How to Remote Login to GNS3 Router with Telnet

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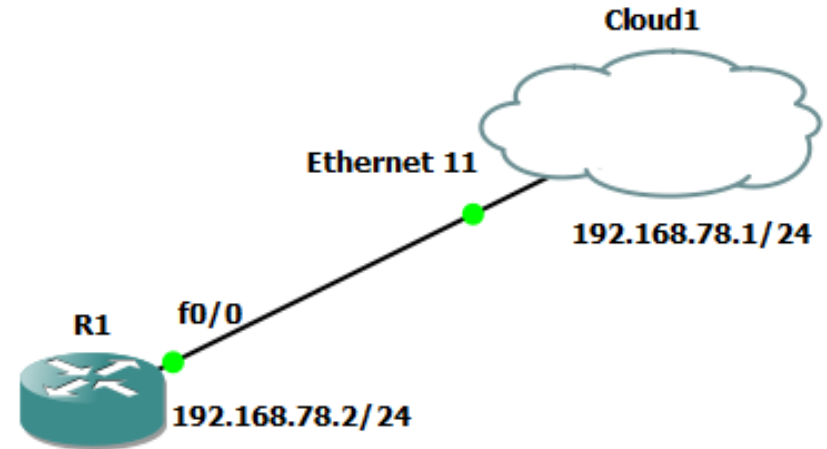
Network programming

GNS3

In GNS3 router, follow the Steps
Click to [To configure and connect to GNS3 router](#)

Cloud1

Ethernet 11

192.168.78.1/24

f0/0

R1

192.168.78.2/24

Step 1: Configuring the management ip

```
R1# conf ter
R1(config)# interface fastethernet0/0
R1(config-if)# ip address 192.168.78.2 255.255.255.0        # management ip
R1(config-if)# no shutdown
R1(config-if)# end
```

Step 2: Enabling telnet and configuring telnet password

```
R1# conf ter
R1(config)#line vty 0 4
R1(config-line)#password sai          # 'sai' as password
R1(config-line)#login
R1(config-line)#end
```

Step 3: Configuring enable password

```
R1# conf terminal
R1(config)#enable password sai          # 'sai' as enable password
R1(config-line)#end
```

In step 1:

In the Step 1, configure the management IP address (in your case if interface is different then go to that interface and then provide IP address) should be local area network so that you are able to access GNS3 Router

First Make Sure you are able to connect to GNS3 Router using ping utility

```
C:\Users\kumar2n>ping 192.168.78.2

Pinging 192.168.78.2 with 32 bytes of data:
Reply from 192.168.78.2: bytes=32 time=11ms TTL=255
Reply from 192.168.78.2: bytes=32 time=12ms TTL=255
Reply from 192.168.78.2: bytes=32 time=10ms TTL=255
Reply from 192.168.78.2: bytes=32 time=4ms TTL=255
```

Now Verify Telnet to GNS3 Router Manually

Command Prompt

```
C:\Users\kumar2n>telnet 192.168.78.2
```

Now Verify Telnet to GNS3 Router Manually

```
User Access Verification

Password:
R1>enable
Password:
R1#
```

How to Remote Login to GNS3 Router with Telnet using Python

Now Verify Telnet to GNS3 Router with python

Note: Following Script based on Python3

import telnetlib

Import the telnetlib. This library by default installed. If not installed install it using
pip install telnetlib

Talent using python

```python
import telnetlib # --<< importing telnet library
user = "admin"   #--<< username configured in router
password = "123" #--<<Password configured in router
HOST = "192.168.1.30" #--<<IP address of the router
telnet = telnetlib.Telnet(HOST)
telnet.read_until("Username: ") # --<<Reading username from the router CLI screen
telnet.write(user.encode('ascii') + b"\n") #--<< Configure username which is configured above
telnet.read_until("Password: ") #--<<Reading Password from the router CLI screen
telnet.write(password .encode('ascii') + b"\n") #--<< Configure password which is configured above
print("You are connected to {}".format(HOST))
telnet.write(b"show version \n")  #--<<configure  show run
telnet.write(b"exit\n")  # --<<exit from the router
print telnet.read_all()  #-<<Read output from above show version command
```

THANKS