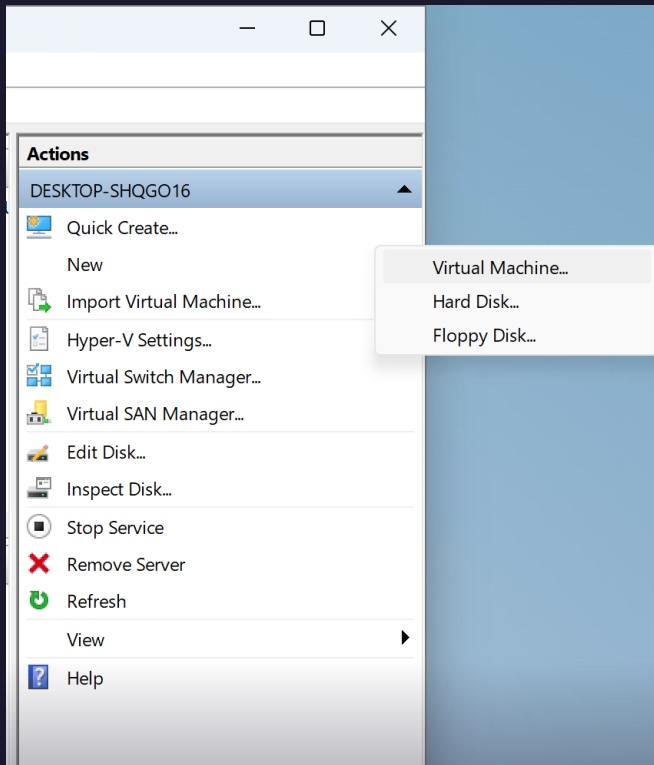
- Pentru instalarea pe Hyper-V este nevoie de o licenta windows 10/11 pro.
- Incepem prin a activa Hyper-V din “Turn on Windows features on or off”
- Dam restart atunci cand cere si apoi descarcam imaginea iso de pe site.

[Download - \(eve-ng.net\)](http://eve-ng.net)



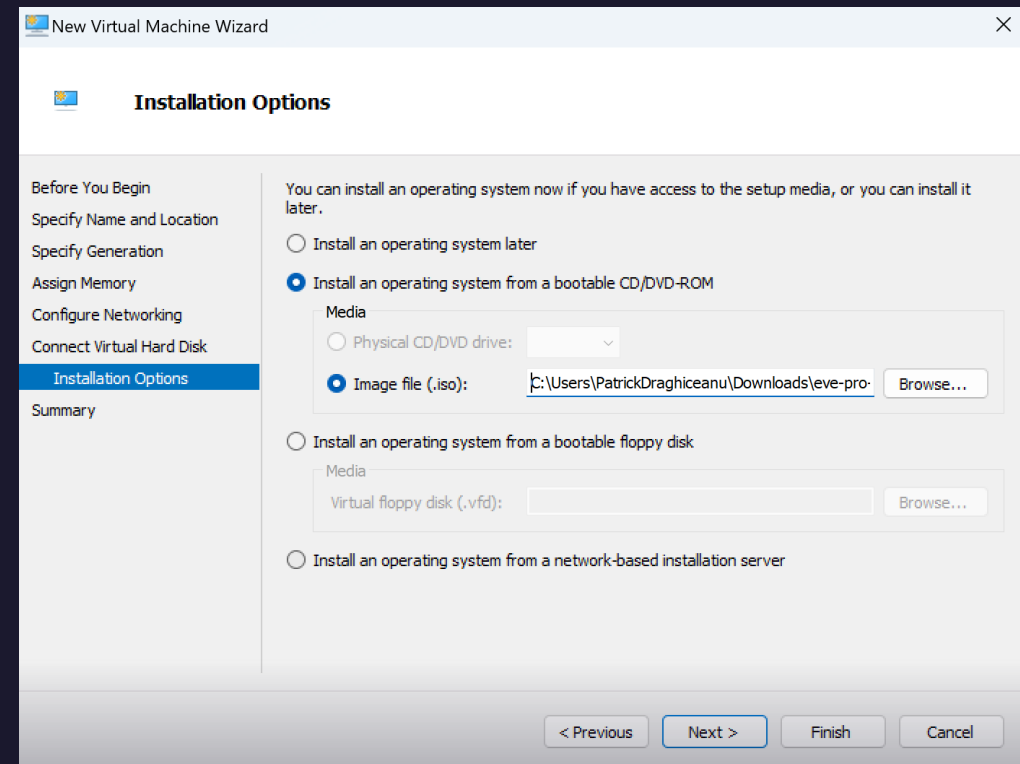
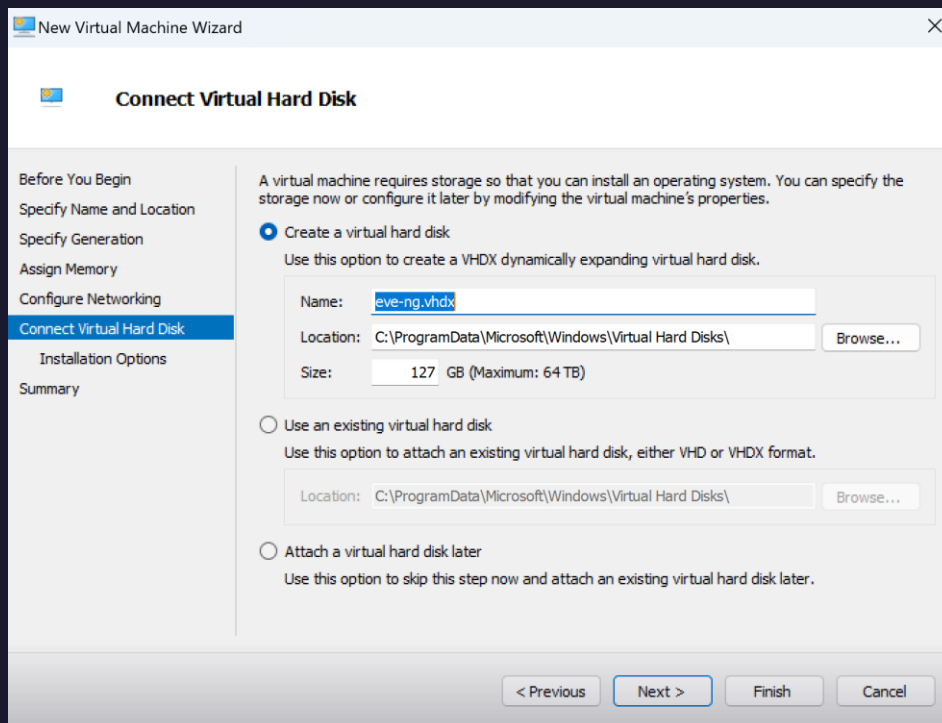
Adaugam Masina Virtuala

- Deschidem Hyper-V Manager si adaugam o masina virtuala
- Alegem prima generatie, alocam un minim 4GB de memorie in urmatorul ecran



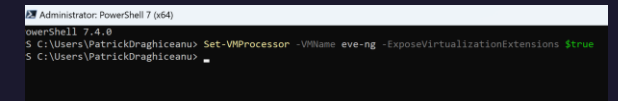
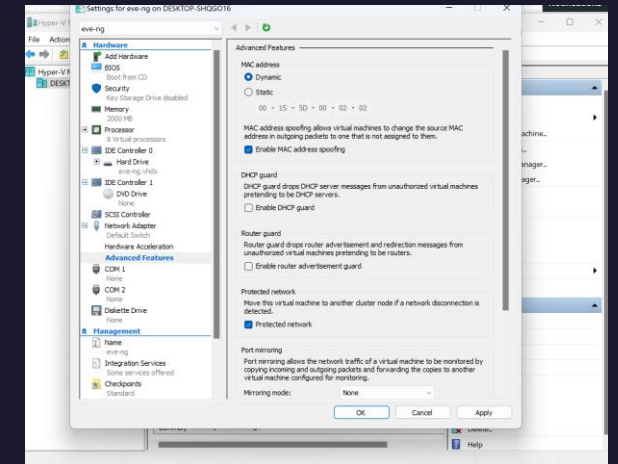
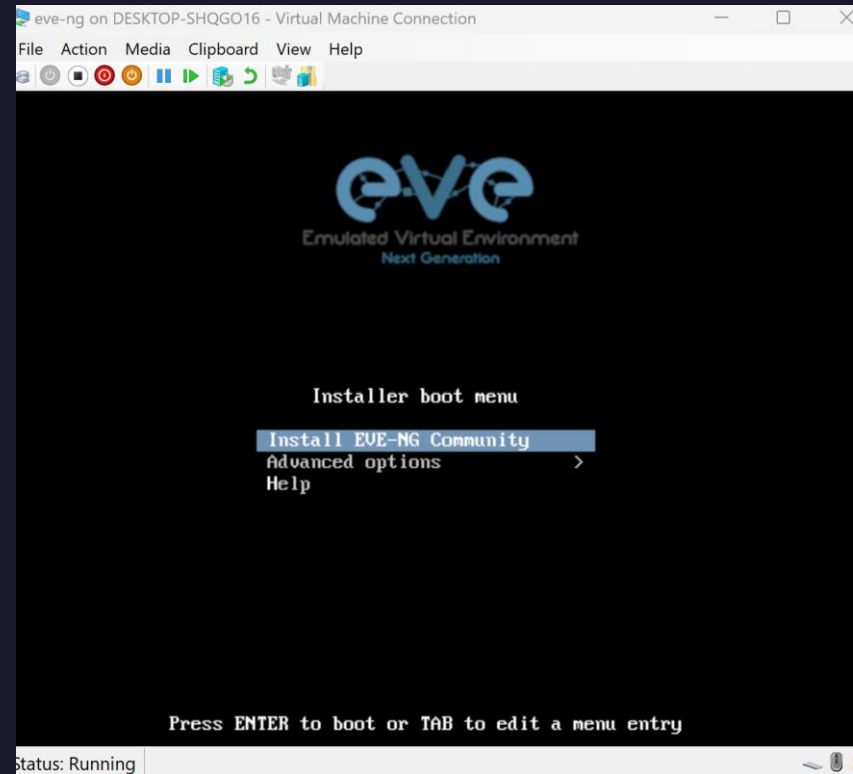
Adaugam Masina Virtuala

- 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 virtualizare, 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.

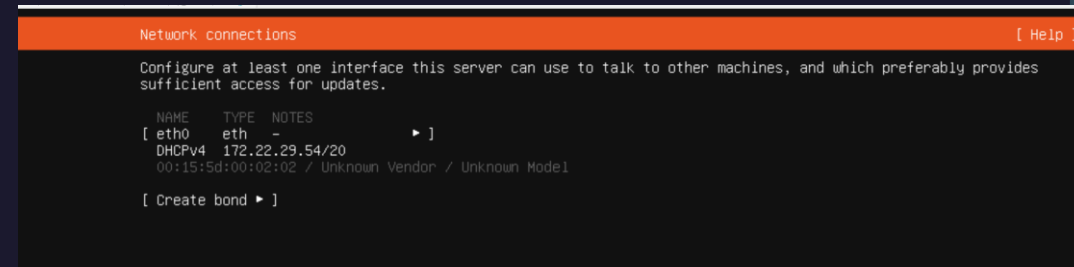


Instalarea Eve-NG

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.



```
Eve-NG (default root password is 'eve')
Use http://172.22.20.153(DHCP4)/
```

```
eve-ng login: s_
```

Instalarea Eve-NG

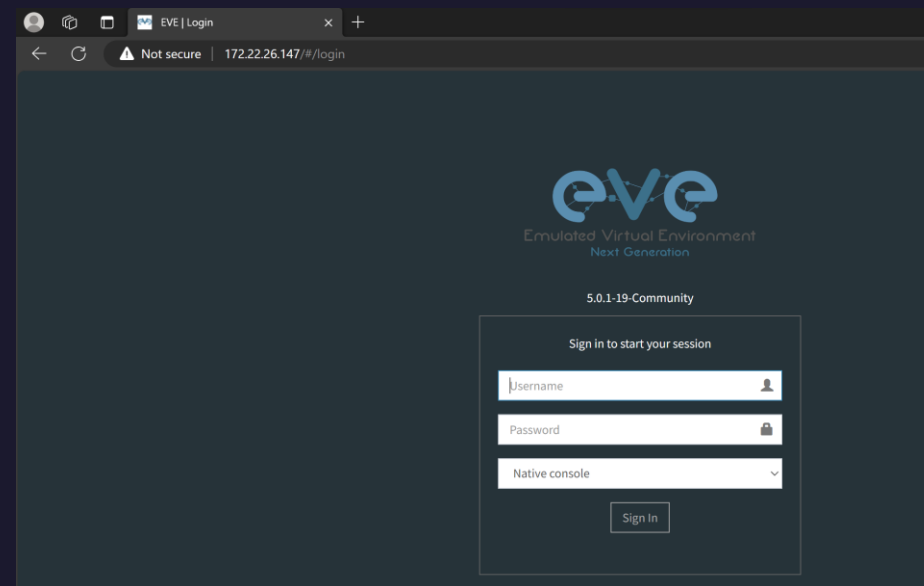
Ne logam in system cu userul 'root' si parola 'eve' , schimbam parola, validam setarile cerute si avem acces root.

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

```
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:~# |
```



The screenshot shows a web browser window with the title 'EVE | Login'. The address bar shows '172.22.26.147/#/login' and a 'Not secure' warning. The main content area features the 'eve' logo with the text 'Emulated Virtual Environment Next Generation' and '5.0.1-19-Community'. Below this is a 'Sign in to start your session' form with fields for 'Username', 'Password', and 'Native console' (a dropdown menu). A 'Sign In' button is at the bottom of the form.

Adaugarea sistemului Mikrotik CHR in Eve-NG

- 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 descaram 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

Cloud Hosted Router				
	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				

```
root@eve-ng:/opt/unetlab/addons/qemu/mikrotik-7.13.3# wget https://download.mikrotik.com/routers/7.13.3/chr-7.13.3.img.zip
--2024-02-01 08:48:34-- https://download.mikrotik.com/routers/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#
```

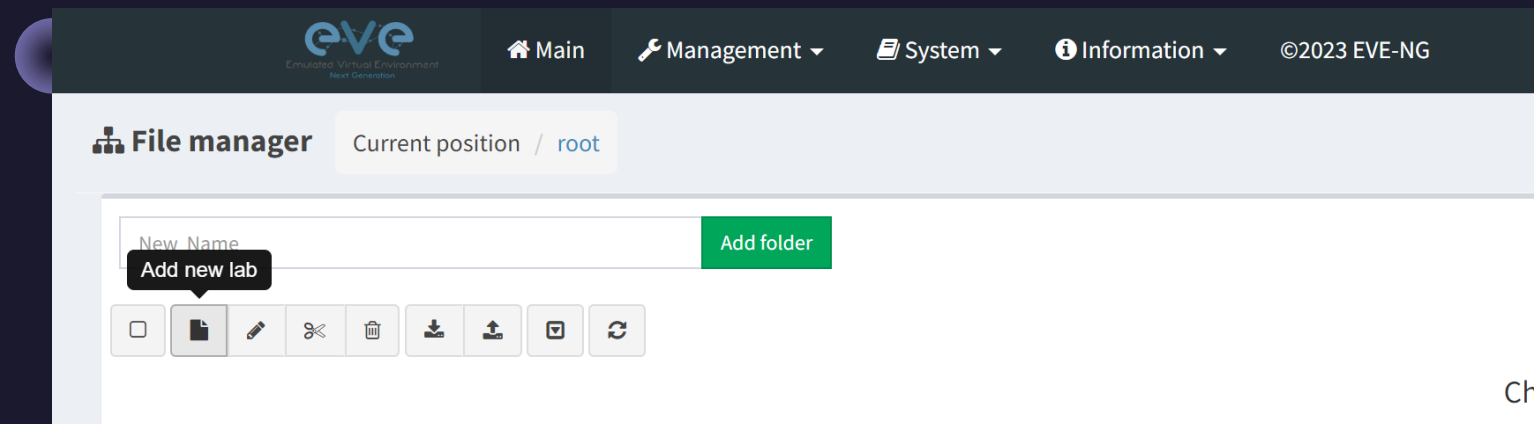

Adaugarea sistemului Mikrotik CHR in Eve-NG

- 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# |
```

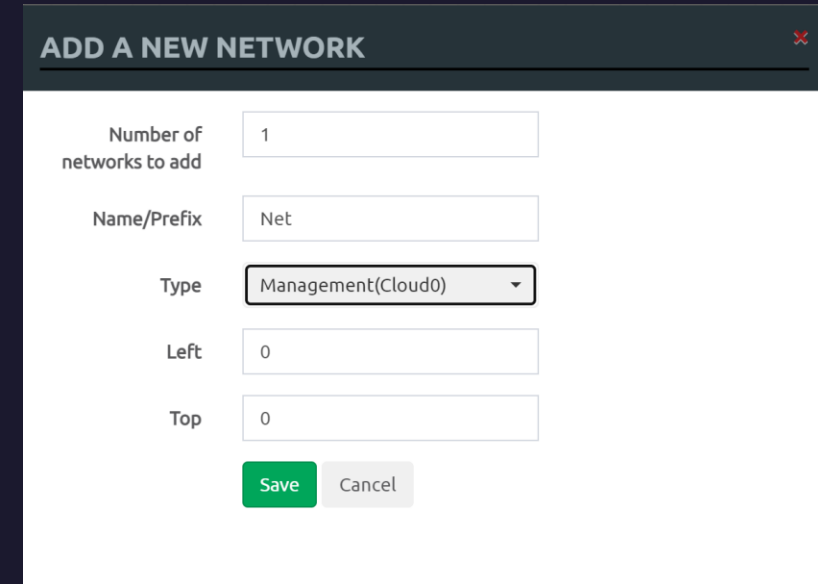
Crearea primului Laborator

- Ne întoarcem în interfața web
- Și facem un laborator nou

A screenshot of the 'Add New Lab' form in the EVE-NG interface. The form has a dark header with the title 'Add New Lab'. It contains several input fields: 'Name*' with the value 'primul laborator' and a tooltip 'Use only [A-Za-z0-9_-]chars'; 'Version*' with the value '1' and a tooltip 'Must be integer ([0-9]chars)'; 'Author' with the placeholder 'Enter Author'; 'Config Script Timeout' with the value '300' and a unit 'Seconds'. On the right side, there are two text areas: 'Description' with the placeholder 'Enter description' and 'Tasks' with the placeholder 'Enter tasks'. At the bottom right, there are 'Save' and 'Cancel' buttons. A footnote at the bottom left states '* - Required Fields'.

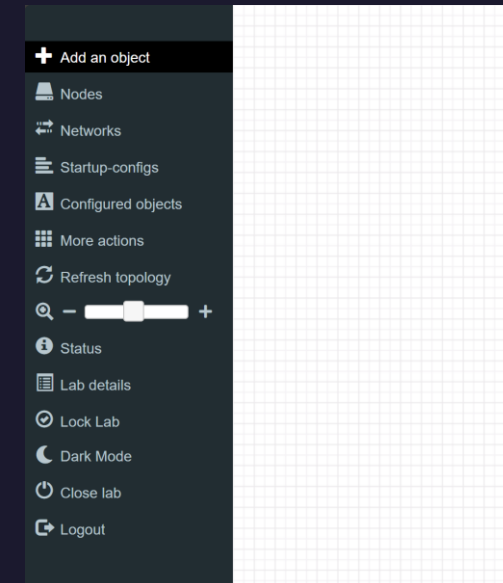
Crearea primului Laborator

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



The screenshot shows a dialog box titled "ADD A NEW NETWORK" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Number of networks to add:** A text input field containing the value "1".
- Name/Prefix:** A text input field containing the value "Net".
- Type:** A dropdown menu with "Management(Cloud0)" selected.
- Left:** A text input field containing the value "0".
- Top:** A text input field containing the value "0".
- Buttons:** A green "Save" button and a grey "Cancel" button at the bottom right.





A diagram illustrating a network connection. A light blue cloud icon with the text "Net" below it is connected by a line to a Mikrotik router icon. The router is a black cylindrical device with a red and white logo, and the text "Mikrotik" is printed below it.

ADD A NEW NODE

Template
 Mikrotik RouterOS

Number of nodes to add
 1

Image
 mikrotik-7.13.3

Name/prefix
 Mikrotik

Icon
 Router.png

UUID

CPU Limit
 CPU
 1

RAM (MB)
 256

Ethernets
 4

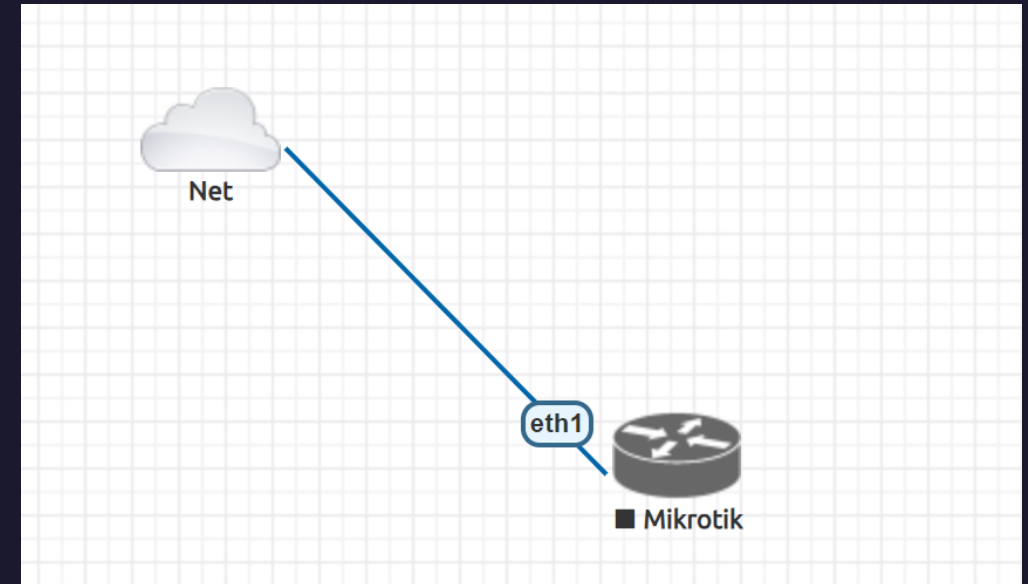
QEMU Version
 qemu(default 2.4.0)

QEMU Arch
 i386(x86_64)

QEMU Nic
 i386(1000)

QEMU custom options
 -machine type=pc-1.0,accel=svm -serial mon:stdio -nographic -no-user-config -no-m

Crearea primului Laborator



ADD CONNECTION BETWEEN MIKROTIK AND NET

Mikrotik

eth1

Net

Source ID: 1
Source Name: Mikrotik
type - Node

Choose Interface for Mikrotik
eth1

Destination ID: 2
Destination Name: Net
type - Network

Save Cancel

Crearea primului Laborator

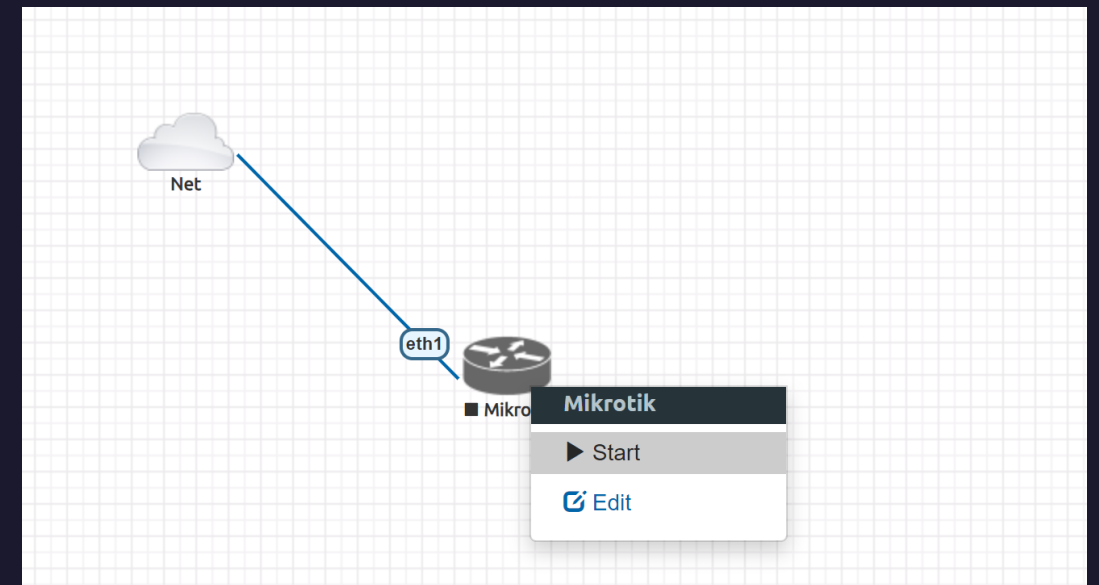
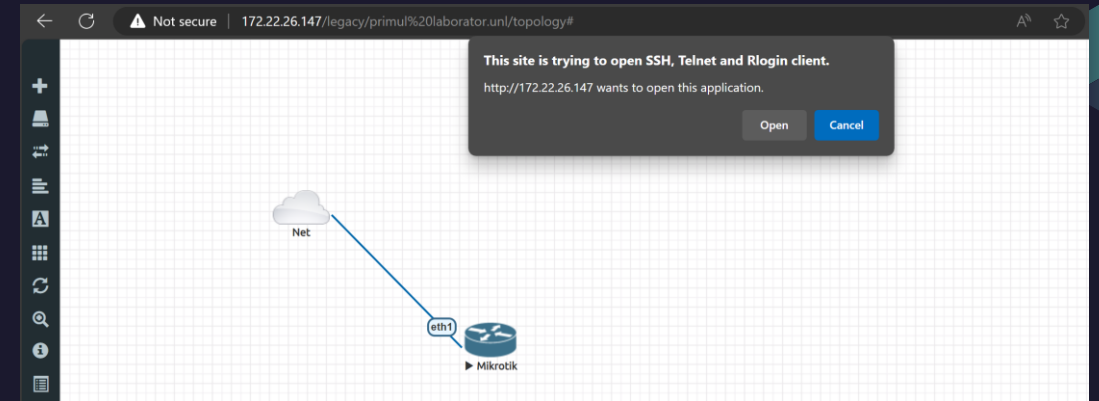
Pornim nodul

Descarcam si instalam pachetul client

[Download - \(eve-ng.net\)](http://eve-ng.net)

Pentru o comaptibilitate mai buna cu interfata web.

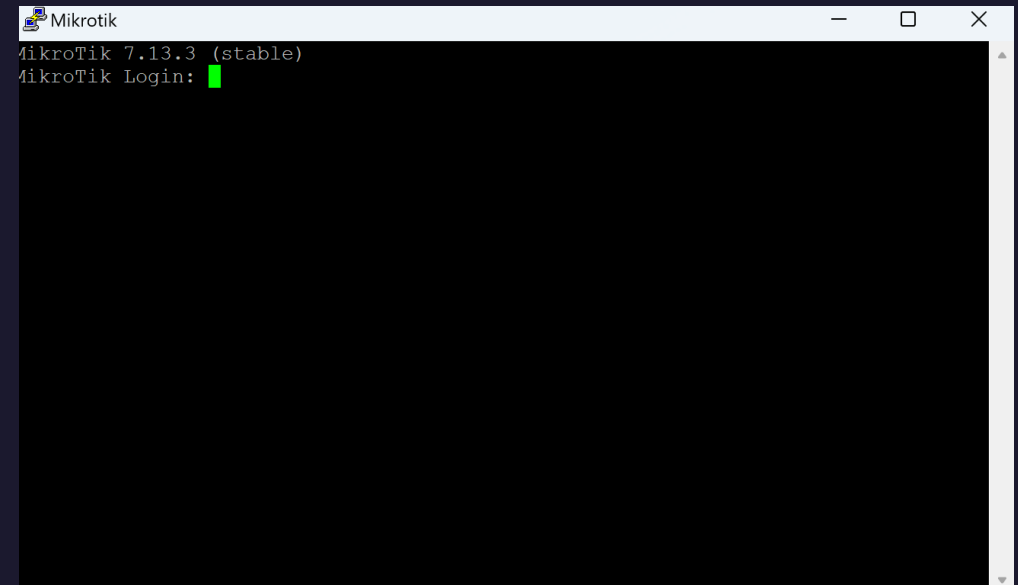
Si dand click pe nod apare un pop-up care cere sa deschida aplicatia pentru a se conecta la router.



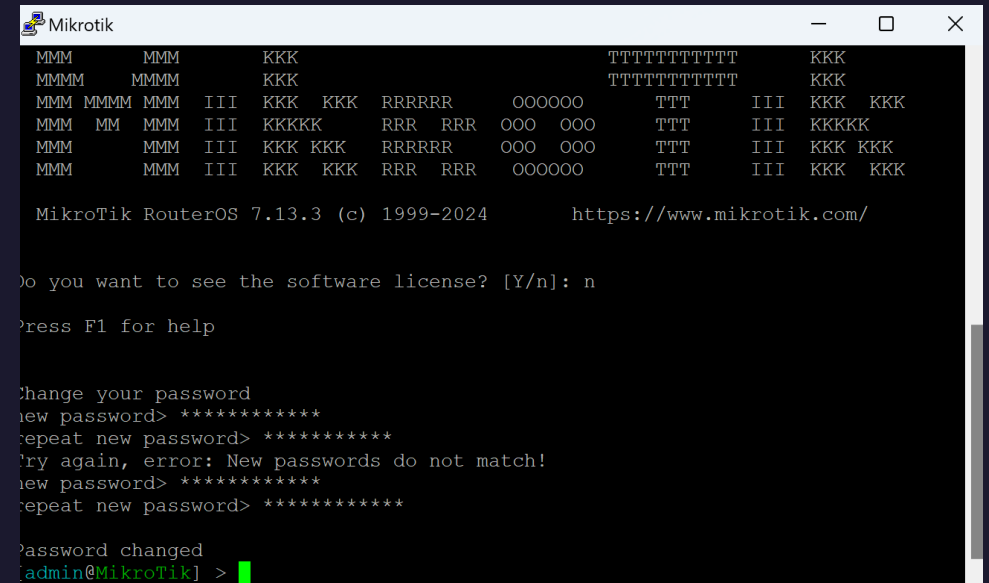
Crearea primului Laborator

Acum apare o fereastra putty pentru a ne putea loga.

Logarea initiala se face cu userul admin si cu parola goala.



```
Mikrotik
MikroTik 7.13.3 (stable)
MikroTik Login: 
```



```
Mikrotik
MMM      MMM      KKK      TTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTT      KKK
MMM MMMM MMM III KKK KKK RRRRRR 000000 TTT III KKK KKK
MMM MM  MMM III KKKKK RRR RRR 000 000 TTT III KKKKK
MMM      MMM III KKK KKK RRRRRR 000 000 TTT III KKK KKK
MMM      MMM III KKK KKK RRR RRR 000000 TTT III KKK KKK

MikroTik RouterOS 7.13.3 (c) 1999-2024      https://www.mikrotik.com/

Do you want to see the software license? [Y/n]: n
Press F1 for help

Change your password
new password> *****
repeat new password> *****
Try again, error: New passwords do not match!
new password> *****
repeat new password> *****

Password changed
[admin@MikroTik] > 
```




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] > █
```