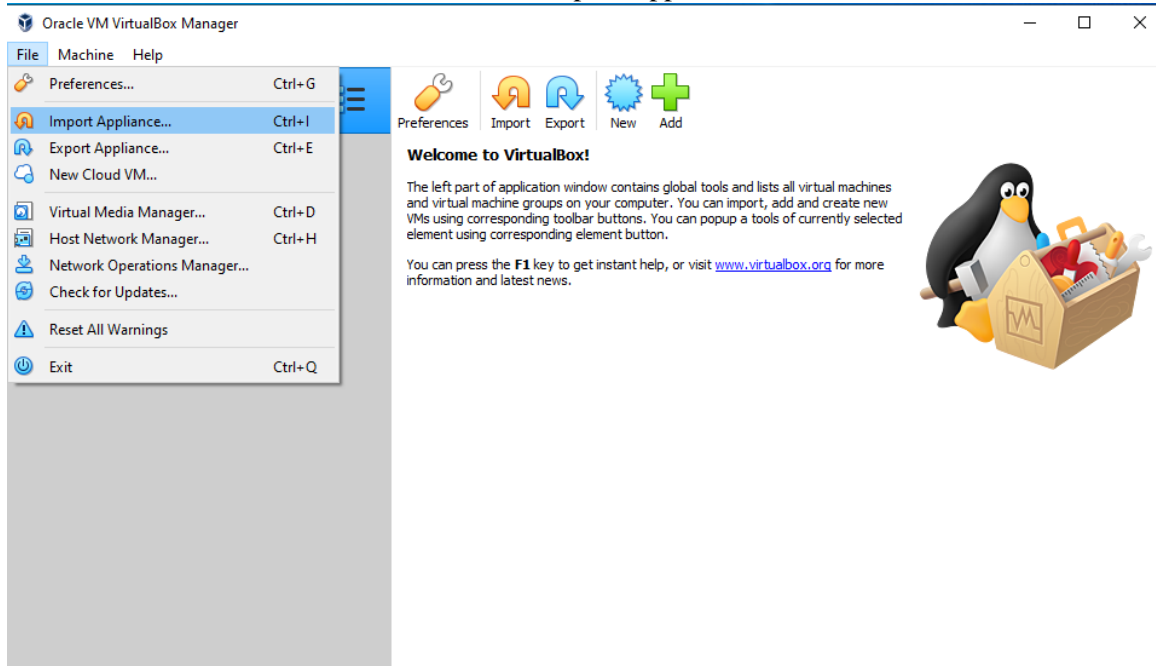


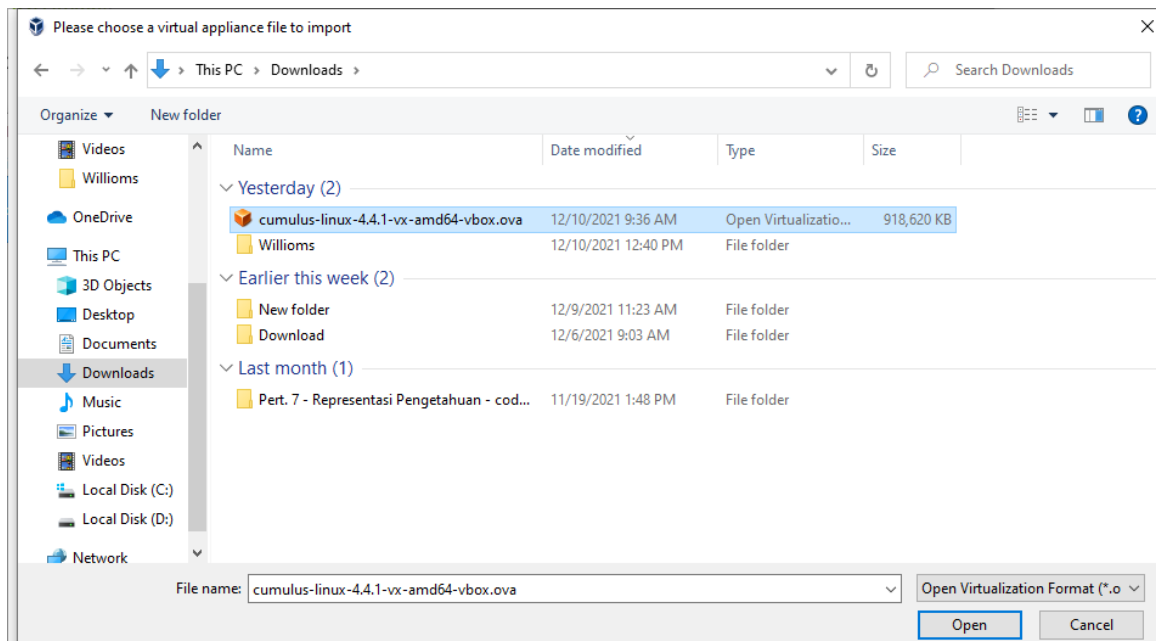
Nama : Jefry Lianto
NIM : 191402027
KOM : C

Menggunakan Cumulus VX Bersama GNS3

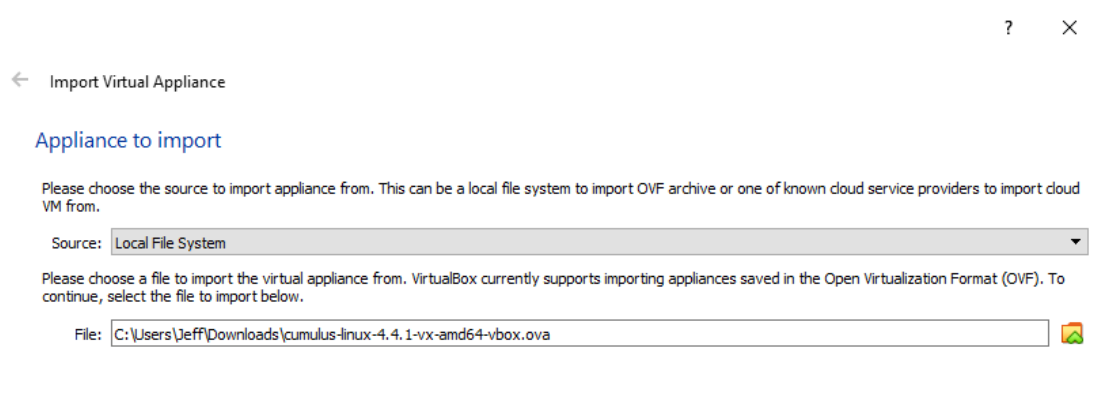
1. Buka Oracle Virtual Box, Kemudian Import Appliance



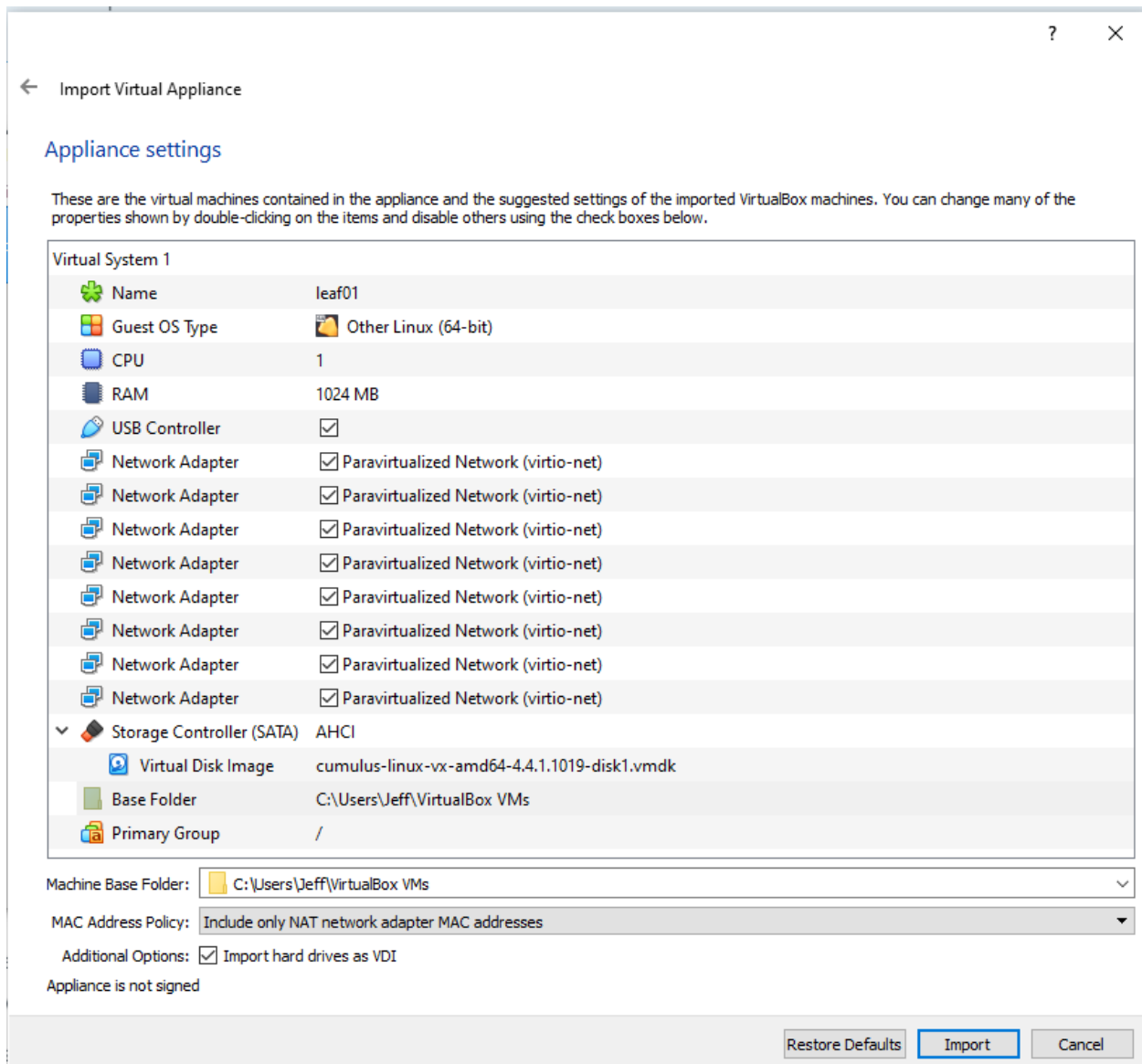
2. Pilih cumulus linux ova



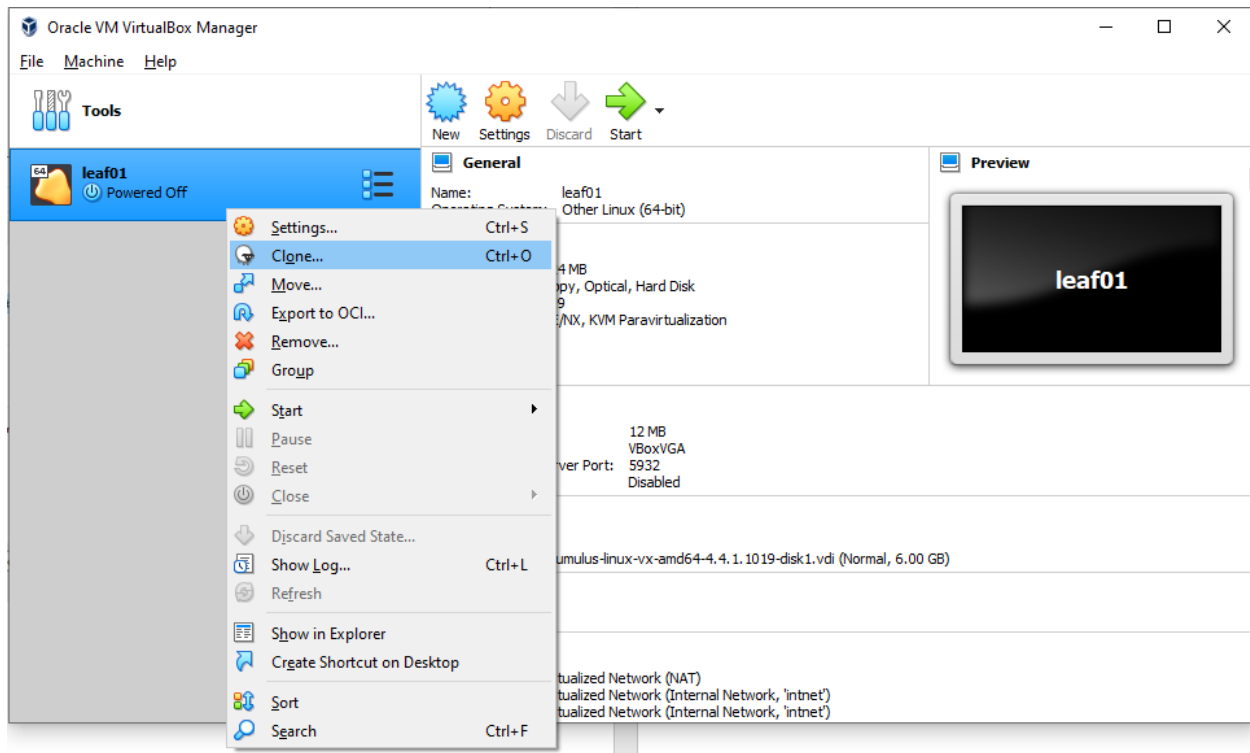
3. Import



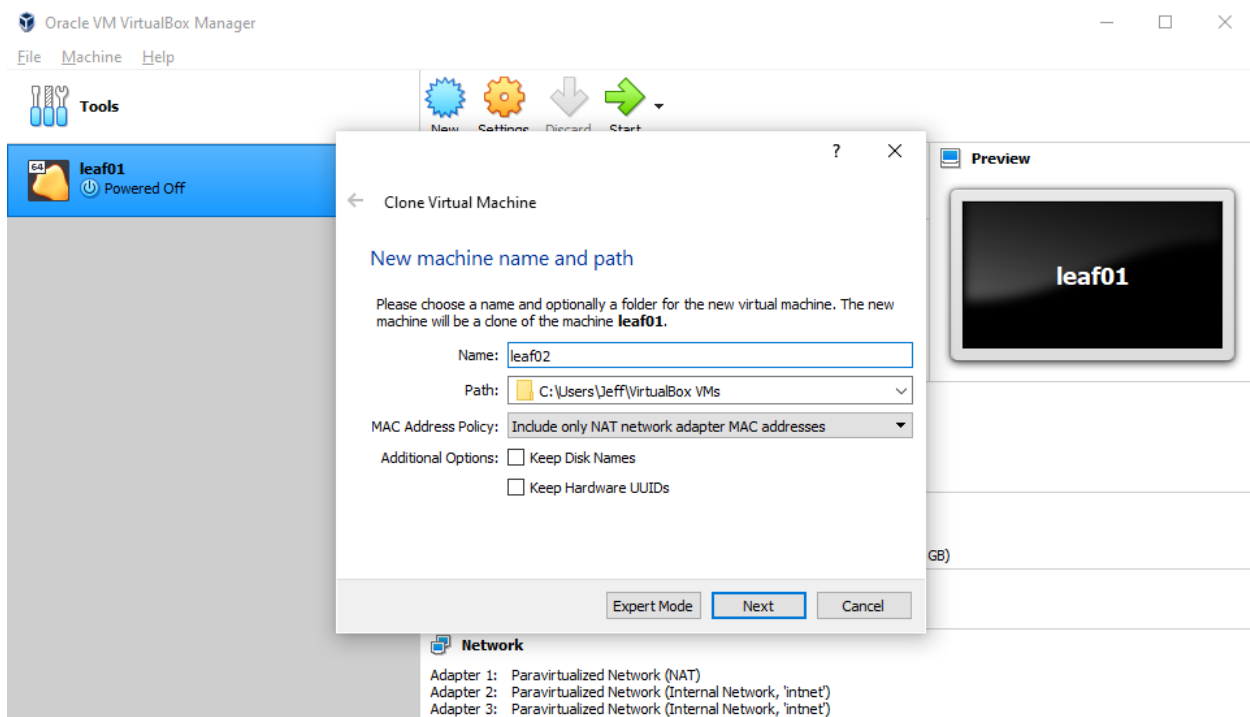
4. Ubah nama VM menjadi leaf01.



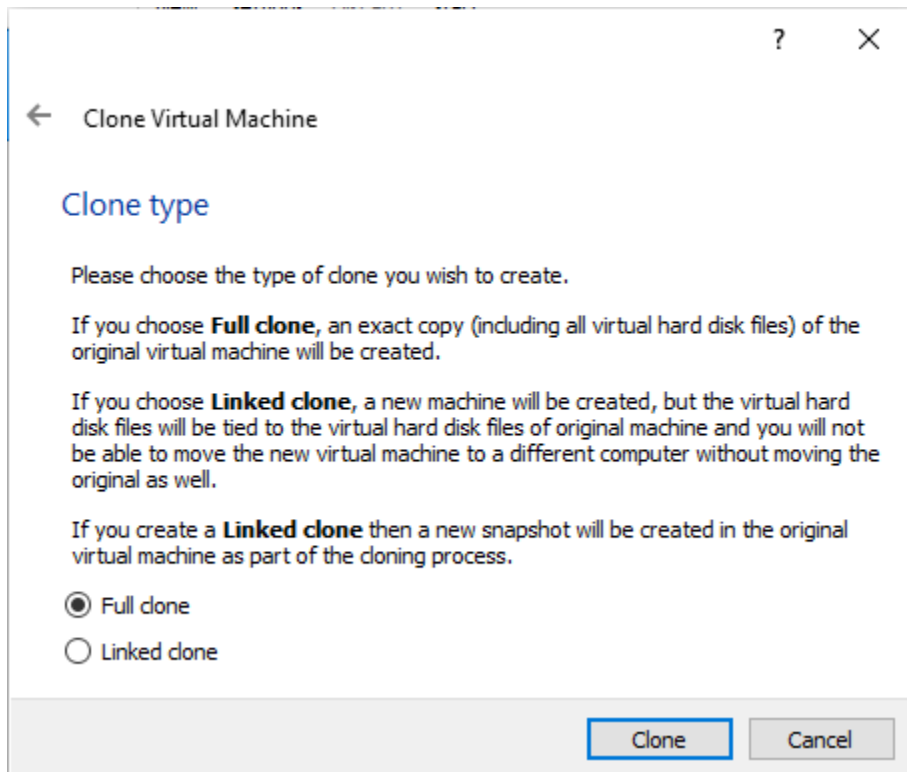
5. Setelah itu, clone vm tersebut.



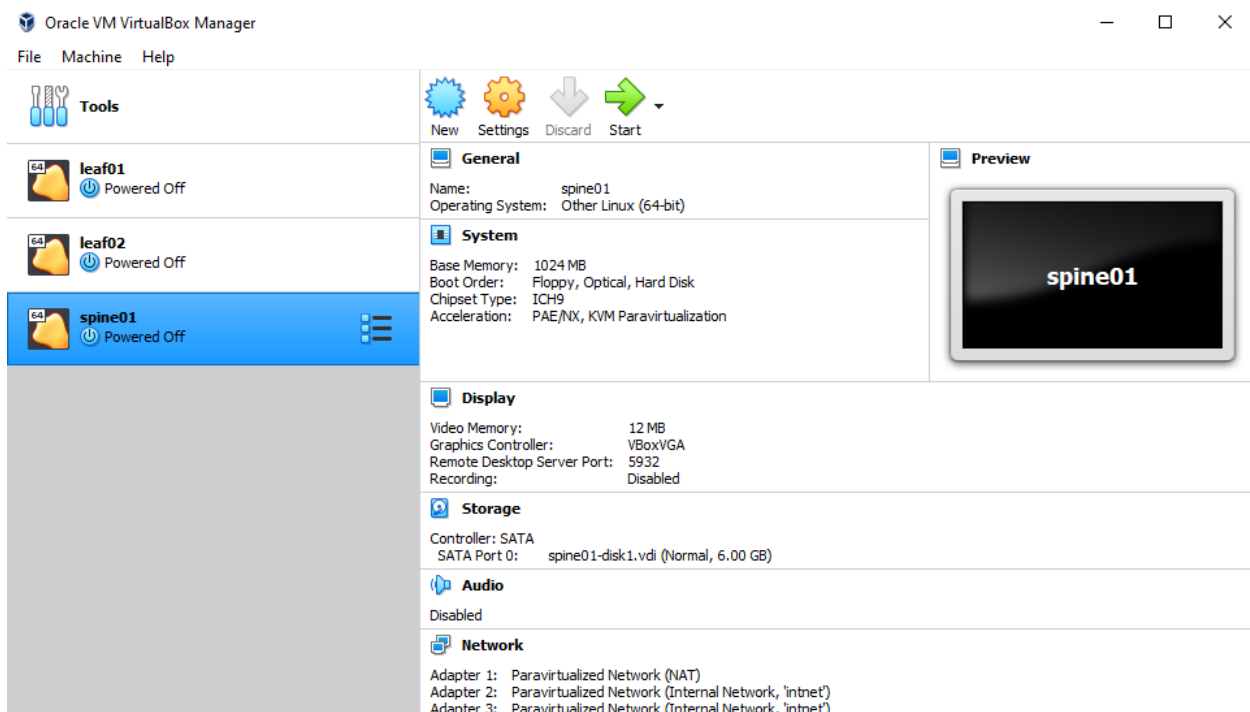
6. Buat nama nya menjadi leaf02.



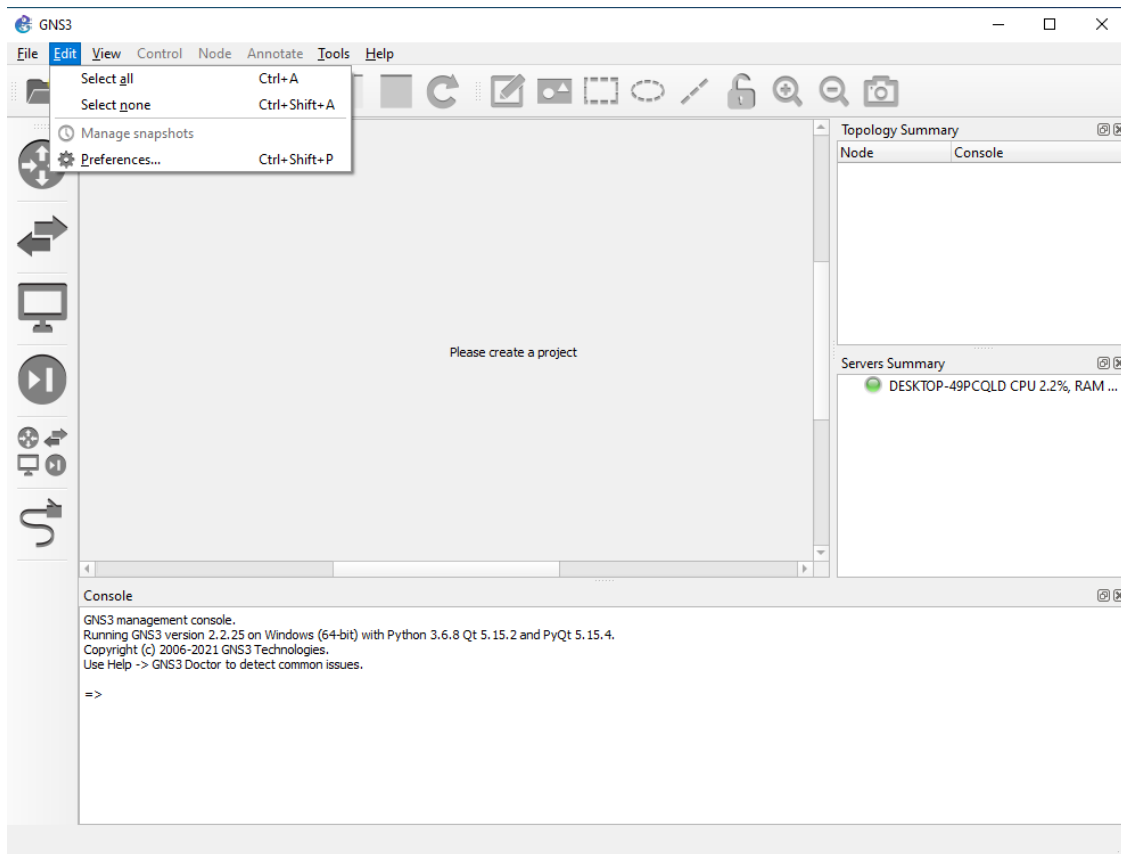
7. Klik Full clone.



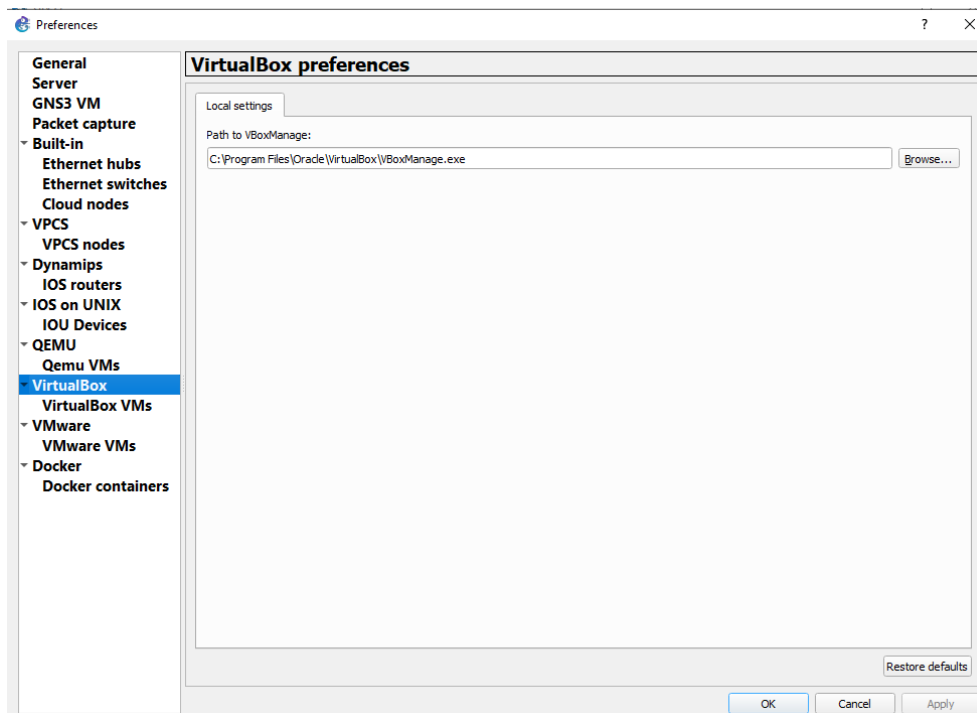
8. Lakukan hal yang sama untuk membuat spine01.



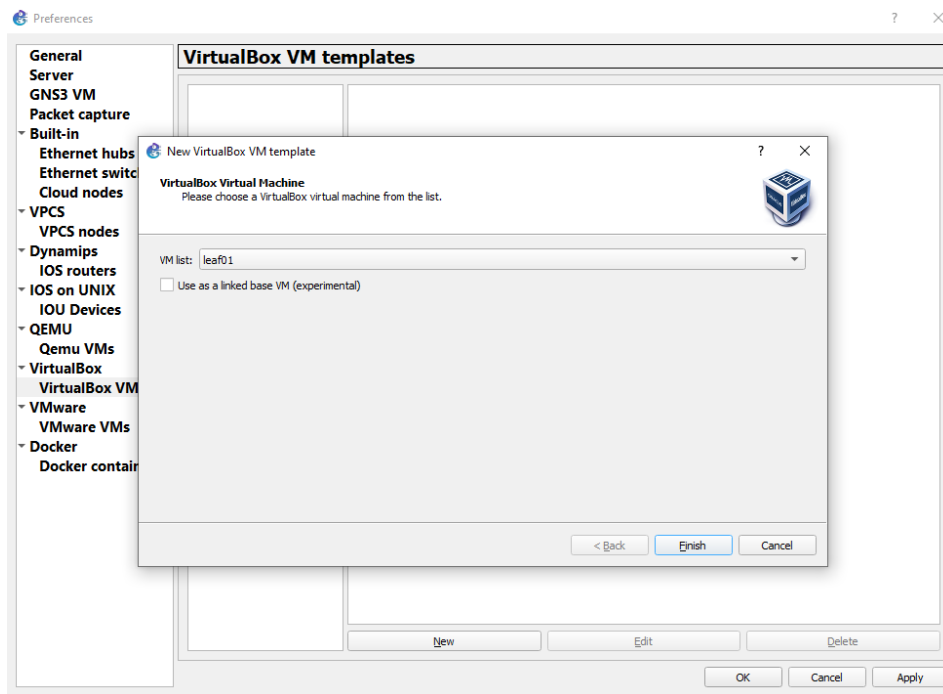
9. Setelah itu, ke bagian edit, klik pferences.



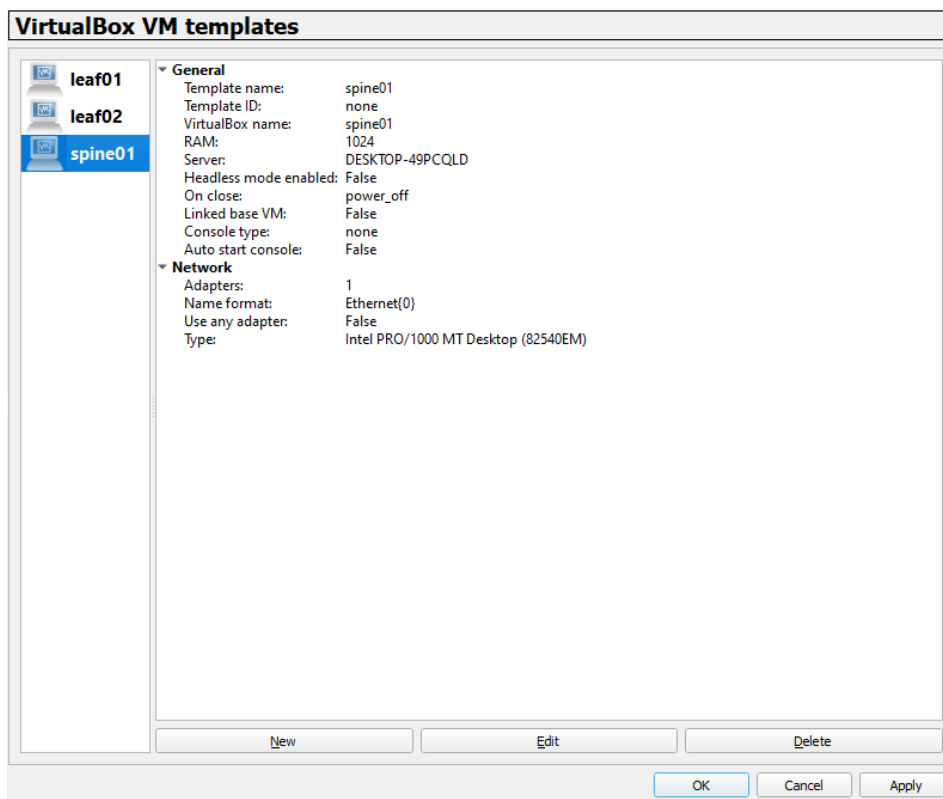
10. Pilih bagian VirtualBox.



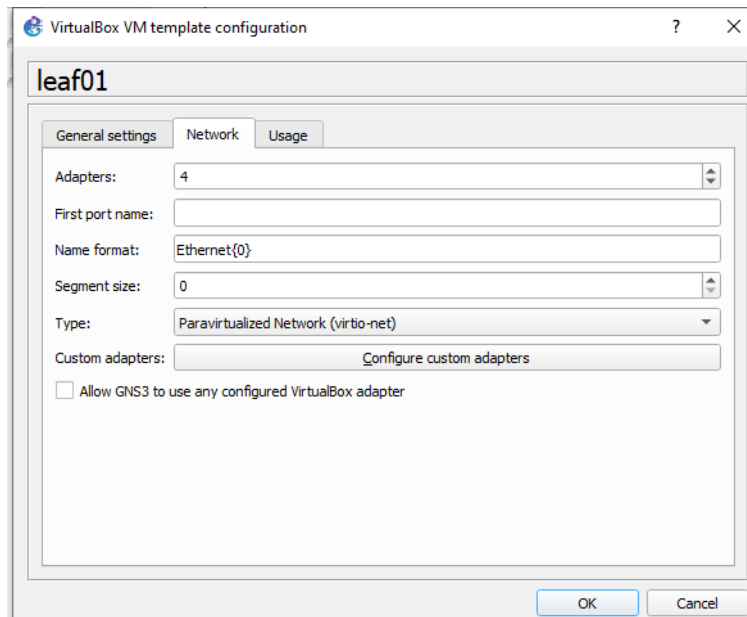
11. Klik new dan buat nama VMnya menjadi leaf01. Lakukan juga untuk leaf02 dan spine01.



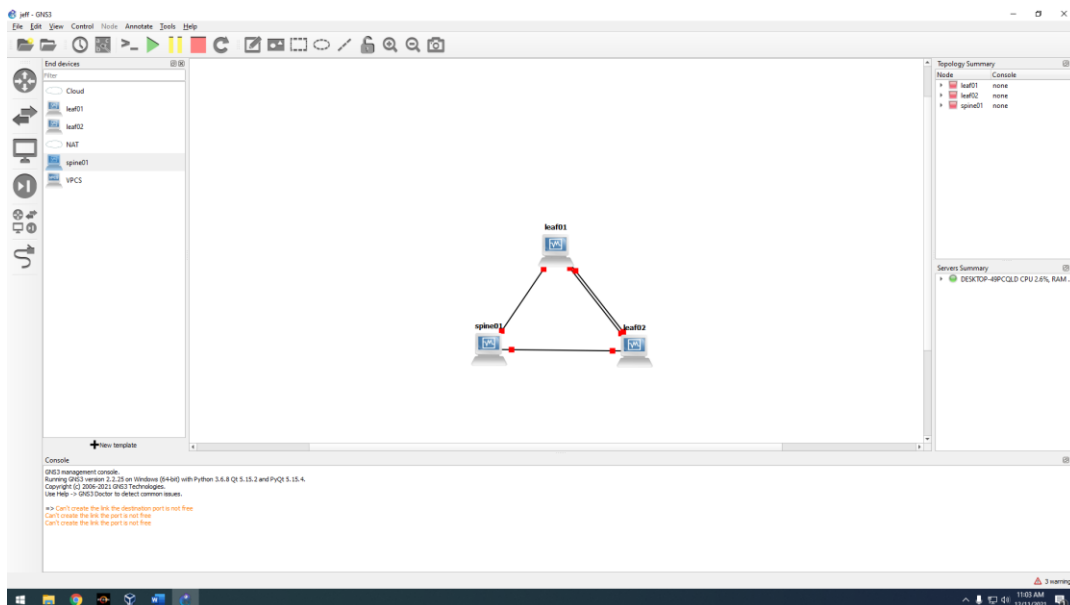
12. Setelah itu edit VM.



13. Pergi ke bagian network dan setting seperti berikut. Jangan lupa untuk allow GNS3 adapter.



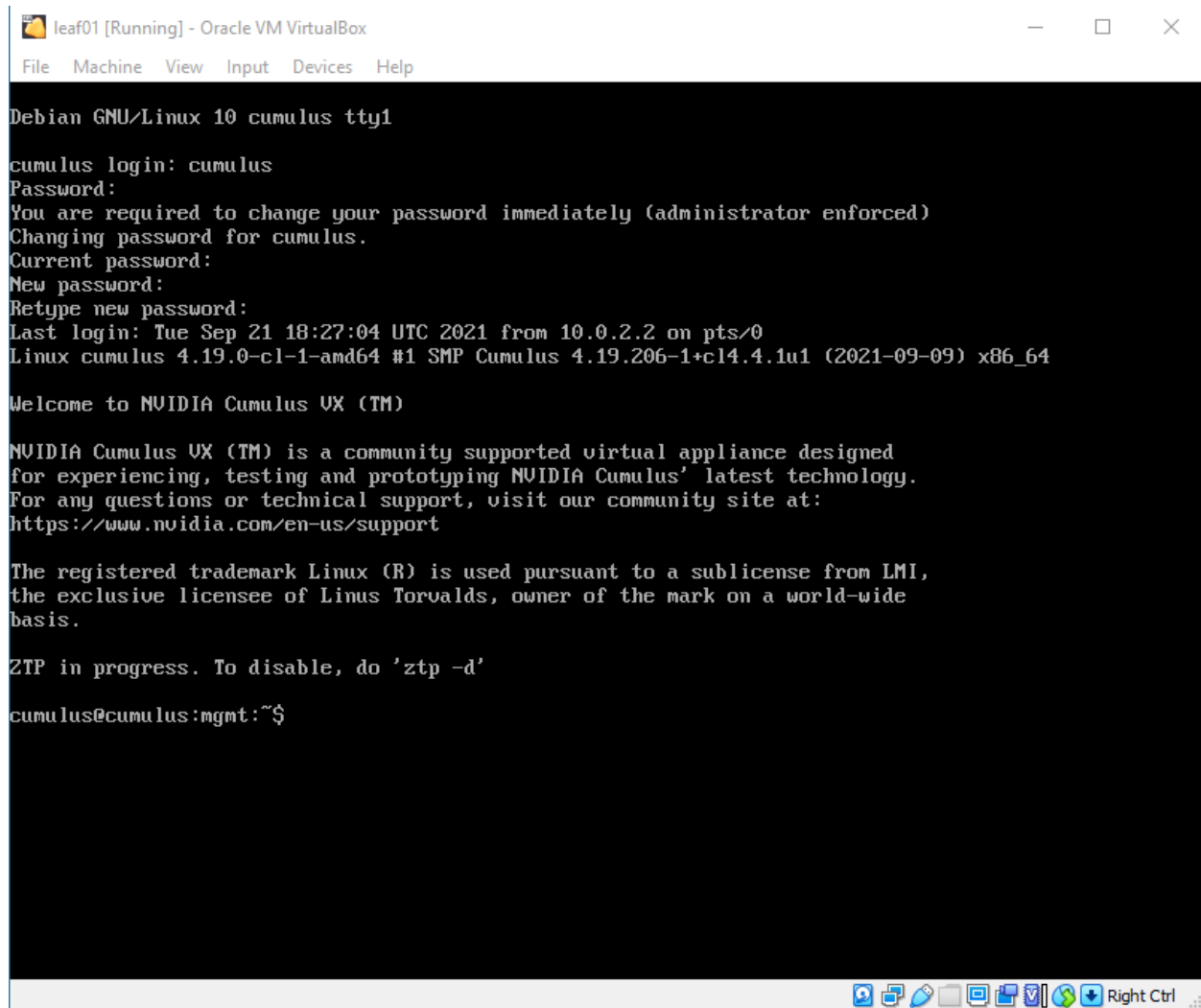
14. Setelah selesai setting, buat project baru dengan topology berikut.



Node	Console
leaf01	none
leaf02	none
spine01	none

leaf01	e1 <=> e1 spine01
leaf01	e2 <=> e2 leaf02
leaf01	e3 <=> e3 leaf02
leaf02	e1 <=> e2 spine01
leaf02	e2 <=> e2 leaf01
leaf02	e3 <=> e3 leaf01
spine01	e1 <=> e1 leaf01
spine01	e2 <=> e1 leaf02

15. Setelah itu, akan muncul 3 VM bernama leaf01, leaf02 dan spine01. Login dengan username cumulus dan password cumulus.



```
leaf01 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Debian GNU/Linux 10 cumulus tty1

cumulus login: cumulus
Password:
You are required to change your password immediately (administrator enforced)
Changing password for cumulus.
Current password:
New password:
Retype new password:
Last login: Tue Sep 21 18:27:04 UTC 2021 from 10.0.2.2 on pts/0
Linux cumulus 4.19.0-cl-1-amd64 #1 SMP Cumulus 4.19.206-1+cl4.4.1u1 (2021-09-09) x86_64

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basis.

ZTP in progress. To disable, do 'ztp -d'

cumulus@cumulus:mgmt:~$
```

16. Setelah itu konfigurasi seperti berikut.

Leaf 1

```
cumulus@cumulus:mgmt:~$ net add hostname leaf01
cumulus@cumulus:mgmt:~$ net add interface swp1,swp2,swp3
cumulus@cumulus:mgmt:~$ net commit
cumulus@cumulus:mgmt:~$ exit
```

Leaf 2


```

cumulus@cumulus:mgmt:~$ net add hostname leaf02
cumulus@cumulus:mgmt:~$ net add interface swp1,swp2,swp3
cumulus@cumulus:mgmt:~$ net commit
cumulus@cumulus:mgmt:~$ exit

```

Spine 01

```

cumulus@cumulus:mgmt:~$ net add hostname spine01
cumulus@cumulus:mgmt:~$ net add interface swp1,swp2
cumulus@cumulus:mgmt:~$ net commit
cumulus@cumulus:mgmt:~$ exit

```

17. Lakukan pengecekan konfigurasi network dengan new show lldp. Jika berhasil, maka akan muncul tampilan seperti dibawah ini.

Tampilan leaf01

```

Debian GNU/Linux 10 leaf01 tty1
leaf01 login: cumulus
Password:
Last login: Sat Dec 11 04:43:59 UTC 2021 on tty1
Linux leaf01 4.19.0-c1-1-amd64 #1 SMP Cumulus 4.19.206-1+c14.4.1u1 (2021-09-09) x86_64

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basis.
cumulus@leaf01:mgmt:~$ net show lldp

```

LocalPort	Speed	Mode	RemoteHost	RemotePort
swp1	1G	Default	spine01	swp1
swp2	1G	Default	leaf02	swp2
swp3	1G	Default	leaf02	swp3

```

cumulus@leaf01:mgmt:~$ _

```

Tampilan leaf02

```
Debian GNU/Linux 10 leaf02 tty1

leaf02 login: cumulus
Password:
Last login: Sat Dec 11 04:52:26 UTC 2021 on tty1
Linux leaf02 4.19.0-cl-1-amd64 #1 SMP Cumulus 4.19.206-1+cl4.4.1u1 (2021-09-09) x86_64

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cumulus@leaf02:mgmt:~$ net show lldp
```

LocalPort	Speed	Mode	RemoteHost	RemotePort
swp1	1G	Default	spine01	swp2
swp2	1G	Default	leaf01	swp2
swp3	1G	Default	leaf01	swp3

```
cumulus@leaf02:mgmt:~$
```

Tampilan spine01

```
Debian GNU/Linux 10 spine01 tty1

spine01 login: cumulus
Password:
Last login: Sat Dec 11 04:53:31 UTC 2021 on tty1
Linux spine01 4.19.0-cl-1-amd64 #1 SMP Cumulus 4.19.206-1+cl4.4.1u1 (2021-09-09) x86_64

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basis.
cumulus@spine01:mgmt:~$ net show lldp
```

LocalPort	Speed	Mode	RemoteHost	RemotePort
swp1	1G	Default	leaf01	swp1
swp2	1G	Default	leaf02	swp1

```
cumulus@spine01:mgmt:~$
```