This chall is about network troubleshooting
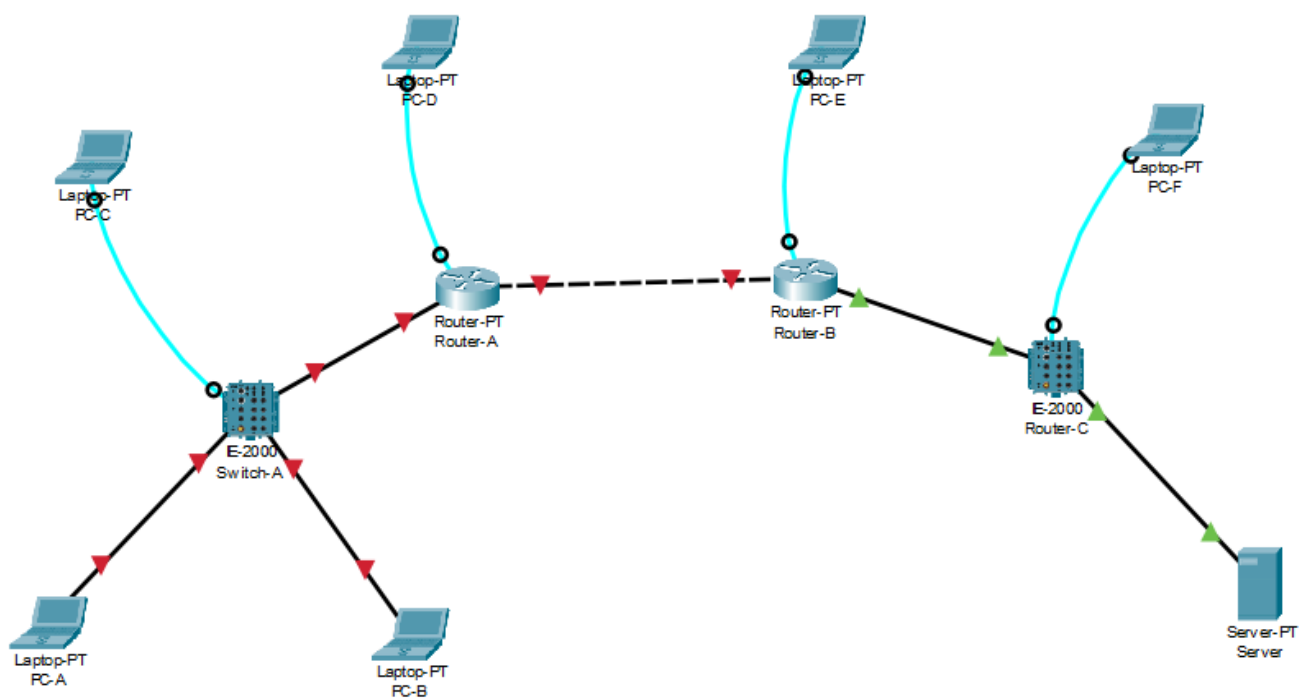
We have to access files in server PT from laptop A or B

PC-A

Physical	Config	Desktop	Programming	Attributes

IP Configuration

Interface   FastEthernet0

IP Configuration

○ DHCP   ◉ Static

IPv4 Address	178.34.23.9
Subnet Mask	255.255.0.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

PC-B

Physical	Config	Desktop	Programming	Attributes

IP Configuration

Interface   FastEthernet0

IP Configuration

○ DHCP   ◉ Static

IPv4 Address	
Subnet Mask	
Default Gateway	142.72.23.3
DNS Server	0.0.0.0

We get the IP of PC-A and Default gate add from PC-B

```
└─$ nc chals2.apoorvctf.xyz 3000
Welcome to Network Troubleshooting Simulation!
Type '?' or 'help' for available commands

Available devices:
1. PCA
2. PCB
3. PCC
4. PCD
5. PCE
6. PCF
7. Exit

Select device (1-7): 1
1

PCA> ?
?

Available commands:
  ping <ip>
  ftp <ip>
  ipconfig
  ipconfig <ip> <mask> <gateway>
  traceroute <ip>
  arp -a
  cat <filename>
  netstat
  nslookup
  dir
  exit

PCA> ipconfig 178.34.39.9 255.255.0.0 142.72.23.3
ipconfig 178.34.39.9 255.255.0.0 142.72.23.3
IP configuration updated successfully

PCA> ipconfig
ipconfig

Ethernet adapter Local Area Connection:
    IP Address. . . . . . . . . . : 178.34.39.9
    Subnet Mask . . . . . . . . . : 255.255.0.0
    Default Gateway . . . . . . . : 142.72.23.3
```

Based on the info we configure the PC-A with the default gateway.

```
switchA# show interfaces
show interfaces

Interface Status:
fa0/1 is down, connected to None
fa0/2 is down, connected to None
fa0/4 is down, connected to None
fa0/5 is down, connected to None
fa1/4 is down, connected to PCA
fa1/6 is down, connected to PCB
fa1/7 is up, connected to RouterA
gi0/1 is down, connected to None
gi0/2 is down, connected to None
```

Here the interface is down for PC-A used no shutdown

```
switchA(config-if-fa1/4)# ?
?

Interface configuration commands:
  no shutdown
  shutdown
  switchport mode
  switchport access vlan
  description
  exit
switchA(config-if-fa1/4)# no shutdown
no shutdown
Interface fa1/4 enabled
```

Later on routerA added static route so that packets can go from PC-A to main server

```
routerA(config)# ip route 192.168.1.0 255.255.255.0 192.168.1.10
ip route 192.168.1.0 255.255.255.0 192.168.1.10
Route added
```

```
routerA# show ip route
show ip route

IP routing table:
Codes: L - local, S - static

Gateway of last resort is not set

     Destination        Mask            Next Hop
S     192.168.1.0       255.255.255.0   192.168.1.10
```

```
routerA(config-if-fa1/0)# no shutdown
no shutdown
Interface fa1/0 enabled
```

```
routerB(config)# ip route 178.34.39.0 255.255.0.0 178.34.39.9
ip route 178.34.39.0 255.255.0.0 178.34.39.9
Route added
```

```
routerB# show ip route
show ip route

IP routing table:
Codes: L - local, S - static

Gateway of last resort is not set

     Destination          Mask                Next Hop
S    178.34.39.0          255.255.0.0         178.34.39.9
```

```
routerB(config-if-fa1/0)# no shutdown
no shutdown
Interface fa1/0 enabled
```

```
PCA> ping 192.168.1.10
ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:
Reply from 192.168.1.10: bytes=32 time=1ms TTL=64
Reply from 192.168.1.10: bytes=32 time=1ms TTL=64
Reply from 192.168.1.10: bytes=32 time=1ms TTL=64
Reply from 192.168.1.10: bytes=32 time=1ms TTL=64

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms
```

It works

While checking services, got 2 id and pass in FTP:
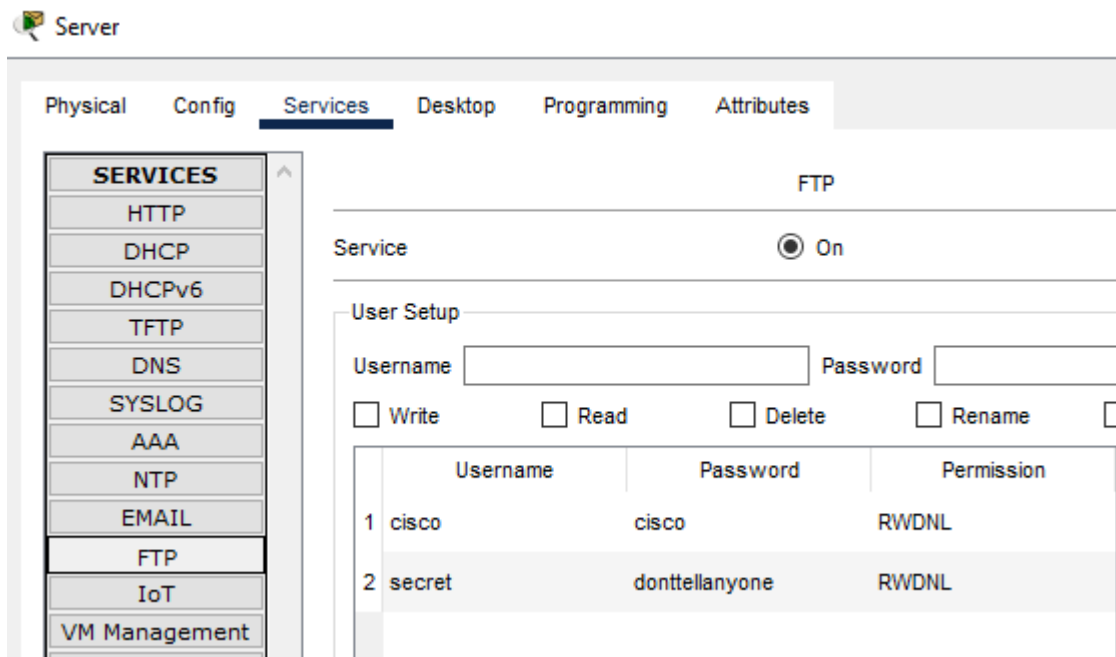

```
PCA> ftp 192.168.1.5
ftp 192.168.1.5
Connected to 192.168.1.5
220 FTP server ready
Name: secret
secret
Password: donttellanyone
donttellanyone
230 Login successful
```

```
ftp> ls
ls
 Directory listing of /
drwxr-xr-x    2 ftp        ftp            4096 Jul 25 14:49 .
drwxr-xr-x    2 ftp        ftp            4096 Jul 25 14:49 ..
-rw-r--r--    1 ftp        ftp              32 Jul 25 14:49 flag.txt
```

```
ftp> get flag.txt
get flag.txt
200 PORT command successful
150 Opening BINARY mode data connection for flag.txt
226 Transfer complete
Downloaded flag.txt
```

```
PCA> dir
dir
 Directory of C:\
flag.txt                    32 bytes
             1 File(s)          32 bytes

PCA> cat flag.txt
cat flag.txt
apoorvctf{N0bit4s_ju5t_un1ucky}
```

apoorvctf{N0bit4s_ju5t_un1ucky}