

Institut Universitaire des Sciences (IUS)

Faculte des sciences et technologies

Td2 - Reseau 2

Prepare par:

Nom: PIERRE

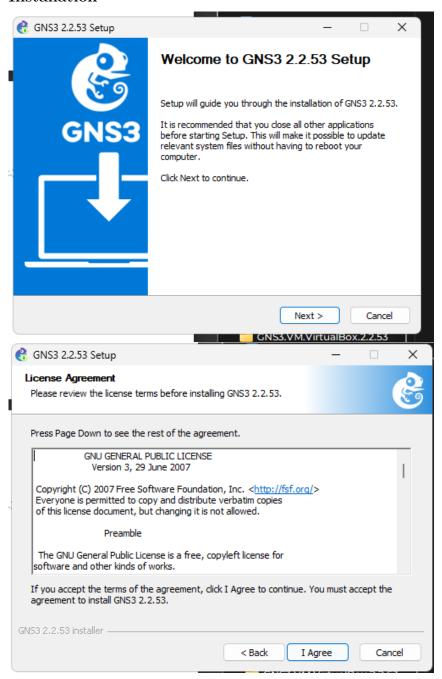
Prenom: Yann Lelay

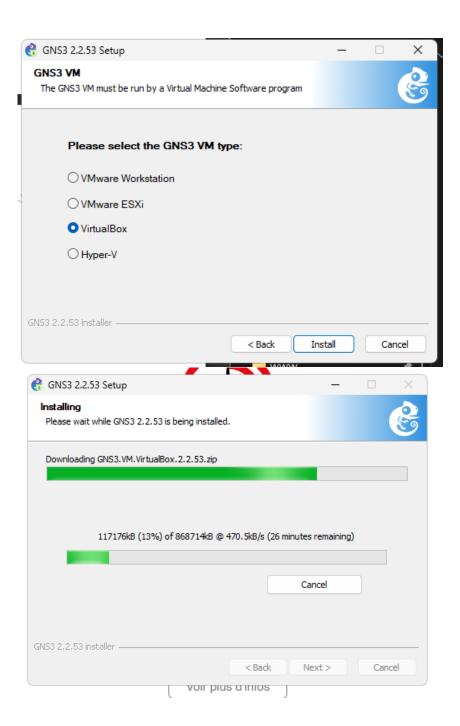
Niveau: L3-Sciences Informatiques

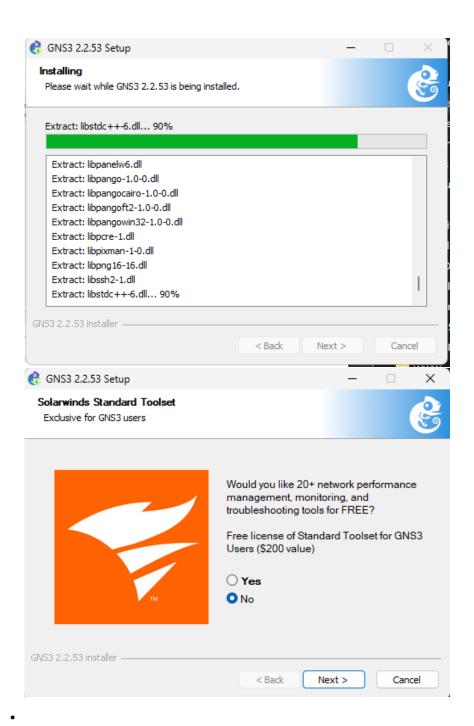
1. Installation et Importation Gns3 dans une machine Virtuelle (VMware Workstation):

•

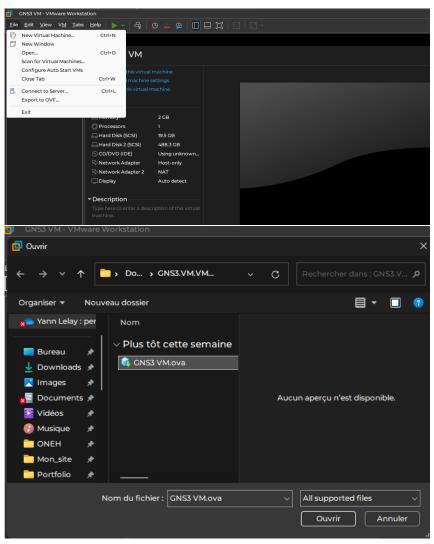
Installation







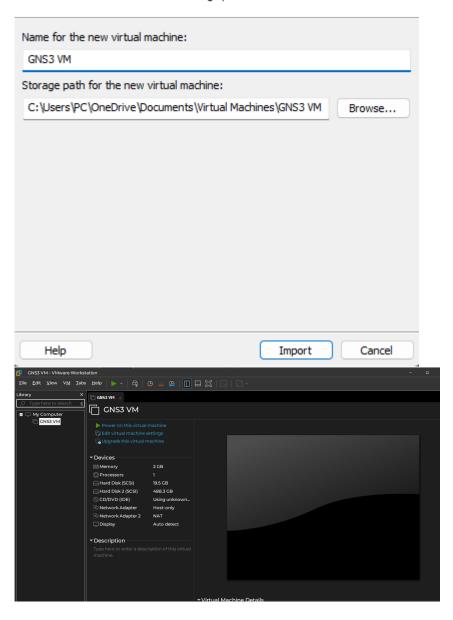
Importation



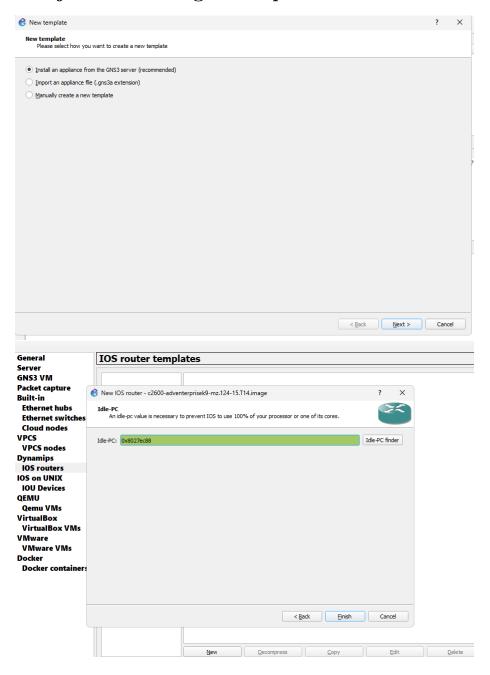


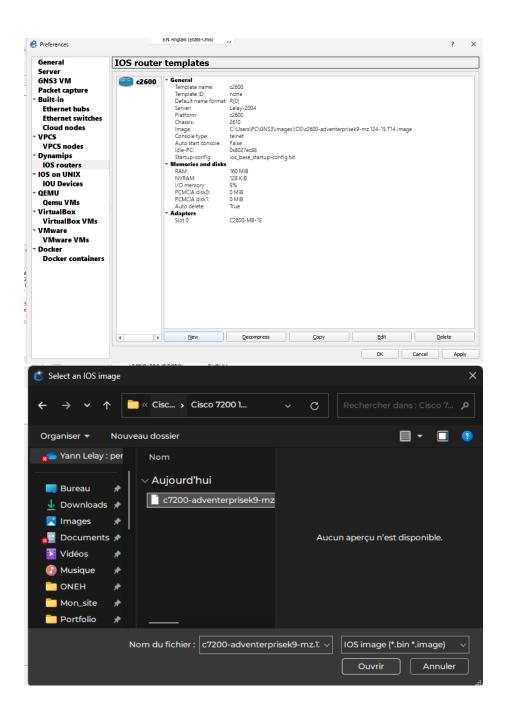
Store the new Virtual Machine

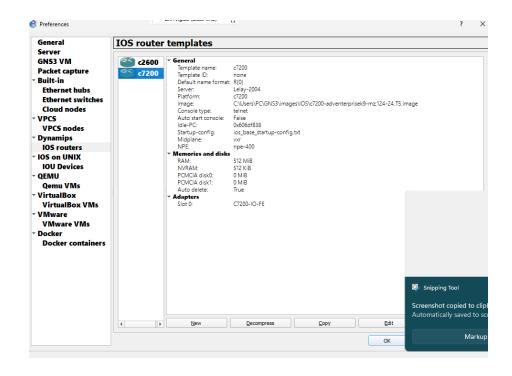
Provide a name and local storage path for the new virtual machine.



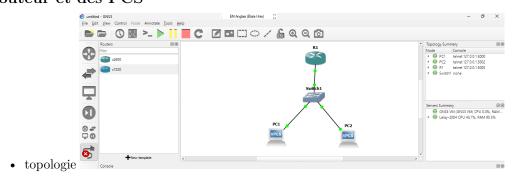
2. Ajouter des images ISO pour les routeurs







3. Reproduction de la topologie et la configuration du routeur et des PCS



```
R1#
R1#enable
R1#config | R1#c
```

- Configuration Routeur
- configuration des PCS

```
PC1> ip 192.168.1.2 255.255.255.0 192.168.1.1
Checking for duplicate address...
PC1: 192.168.1.2 255.255.255.0 gateway 192.168.1.1

PC1> show ip

NAME : PC1[1]
IP/MASK : 192.168.1.2/24
GATEWAY : 192.168.1.1
DNS :
MAC : 00:50:79:66:68:00
LPORT : 10010
RHOST:PORT : 127.0.0.1:10011
MTU: : 1500

PC1>
```

1. PC1

```
PC2> ip 192.168.1.3 255.255.255.0 192.168.1.1
Checking for duplicate address...
PC1 : 192.168.1.3 255.255.255.0 gateway 192.168.1.1

PC2> show ip

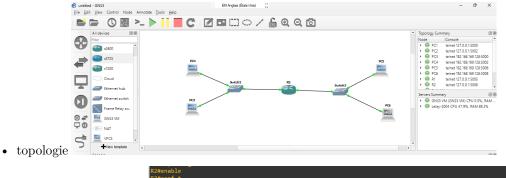
NAME : PC2[1]
IP/MASK : 192.168.1.3/24
GATEWAY : 192.168.1.1
DNS :
MAC : 00:50:79:66:68:01
LPORT : 10008
RHOST:PORT : 127.0.0.1:10009
HTU: : 1500
```

2. PC2

```
PC2> ping 192.168.1.2
84 bytes from 192.168.1.2 icmp_seq=1 ttl=64 time=5.932 ms
84 bytes from 192.168.1.2 icmp_seq=2 ttl=64 time=0.902 ms
84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=0.759 ms
84 bytes from 192.168.1.2 icmp_seq=4 ttl=64 time=0.887 ms
84 bytes from 192.168.1.2 icmp_seq=5 ttl=64 time=0.808 ms
```

• Test de la connexion

4. Reproduction de la topologie et la configuration du routeur et des PCS



RZBenible
RZBenible
RZBenible
RZBenible
RZBenible
RZConfigp#interface f0/0
RZ(configp.#interface f0/0
RZ(configp.#interface f0/0
RZ(config.if)spi address 192.168.1.20 255.255.255.0
RZ(config.-if)sens shutdown
RZ(config-if)sens
Nar 1 80:80:22.3.067: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
Nar 1 80:80:22.3.067: %LINK-S-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
RZ(config.-if)sexit
RZ(config.-if)sexit
RZ(config.-if)spi address 192.168.1.21 255.255.255.0
RZ(config.-if)spi address 192.168.1.21 255.255.255.0
RZ(config.-if)spi address 192.168.1.21 255.255.255.0
RZ(config.-if)spi address 192.168.1.21 256.255.255.0
RZ(config.-if)spi address 192.168.1.21 256.255.255.0
RZ(config.-if)spi shutdown
RZ(c

- Configuration Routeur
- configuration des PCS

```
PC3> ip 192.168.1.23 255.255.255.0 192.168.1.20
Checking for duplicate address...
PC3: 192.168.1.23 255.255.255.0 gateway 192.168.1.20

PC3> show ip

NAME : PC3[1]
IP/MASK : 192.168.1.23/24
GATEWAY : 192.168.1.20
DNS :
MAC : 00:50:79:66:68:00
LPORT : 20010
RHOST:PORT : 127.0.0.1:20011
MTU : 1500

PC3> 1. PC3
```

```
PC4> ip 192.168.1.22 255.255.255.0 192.168.1.20
Checking for duplicate address...
PC4 : 192.168.1.22 255.255.255.0 gateway 192.168.1.20
                        PC4> show ip
                       NAME : PC4[1]
IP/MASK : 192.168.1.22/24
GATENAY : 192.168.1.20
DNS :
MAC : 00:50:79:66:68:01
LPORT : 20012
RHOST:PORT : 127.0.0.1:20013
MTU : 1500
                        PC4>
2. PC4
                       PC5> ip 192.168.1.24 255.255.255.0 192.168.1.21
Checking for duplicate address...
PC5 : 192.168.1.24 255.255.255.0 gateway 192.168.1.21
                       NAME : PC5[1]
IP/MASK : 192.168.1.24/24
GATEWAY : 192.168.1.21
DNS :
MAC : 00:50:79:66:68:02
LPORT : 20014
RHOST:PORT : 127.0.0.1:20015
MTU : 1500
                        PC5>
3. PC5
                         PC6> ip 192.168.1.25 255.255.255.0 192.168.1.21
Checking for duplicate address...
PC6 : 192.168.1.25 255.255.255.0 gateway 192.168.1.21
                                                        : PC6[1]
: 192.168.1.25/24
: 192.168.1.21
                          GATEWAY
DNS
MAC
                          MAC : 00:50:79:66:68:03
LPORT : 20016
RHOST:PORT : 127.0.0.1:20017
MTU : 1500
                         PC6>
4. PC6
```

Conclusion:

Grace a ce td j'arrive par installer GNS3 et l'importer sur une marchine virtuelle (VMware Workstation). Ensuite Faire des ajouts des images de routeurs Cisco . Enfin faire des simulations avec des topologies en configurant des routeurs et des PCS. Ce td me plonge dans une belle aventure avec GNS3.