

FACULTÉ DES SCIENCES ET DES TECHNOLOGIES

(FST)

Troisième année

RAPPORT

Sur le Travail de Laboratoire N°2

COURS

Réseaux 2

PROFESSEUR

Ismael SAINT AMOUR

PRÉPARÉ PAR

Peterson CHERY

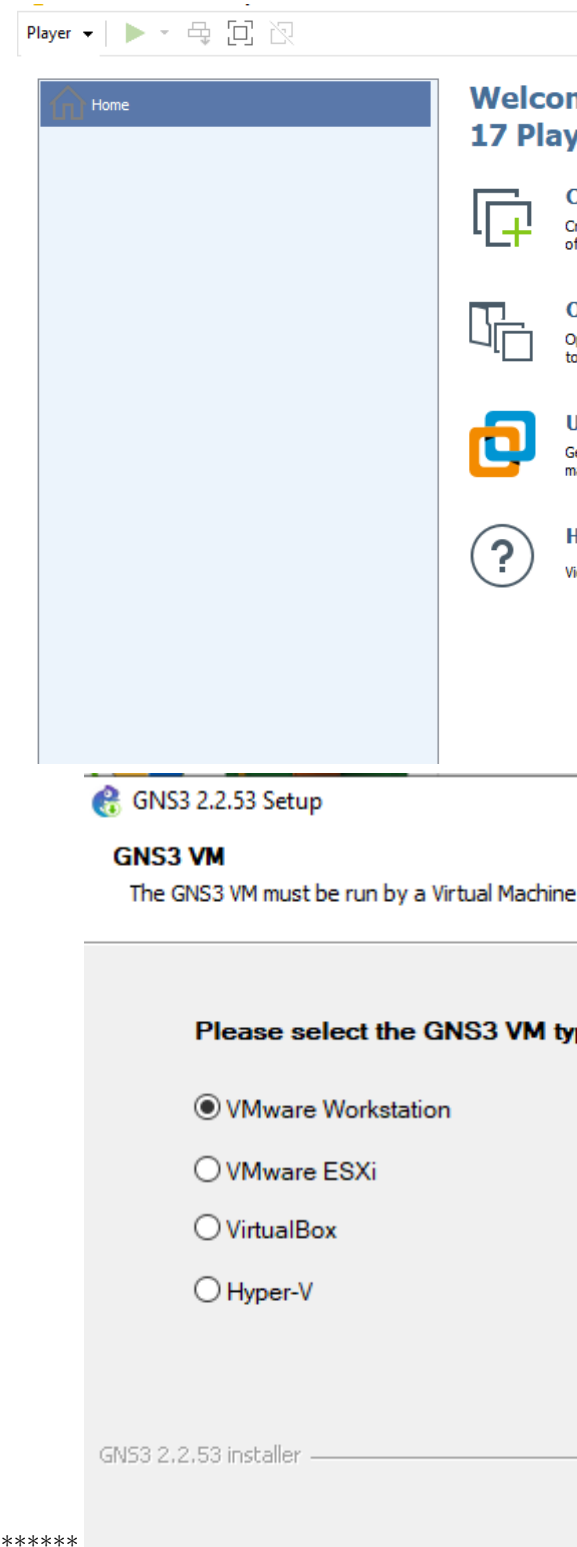
SEMESTRE

II

Le 28/03/2025



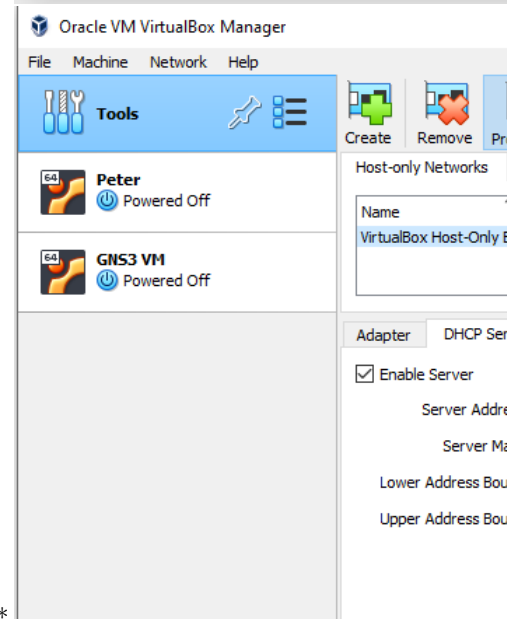
1) Installation et importation GNS3 dans VirtualBox.



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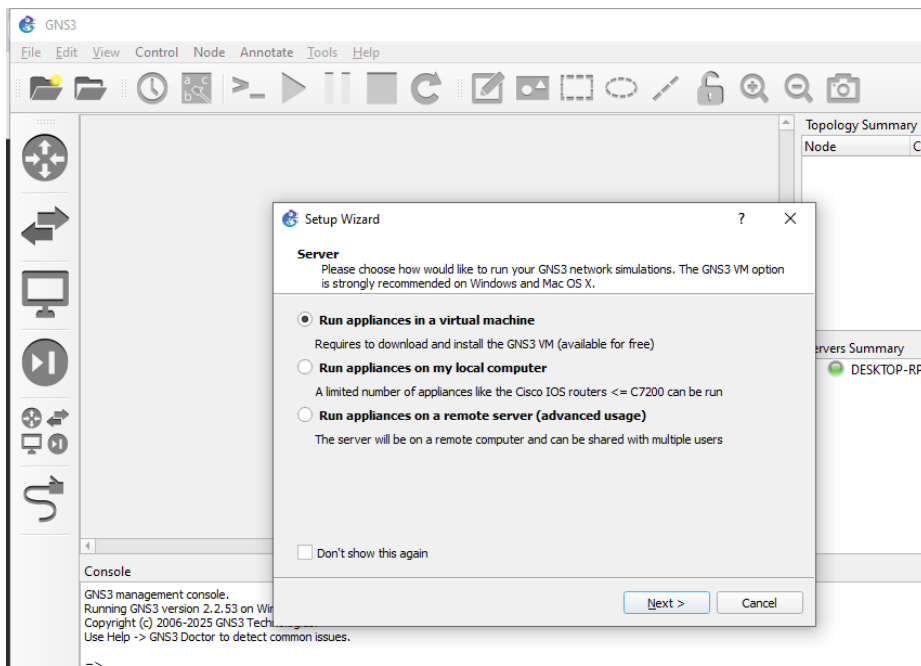
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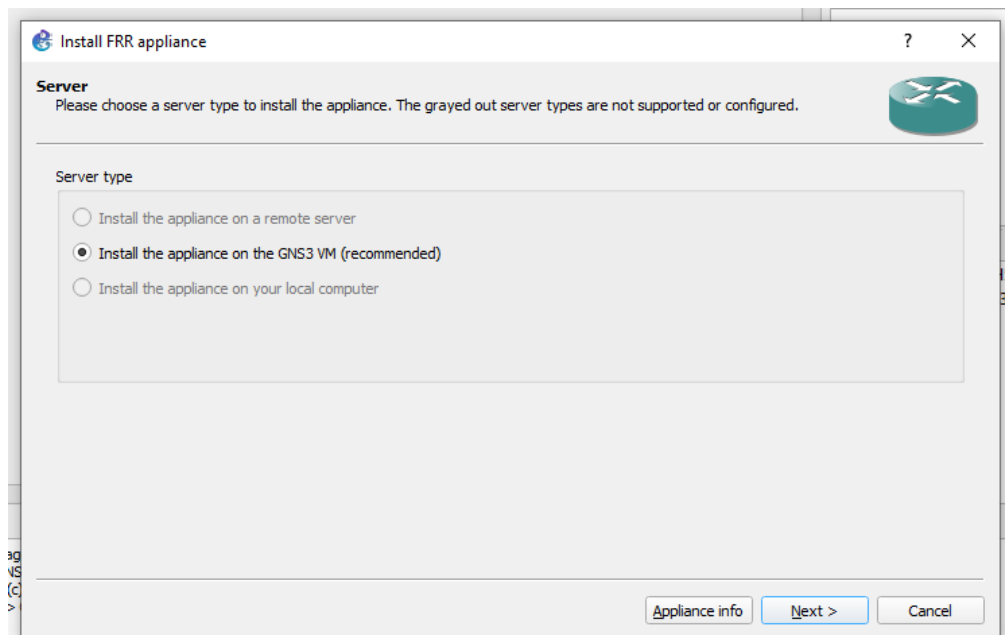
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#### Importation du routeur



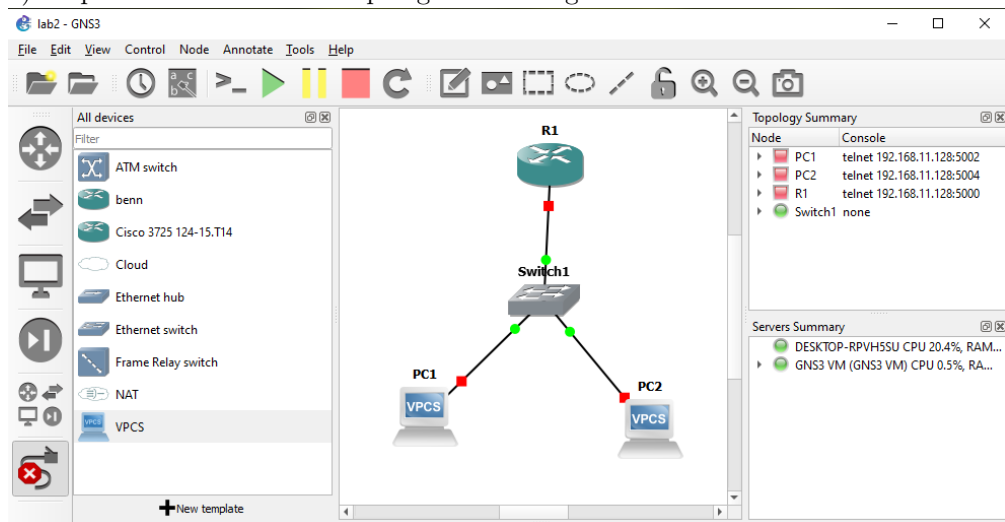




the vmrun tool could not be found, VMware or the VIX API (required for VMware player) is probably not installed. You can download it from <https://customer.cisco.com/...>

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2) Reproduction de cette topologie en configurant le routeur et les PC.





```

R1#en
R1#conf t
Enter configuration commands, one per line
R1(config)#hostname R1
R1(config)#int f0/0
R1(config-if)#ip address 192.168.1.1 255.
R1(config-if)#no sh
R1(config-if)#exit
*Mar  1 00:01:29.779: %LINK-3-UPDOWN: Int
o up
*Mar  1 00:01:30.779: %LINEPROTO-5-UPDOWN
et0/0, changed state to up
R1(config-if)#exit
R1(config)#wr
% Incomplete command.

R1(config)#write memory
      ^
% Invalid input detected at '^' marker.

R1(config)#exit
R1#conf t
*Mar  1 00:02:02.475: %SYS-5-CONFIG_I: Co
R1#wr
Building configuration...
[OK]
R1#show ip interface brief
Interface                IP-Address
ocol
FastEthernet0/0          192.168.1.1
FastEthernet0/1          unassigned

```

\*\*\*\*\* R1#

\*\*\*\*\*

```
PC2 - PuTTY

PC2> ip 192.168.1.3 255.255.255.0
Checking for duplicate address...
PC2 : 192.168.1.3 255.255.255.0 g

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      : 20010
RHOST:PORT  : 127.0.0.1:20011
MTU         : 1500

PC2> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_se
84 bytes from 192.168.1.1 icmp_se
84 bytes from 192.168.1.1 icmp_se
84 bytes from 192.168.1.1 icmp_se
84 bytes from 192.168.1.1 icmp_se

PC2> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_se
84 bytes from 192.168.1.2 icmp_se
84 bytes from 192.168.1.2 icmp_se
84 bytes from 192.168.1.2 icmp_se
84 bytes from 192.168.1.2 icmp_se

PC2> █
```

```
PC1 - PuTTY

PC1> ip 192.168.1.2 255.255.255.0
Checking for duplicate address
PC1 : 192.168.1.2 255.255.255.0

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      : 20008
RHOST:PORT  : 127.0.0.1:20009
MTU         : 1500

PC1> ping 192.168.1.1

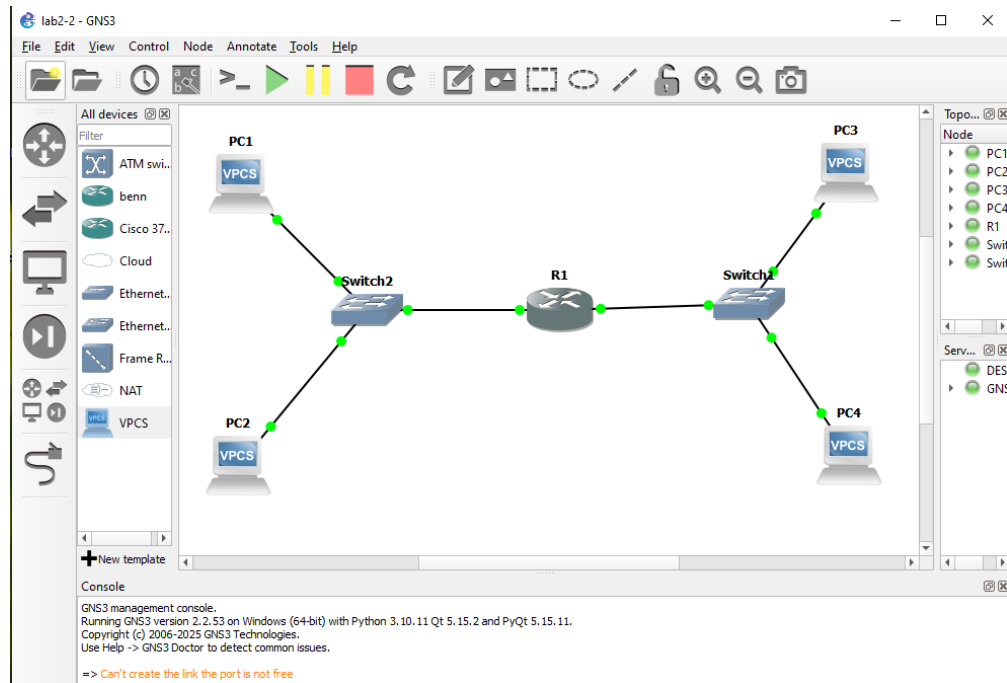
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1

PC1> ping 192.168.1.3

84 bytes from 192.168.1.3 icmp: 192.168.1.3
84 bytes from 192.168.1.3 icmp: 192.168.1.3
84 bytes from 192.168.1.3 icmp: 192.168.1.3
84 bytes from 192.168.1.3 icmp: 192.168.1.3
84 bytes from 192.168.1.3 icmp: 192.168.1.3

PC1> █
```

```
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***** #####
2) Reproduction de la deuxieme topologie en configurant le routeur et les PC.
```




```
R1#en
R1#conf t
Enter configuration commands, one per line.
R1(config)#int f0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no sh
R1(config-if)#exit
R1(config)#
*Mar 1 00:16:39.775: %LINK-3-UPDOWN: Interface f0/0, changed state to up
*Mar 1 00:16:40.775: %LINEPROTO-5-UPDOWN: Line protocol is down
R1(config)#show ip
% Invalid input detected at '^' marker.

R1(config)#exit
R1#
*Mar 1 00:16:50.059: %SYS-5-CONFIG_I: Configured from console by admin
R1#show ip
% Incomplete command.

R1#show ip interface brief
Interface                                IP-Address      Status         VRF
-----                                -
FastEthernet0/0                          192.168.1.1     up             default
FastEthernet0/1                          unassigned      down           default

R1#
```

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 PC1 - PuTTY

```
Welcome to Virtual PC Simulator, version 1.0.0
Dedicated to Daling.
Build time: Sep  9 2023 11:15:00
Copyright (c) 2007-2015, Paul Meng (paulmeng@gmail.com)
All rights reserved.
```

```
VPCS is free software, distributed under the MIT license.
Source code and license can be found at https://github.com/paulmeng/vpcs
For more information, please visit https://vpcs.org
```


```
Press '?' to get help.
```

```
Executing the startup file
```

```
PC1>
```

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

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 PC2 - PuTTY

```
VPCS is free software, distributed under the MIT license.
Source code and license can be found at https://github.com/paulmeng/vpcs
For more information, please visit https://vpcs.org
```

```
Press '?' to get help.
```

```
Executing the startup file
```

```
PC2> ip 192.168.1.2 255.255.255.0 192.168.1.2
Checking for duplicate address...
192.168.1.2 is being used by MAC 00:50:56:00:00:00
Address not changed
```

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

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```
PC3 - PuTTY
For more information, please v
Press '?' to get help.
Executing the startup file

PC3> ip 192.168.1.2 255.255.255.0
Checking for duplicate address...
PC3 : 192.168.1.2 255.255.255.0

PC3> ip 192.168.1.4 255.255.255.0
Checking for duplicate address...
PC3 : 192.168.1.4 255.255.255.0

PC3> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
```

```
PC4 - PuTTY
ip 192.168.1.5 255.255.255.0 192.168.1.5
Checking for duplicate address...
PC4 : 192.168.1.5 255.255.255.0 g

PC4> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1
84 bytes from 192.168.1.1 icmp: 192.168.1.1

PC4>
PC4> █
```

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\*\*\*\*\* ##### En  
Conclusion: J'ai appris les compétences nécessaires pour Installer et Configurer  
GN3, puis l'importer dans VMware et importer aussi un routeur dans GN3.