

# **Program 16: Configure VPN using Packet Tracer/GNS3**

**Components needed is**

**1 router (2911)**

**1 switch**

**3 servers**

**1 PC**

**Steps:**

- 1. Connect all the devices and rename the server name as**

**File server**

**Web server**

**Mail server**

- 2. Connectivity**

Connect Servers to switch

Connect the routers to the switch

Connect the PC to router

**On the server**

**Click on desktop-→ip configuration**

**File Server: IP address: 172.16.1.10**  
**Default Gateway: 172.16.1.1**

**Web Server: IP address: 172.16.1.11**  
**Default Gateway: 172.16.1.1**

**Mail Server: IP address: 172.16.1.12**  
**Default Gateway: 172.16.1.1**

**And router as 10.10.10.11 (Click on router->Config-> Gigabit Ethernet 0/0 –ON- Specify IPv4 address as 10.10.10.11)**

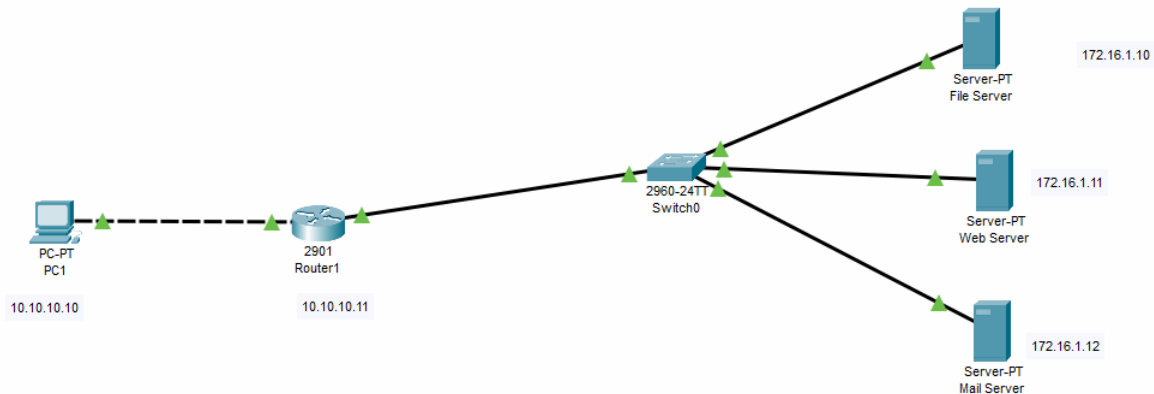
**Click on Gigabit Ethernet 0/1 -> Click on ON**

**Set the IP to the pc as 10.10.10.10**

**Select PC-> Ipconfig -> IP address as 10.10.10.10**

**Default Gateway is router address that is 10.10.10.11**

**The Final Setup of Topology:**



**Assign IP (172.16.1.1) to the router**

**Follow the steps**

**Click on the router**

**Select →CLI→ Press return**

Type enable (Enabling the router)

Type configure terminal

Type interface GigabitEthernet 0/0

Type ip address 172.16.1.1 255.255.255.0

Type noshutdown

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet 0/0
Router(config-if)#ip address 172.16.1.1 255.255.255.0
Router(config-if)#no shutdown
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#no shutdown
      ^
% Invalid input detected at '^' marker.

Router#noshutdown
Translating "noshutdown"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer
address

Router#
```

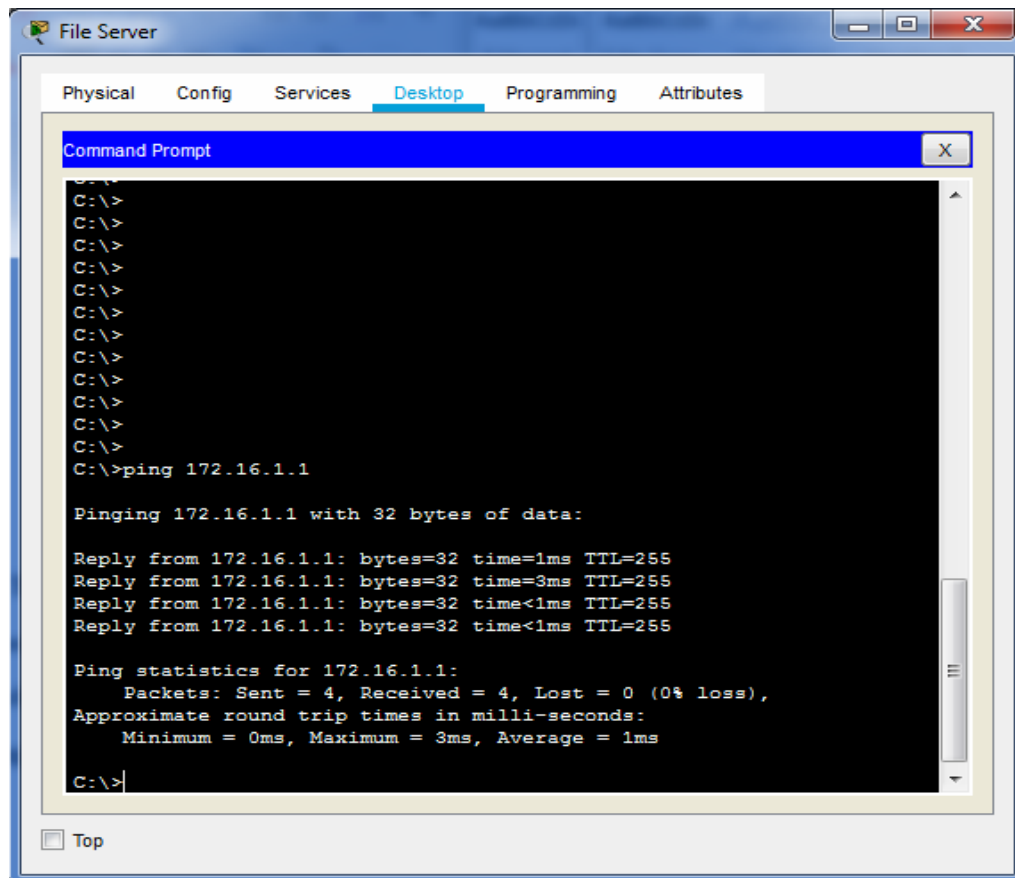
## **OUTPUT:**

**Check the working condition from each server to gateway as**

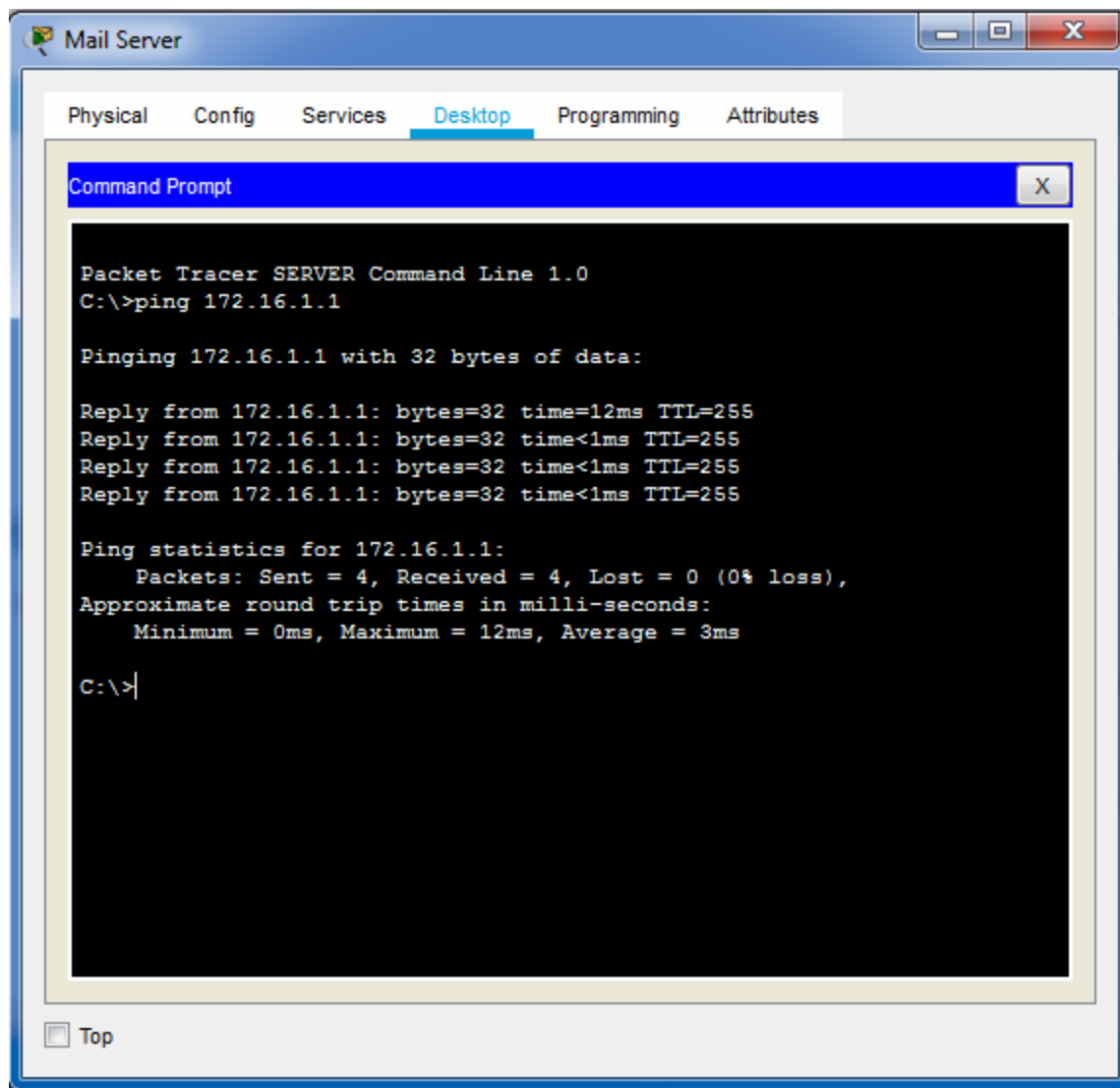
**Click on File Server -> Desktop -> Command Prompt**

**Ping to the Default Gateway 172.16.1.1**

**From File Server**



**From Mail Server**



**Ping from PC to Router**

