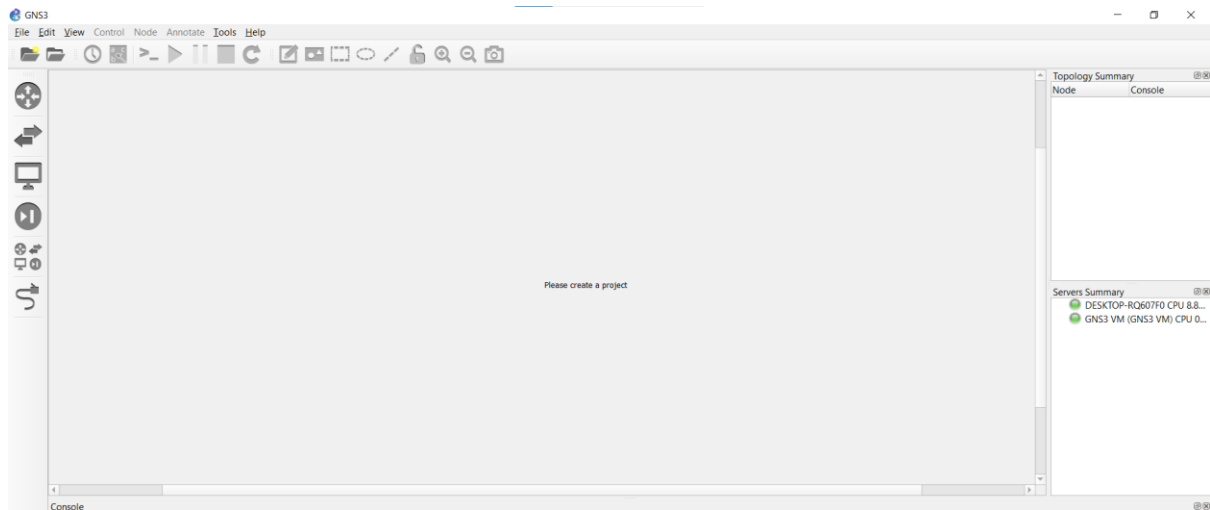


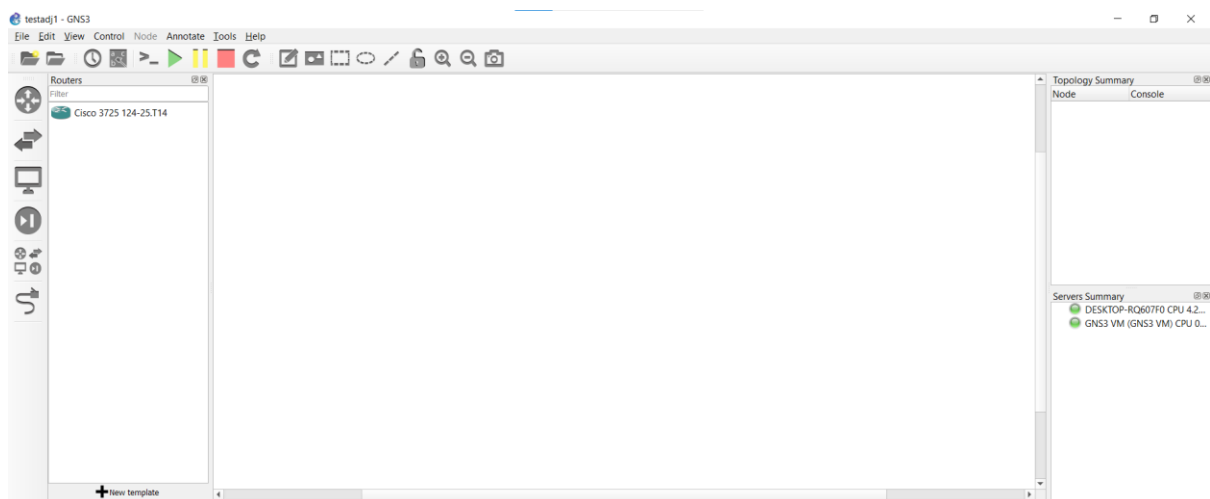
Nama : Nanda Ambiya
NIM : 191402039
KOM : C
UTS : Administrasi dan Jaringan

Link 1:

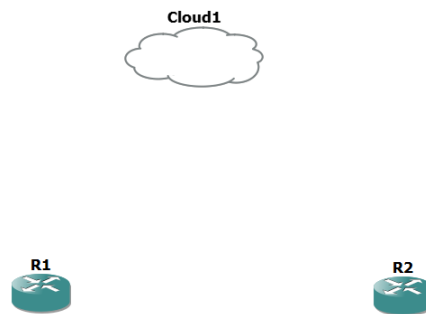
1. Disini saya menggunakan file baru



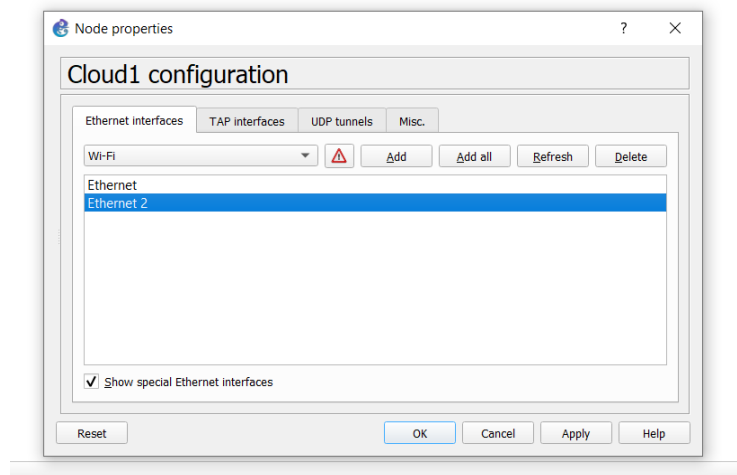
2. Untuk menyelesaikan tugas ini, pastikan kita sudah mendownload cisco 3725



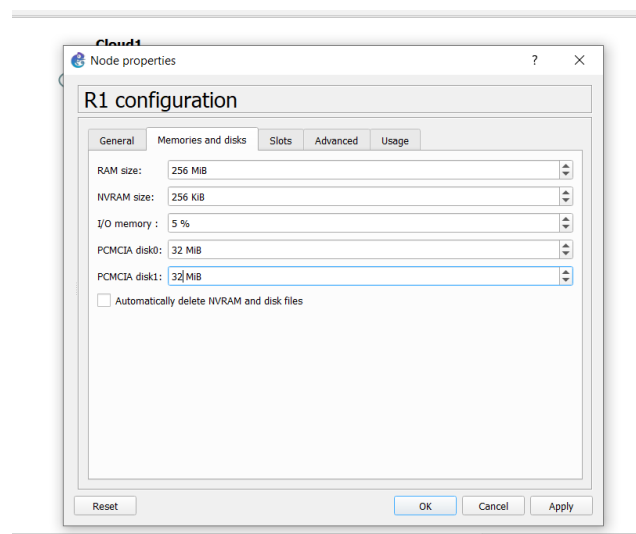
3. Terus klik navbar monitor, terus drag cloud dan 2 cisco(R1 dan R2)



4. Ganti konfigurasi cloud dengan memilih ethernet yang digunakan(pakai ethernet2)



5. Configuration R1 saya, saya buat seperti dibawah ini:



6. Lalu pilih console dan tampilan nya akan seperti ini :

```
32768K bytes of ATA Slot0 CompactFlash (Read/Write)
Installed image archive
SETUP: new interface FastEthernet0/0 placed in "shutdown" state
SETUP: new interface FastEthernet0/1 placed in "shutdown" state
% There may not be enough space available to collect the complete crashinfo
% It would be advisable to have 280755 bytes free space on flash:crashinfo

Press RETURN to get started!

*Mar 1 00:00:03.279: %LINEPROTO-5-UPDOWN: Line protocol on Interface VoIP-Null0
, changed state to up
*Mar 1 00:00:03.283: %LINEPROTO-5-UPDOWN: Line protocol on Interface IPv6-mpls,
changed state to up
*Mar 1 00:00:03.447: %SYS-5-CONFIG I: Configured from memory by console
*Mar 1 00:00:03.603: %LINK-5-CHANGED: Interface FastEthernet0/0, changed state
to administratively down
*Mar 1 00:00:03.607: %LINK-5-CHANGED: Interface FastEthernet0/1, changed state
to administratively down
*Mar 1 00:00:03.723: %SYS-5-RESTART: System restarted --
Cisco IOS Software, 3700 Software (C3725-ADVENTERPRISEK9-M), Version 12.4(15)T14
, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2010 by Cisco Systems, Inc.
Compiled Tue 17-Aug-10 12:00 by prod_rel_team
*Mar 1 00:00:03.735: %SNMP-5-COLDSTART: SNMP agent on host R1 is undergoing a c
old start
*Mar 1 00:00:03.743: %PCMCIAFS-5-DIBERR: PCMCIA disk 1 is formatted from a diff
erent router or PC. A format in this router is required before an image can be b
ooted from this device
*Mar 1 00:00:03.779: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is OFF
*Mar 1 00:00:03.779: %CRYPTO-6-GDOI_ON_OFF: GDOI is OFF
*Mar 1 00:00:04.603: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et0/0, changed state to down
*Mar 1 00:00:04.607: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et0/1, changed state to down
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface FastEthernet 0/0
R1(config-if)#ip address 192.168.42.100 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exit
*Mar 1 00:04:01.507: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar 1 00:04:02.507: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1(config-if)#exit
R1(config)#
```

7. ikuti Langkah pada sumber yang diberikan: <https://docs.gns3.com/docs/using-gns3/advanced/connect-gns3-internet/> akan tetapi memilih Option 2 yaitu Manual Configuration.

Pada bagian dibawah ini ip yang digunakan adalah ip cloud yang dikoneksikan (dalam hal ini saya menggunakan ip dari ethernet2)

```
R1# configure terminal
R1(config)# interface FastEthernet 0/0
R1(config-if)# ip address 192.168.1.123 255.255.255.0
R1(config-if)# no shutdown
R1(config-if)# exit
```

Configure a default gateway:

```
R1(config)# ip route 0.0.0.0 0.0.0.0 192.168.1.249
R1(config)# end
```

8. buka CMD dan ketik ipconfig

```
Command Prompt

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :

Ethernet adapter VirtualBox Host-Only Network:

Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::b814:6743:3ae1:5b39%17
IPv4 Address. . . . . : 192.168.56.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Ethernet adapter Ethernet 2:

Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::51ff:c67d:6f33:2e91%13
IPv4 Address. . . . . : 192.168.42.70
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.42.129

Wireless LAN adapter Wi-Fi:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 1:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
```

9. Ikuti link dan hasil sukses nya akan seperti ini:

```

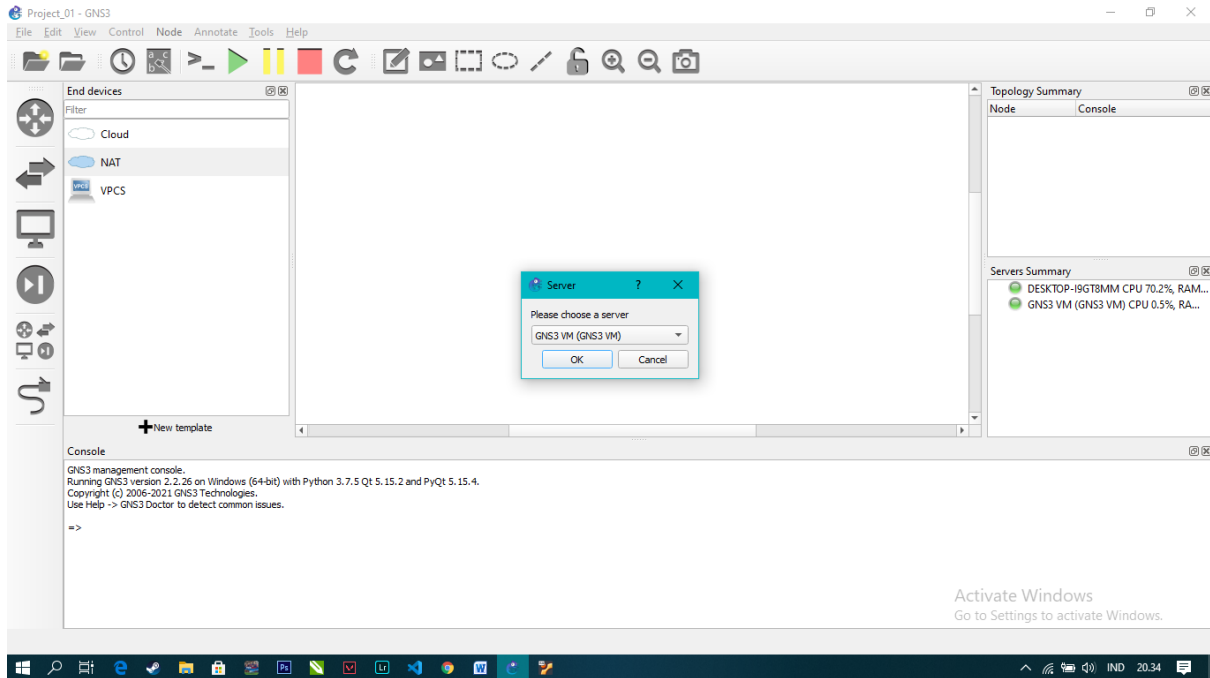
R1
R2
Cisco IOS Software, 3700 Software (C3725-ADVENTERPRISEK9-H), Version 12.4(15)T14
, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2010 by Cisco Systems, Inc.
Compiled Tue 17-Aug-10 12:00 by prod_rel_team
*Mar 1 00:00:03.563: %SNMP-5-COLDSTART: SNMP agent on host R2 is undergoing a c
old start
*Mar 1 00:00:03.607: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is OFF
*Mar 1 00:00:03.607: %CRYPTO-6-GDOI_ON_OFF: GDOI is OFF
*Mar 1 00:00:04.443: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet
et0/0, changed state to down
*Mar 1 00:00:04.443: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet
et0/1, changed state to down
R2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#interface FastEthernet 0/0
R2(config-if)#ip address 10.1.1.2 255.255.255.0
R2(config-if)#no shutdown
R2(config-if)#exit
*Mar 1 00:10:47.863: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar 1 00:10:48.863: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R2(config-if)#exit
R2(config)#router ospf 1
R2(config-router)#network 10.0.0.0 0.255.255.255 area 0
R2(config-router)#end
*Mar 1 00:15:49.723: %OSPF-5-ADJCHG: Process 1, Nbr 192.168.42.100 on FastEthernet0/0 from LOADING to FULL, Loading Done
R2(config-router)#end
R2#
*Mar 1 00:15:51.431: %SYS-5-CONFIG_I: Configured from console by console
R2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#ip domain-lookup
R2(config)#ip name-server 8.8.8.8
R2(config)#end
R2#
*Mar 1 00:17:33.207: %SYS-5-CONFIG_I: Configured from console by console
R2#ping google.com

Translating "google.com"...domain server (8.8.8.8) [OK]

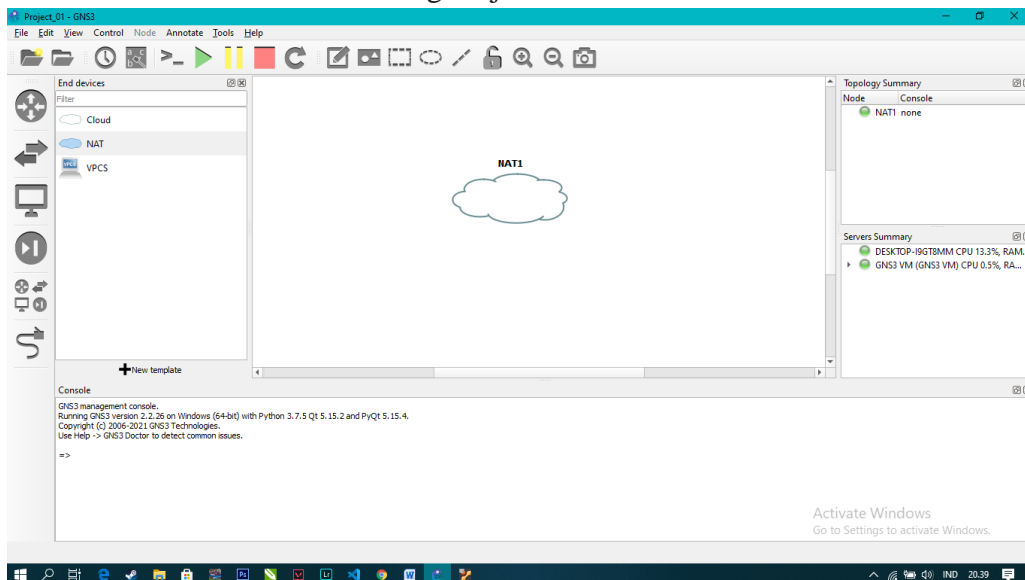
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 172.217.194.139, timeout is 2 seconds:
.....
Success rate is 80 percent (4/5), round-trip min/avg/max = 16/46/108 ms
R2#write memory
Building configuration...
[OK]
R2#
```

Link 2:

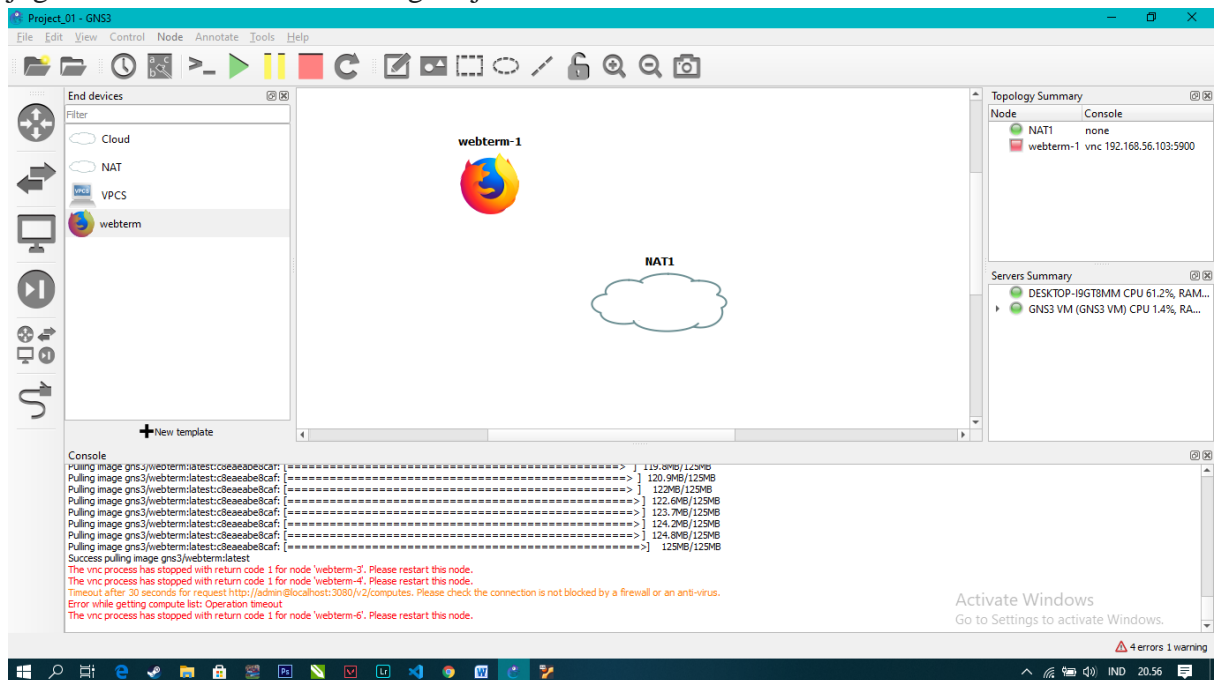
1. Untuk menambahkan simpul NAT ke topologi, seret dan lepas ke ruang kerja. Kita akan diminta untuk menentukan jenis server yang ingin kita gunakan, untuk menjalankan node NAT. Saya akan menggunakan wadah buruh pelabuhan Webterm untuk menguji konektivitas internet, sehingga jenis server perlu disetel ke GNS3 VM, karena ini dilakukan pada workstation Win10:



2. Node NAT akan muncul di ruang kerja

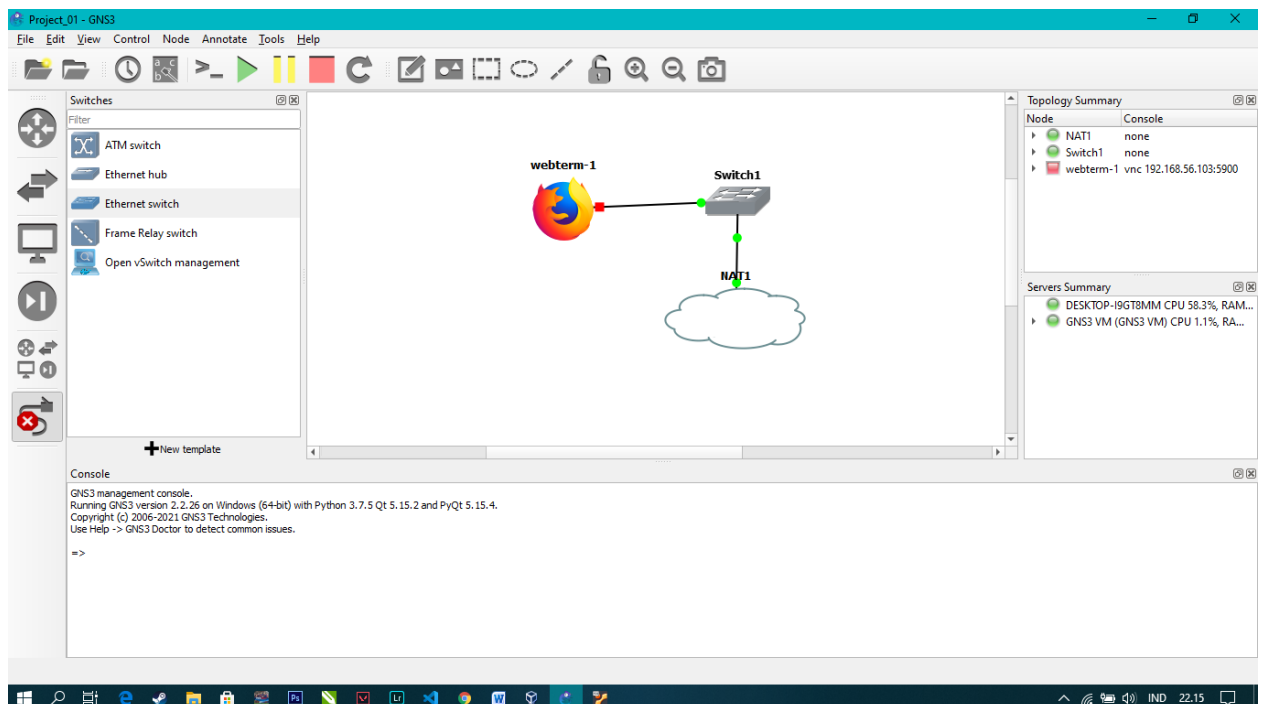


3. Selanjutnya, install webterm dari new template dan wadah buruh pelabuhan Webterm juga akan ditambahkan ke ruang kerja:

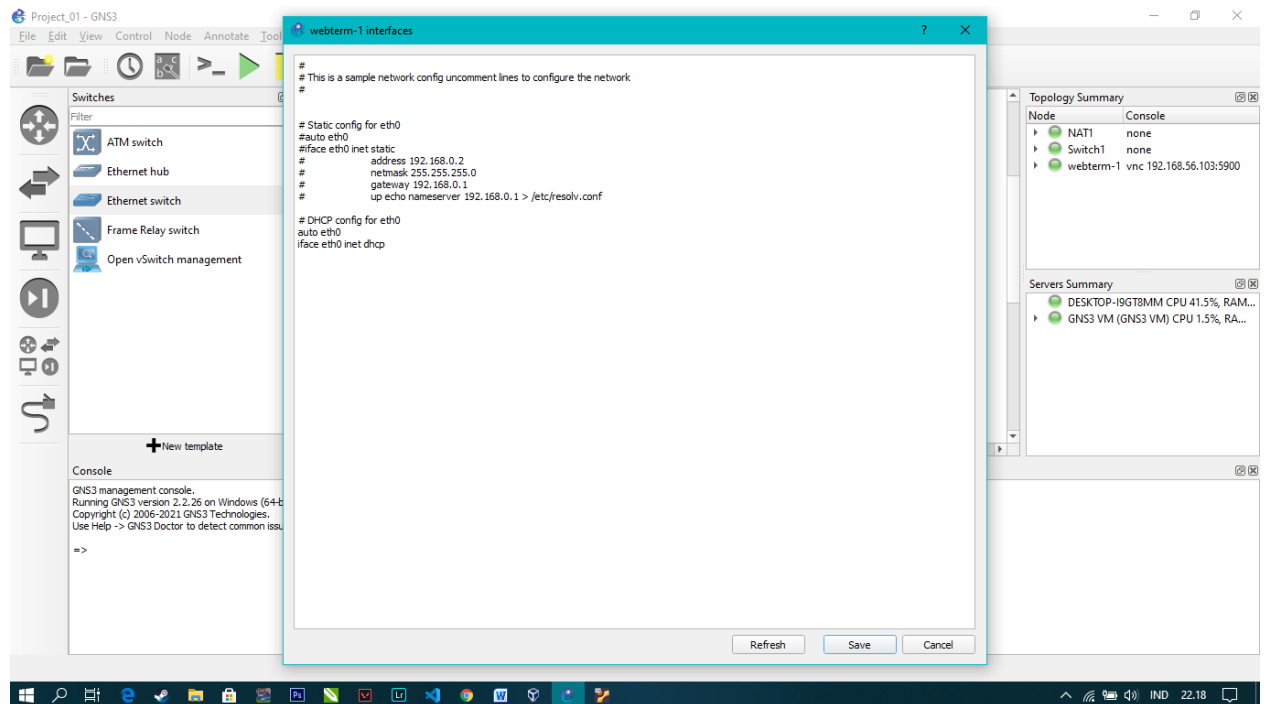


4. Untuk memungkinkan lebih dari satu node topologi memiliki akses ke internet, perlu untuk menghubungkan switch atau router ke node NAT, dan kemudian menghubungkan node topologi ke perangkat lain.

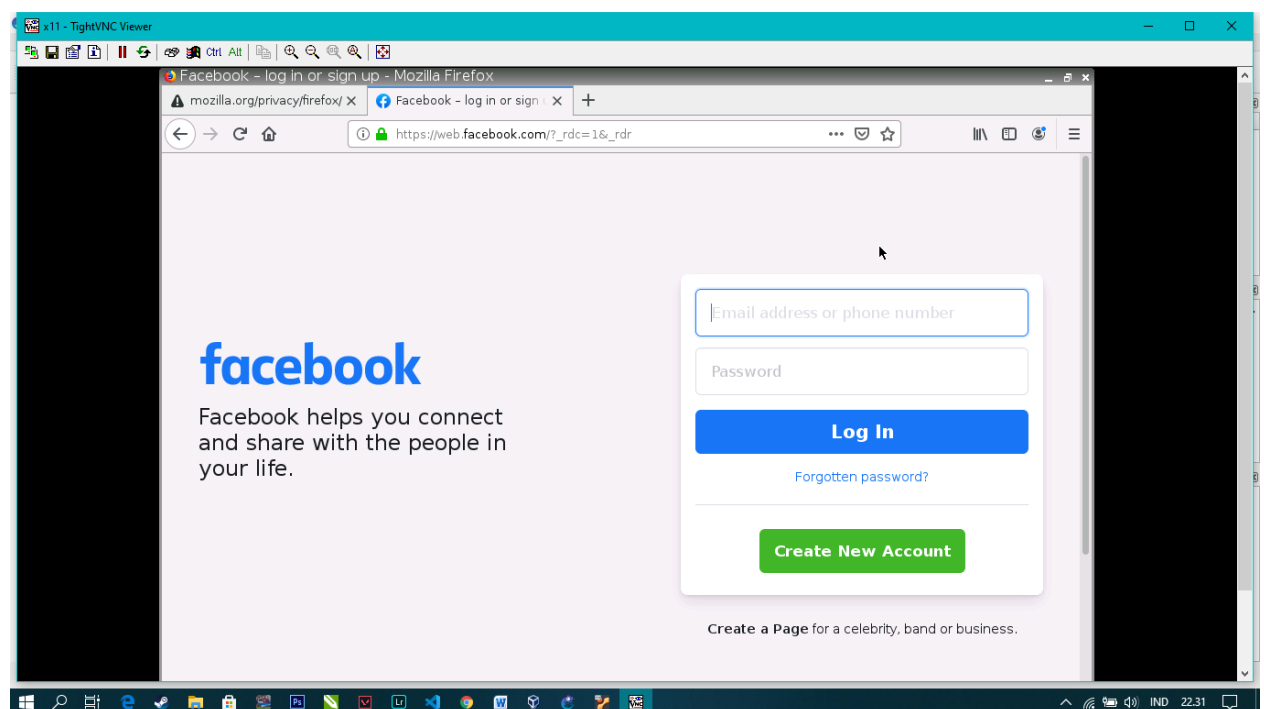
Untuk kesederhanaan, saklar ethernet bawaan akan terhubung ke node NAT, dan wadah Webterm akan terhubung ke saklar



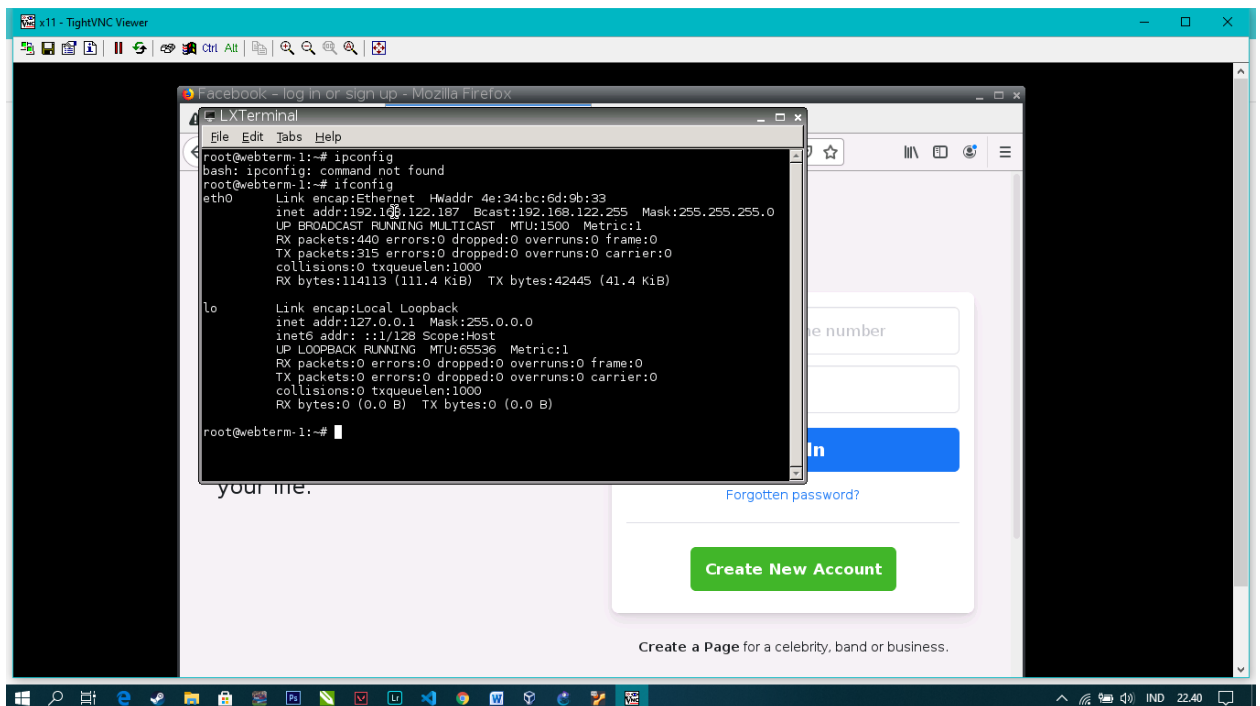
5. Untuk mengkonfigurasi wadah ini untuk menggunakan DHCP, Anda batalkan komentar pada dua baris yang ditunjukkan pada gambar di bawah ini, dan klik Simpan:
6. (batalkan komentar berarti menghilangkan simbol '#' di depan baris tersebut. Simbol tersebut menyebabkan sistem tidak membaca baris tersebut, dan biasanya digunakan untuk menambahkan komentar ke kode, yang seharusnya tidak diproses)



7. Mencoba membuka situs internet setelah mengedit config di webterm, ini hasil memakai DHCP



8. Mengganti ip



9. Ini hasil memakai cara Statik

