

Melbourne Institute of Technology
Sydney

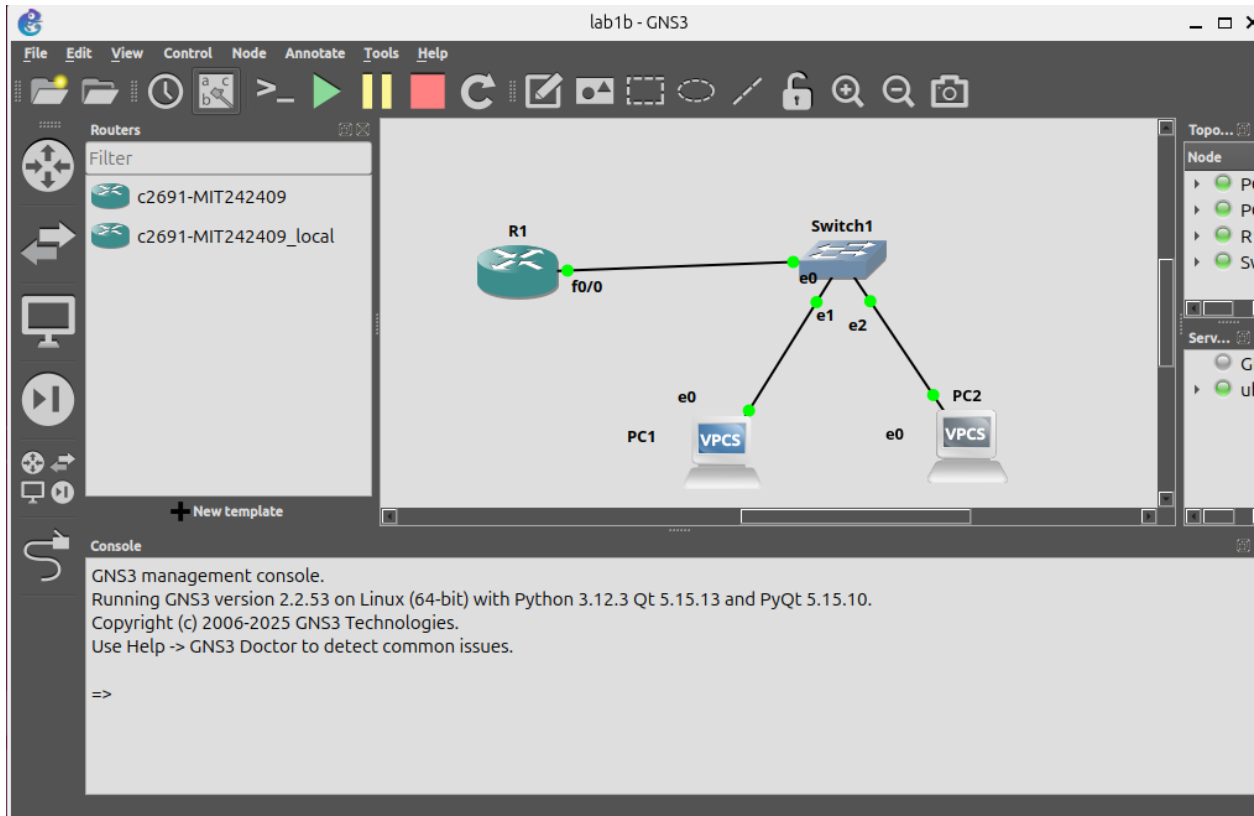
MN521
Network Automation

Lab 01

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1. Network Testing after installing GNS3 in Ubuntu

a. Network Setup



b. Router IP Configuration

```
R1
Ethernet0/1, changed state to down
R1#
R1#en
R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#int fa0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exi
*Mar  1 00:01:46.663: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed s
tate to up
*Mar  1 00:01:47.663: %LINEPROTO-5-UPDOWN: Line protocol on Interface Fast
Ethernet0/0, changed state to up
R1(config-if)#exit
R1(config)#exit
R1#wr
Building configuration...

*Mar  1 00:01:54.423: %SYS-5-CONFIG_I: Configured from console by console[
OK]
R1#
```

c. Configuring IP and Default gateway in PC1

```
PC1
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.

PC1> ip 192.168.1.2/24 192.168.1.1
Checking for duplicate address...
PC1 : 192.168.1.2 255.255.255.0 gateway 192.168.1.1

PC1> ip 192.168.1.2/24 192.168.1.1
```

d. Configuring IP and Default gateway on PC2

```
PC2> ip 192.168.1.3/24 192.168.1.1
Checking for duplicate address...
PC2 : 192.168.1.3 255.255.255.0 gateway 192.168.1.1
```

e. Connectivity of PC1 from PC2

```
PC2> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_seq=1 ttl=64 time=3.807 ms
84 bytes from 192.168.1.2 icmp_seq=2 ttl=64 time=1.088 ms
84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=1.256 ms
84 bytes from 192.168.1.2 icmp_seq=4 ttl=64 time=0.600 ms
84 bytes from 192.168.1.2 icmp_seq=5 ttl=64 time=1.064 ms
```

f. Connectivity of Router1 from PC2

```
PC2> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=255 time=21.594 ms
84 bytes from 192.168.1.1 icmp_seq=2 ttl=255 time=10.550 ms
84 bytes from 192.168.1.1 icmp_seq=3 ttl=255 time=6.603 ms
84 bytes from 192.168.1.1 icmp_seq=4 ttl=255 time=2.383 ms
84 bytes from 192.168.1.1 icmp_seq=5 ttl=255 time=1.422 ms
```