Avaliação 06 — Sistemas Operacionais de Redes 2
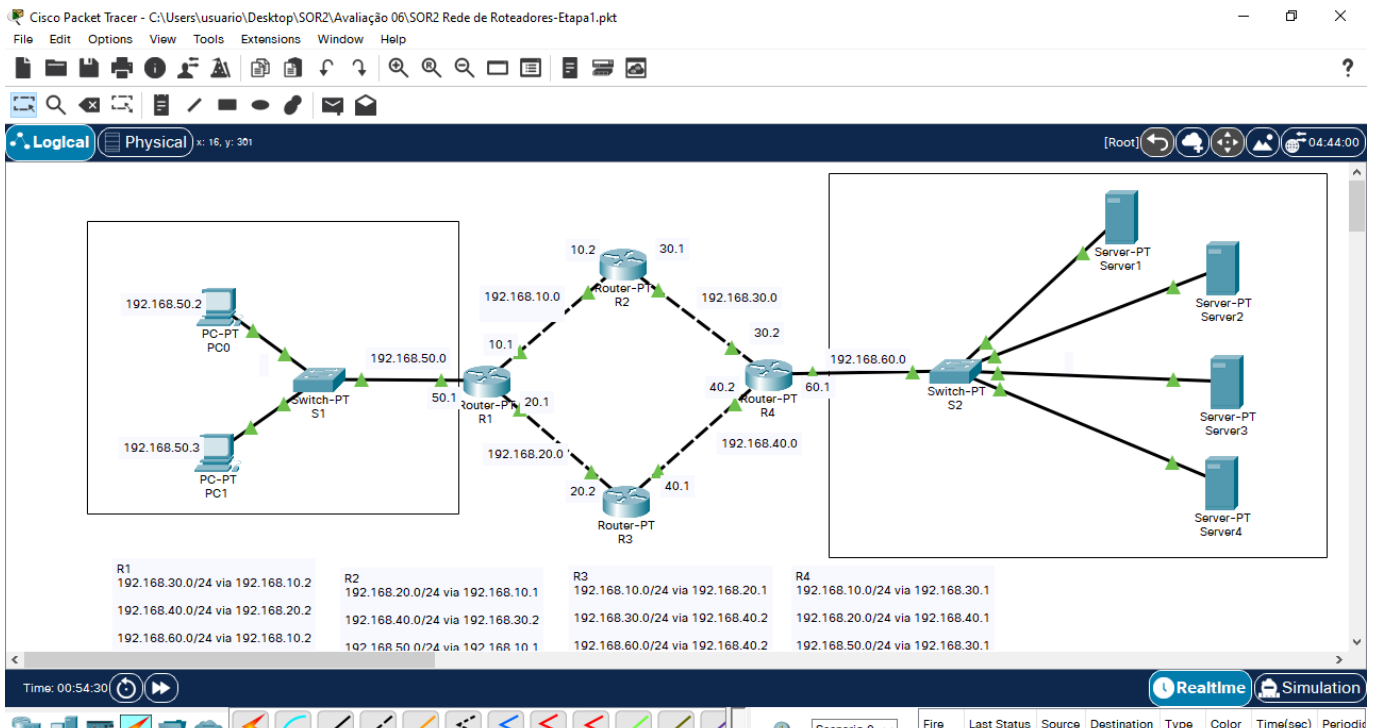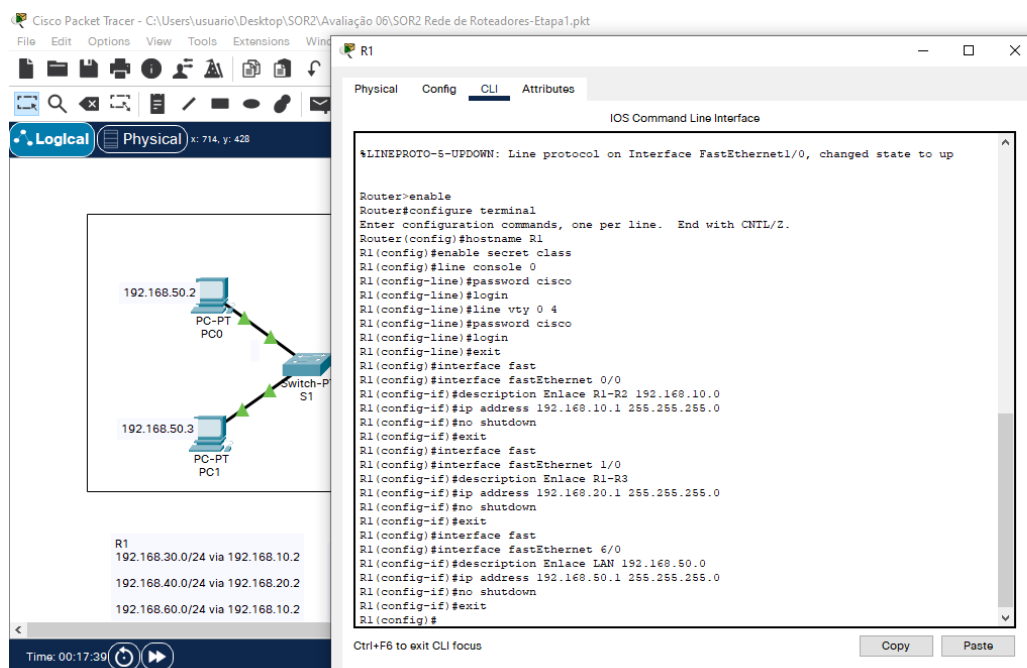
Paulo Victor Souza Rodrigues — P8 de Informática

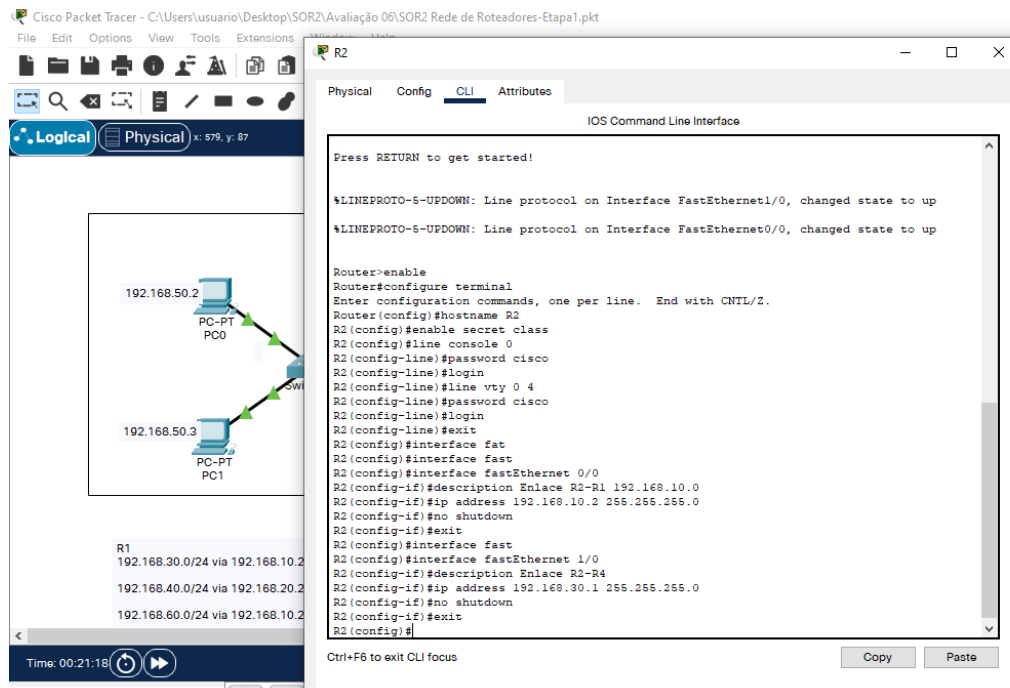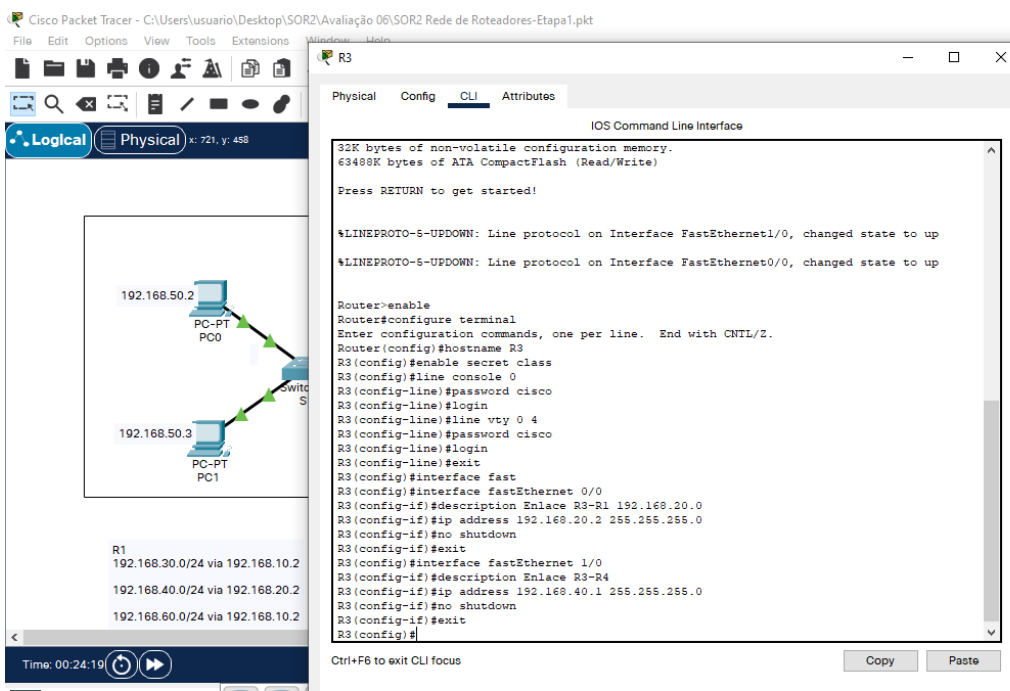## Etapa 1

Etapa 2

Configuração das interfaces do Roteador R1
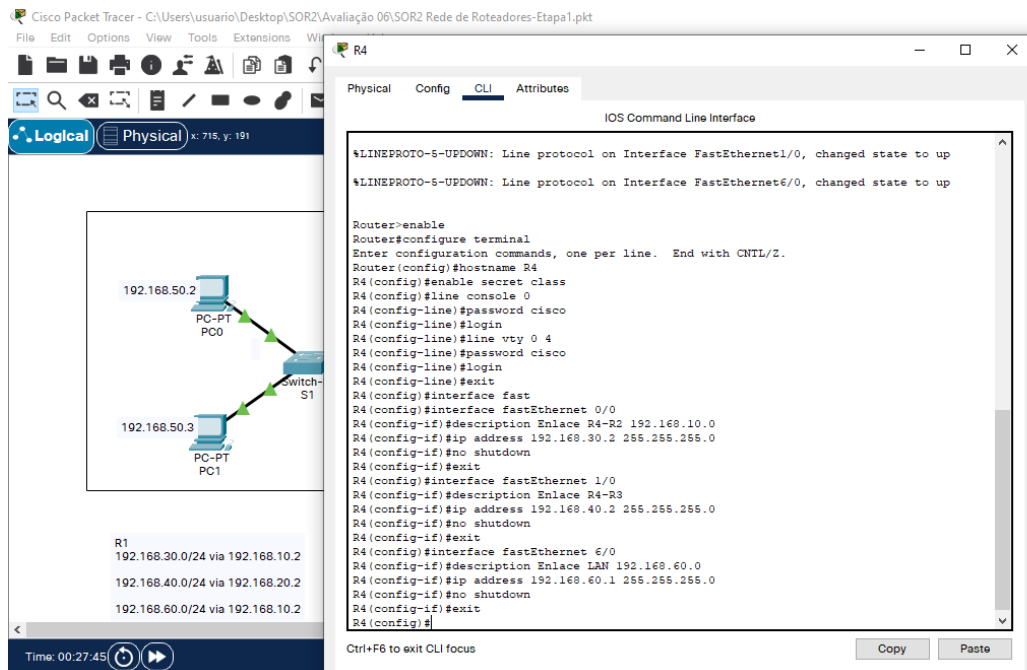

Configuração das interfaces do Roteador R2

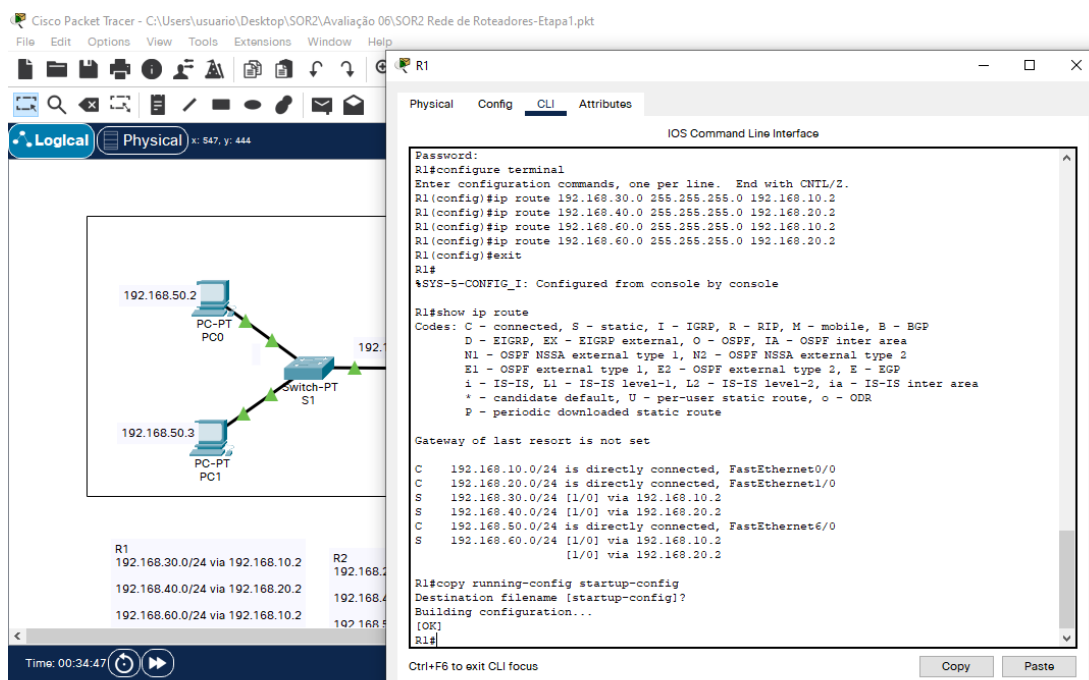## Configuração das interfaces do Roteador R3

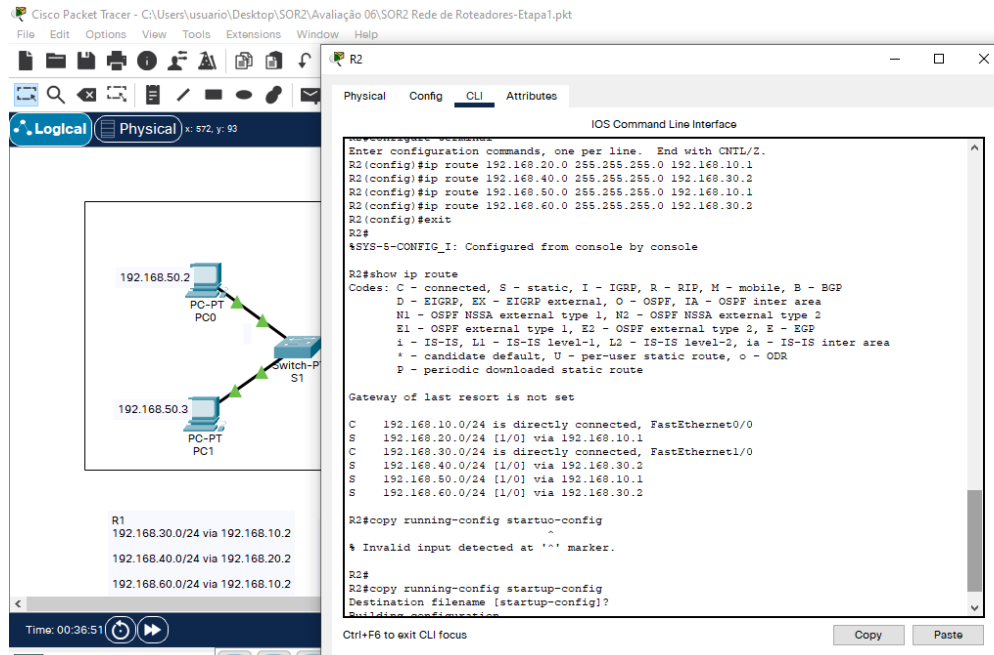## Configuração das interfaces do Roteador R4
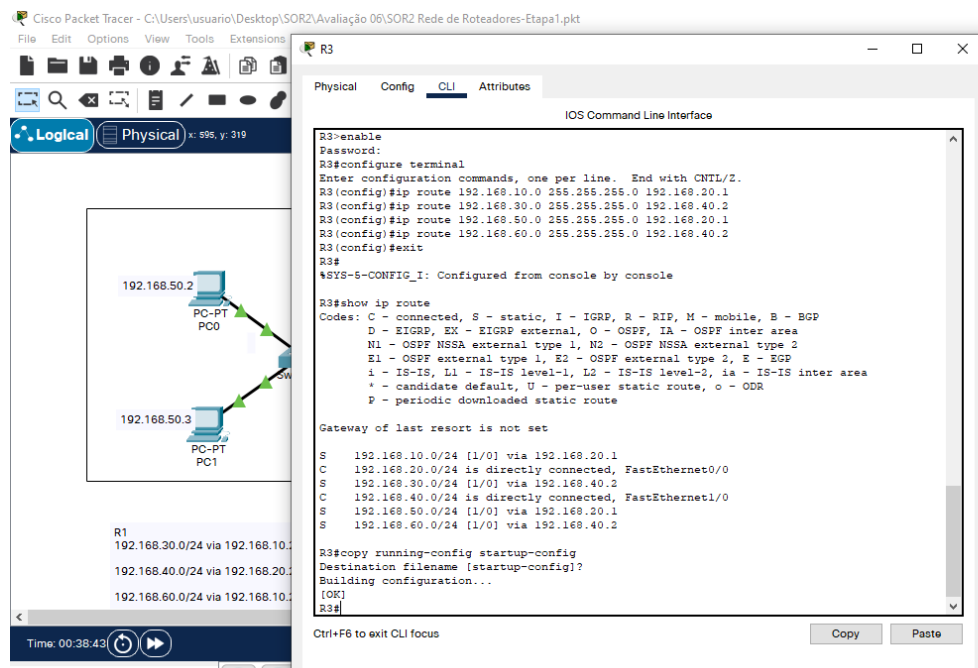
Etapa 3

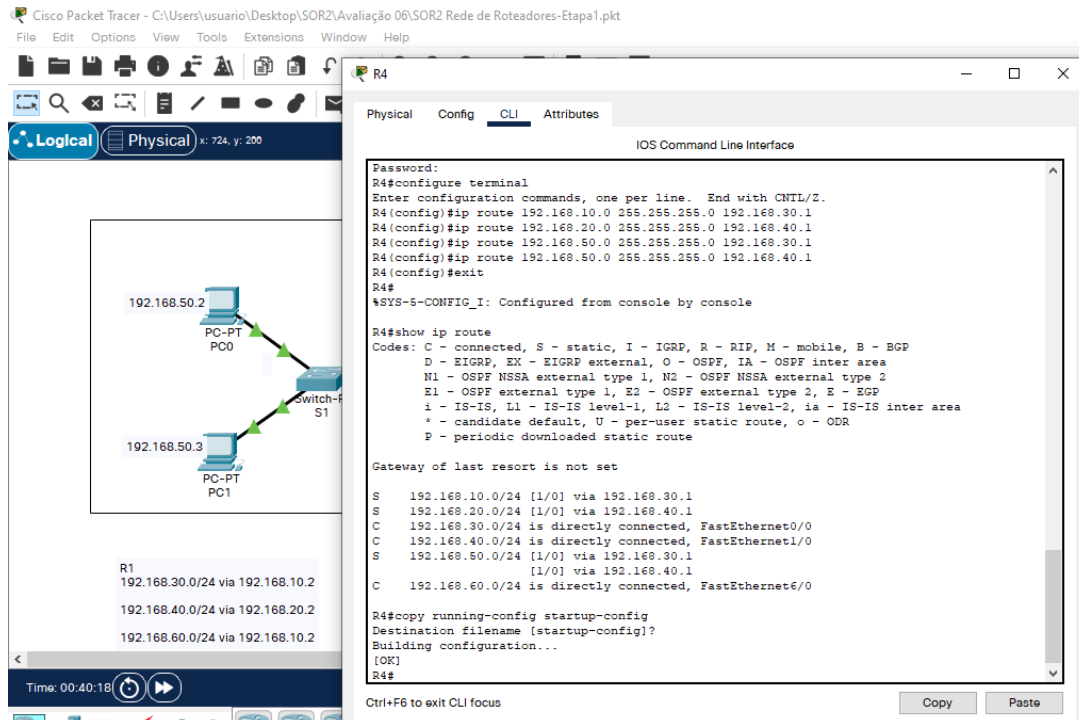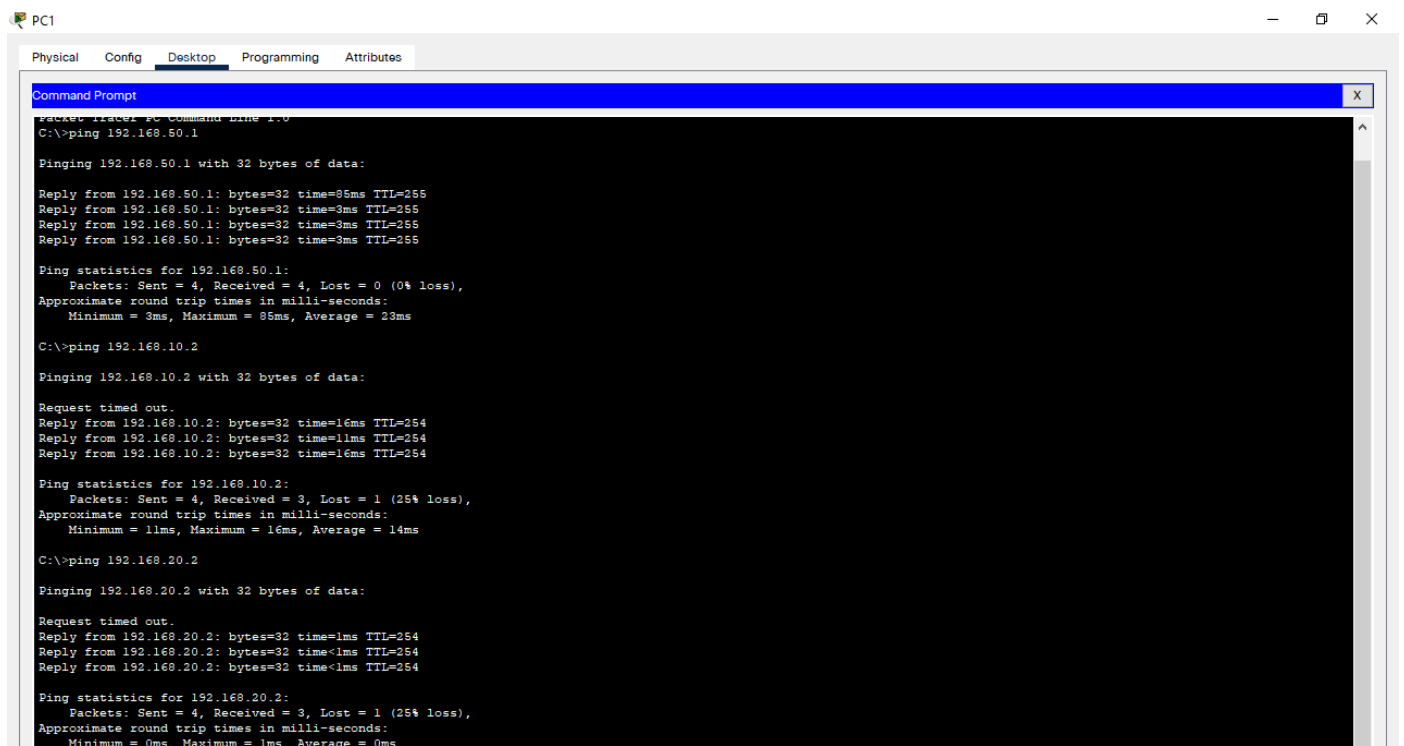### *Configurar as rotas do Roteador R1*

Configurar as rotas do Roteador R2

Configurar as rotas do Roteador R3

Configurar as rotas do Roteador R4

Testar a conectividade entre as duas redes locais

PC1   — ▢ ✕

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
C:\>ping 192.168.40.2

Pinging 192.168.40.2 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 192.168.40.2: bytes=32 time=17ms TTL=253
Reply from 192.168.40.2: bytes=32 time=16ms TTL=253

Ping statistics for 192.168.40.2:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
Approximate round trip times in milli-seconds:
    Minimum = 16ms, Maximum = 17ms, Average = 16ms

C:\>ping 192.168.30.2

Pinging 192.168.30.2 with 32 bytes of data:

Reply from 192.168.30.2: bytes=32 time=22ms TTL=253
Reply from 192.168.30.2: bytes=32 time=13ms TTL=253
Reply from 192.168.30.2: bytes=32 time=10ms TTL=253
Reply from 192.168.30.2: bytes=32 time=10ms TTL=253

Ping statistics for 192.168.30.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 22ms, Average = 13ms

C:\>ping 192.168.60.2

Pinging 192.168.60.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.60.2: bytes=32 time=22ms TTL=125
Reply from 192.168.60.2: bytes=32 time=11ms TTL=125
Reply from 192.168.60.2: bytes=32 time=14ms TTL=125

Ping statistics for 192.168.60.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 11ms, Maximum = 22ms, Average = 15ms
```

PC1   — ▢ ✕

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
Approximate round trip times in milli-seconds:
    Minimum = 11ms, Maximum = 22ms, Average = 15ms

C:\>ping 192.168.60.3

Pinging 192.168.60.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.60.3: bytes=32 time=13ms TTL=125
Reply from 192.168.60.3: bytes=32 time=14ms TTL=125
Reply from 192.168.60.3: bytes=32 time=14ms TTL=125

Ping statistics for 192.168.60.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 13ms, Maximum = 14ms, Average = 13ms

C:\>ping 192.168.60.4

Pinging 192.168.60.4 with 32 bytes of data:

Request timed out.
Reply from 192.168.60.4: bytes=32 time=14ms TTL=125
Reply from 192.168.60.4: bytes=32 time=14ms TTL=125
Reply from 192.168.60.4: bytes=32 time=14ms TTL=125

Ping statistics for 192.168.60.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 14ms, Maximum = 14ms, Average = 14ms

C:\>ping 192.168.60.5

Pinging 192.168.60.5 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.60.5:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```
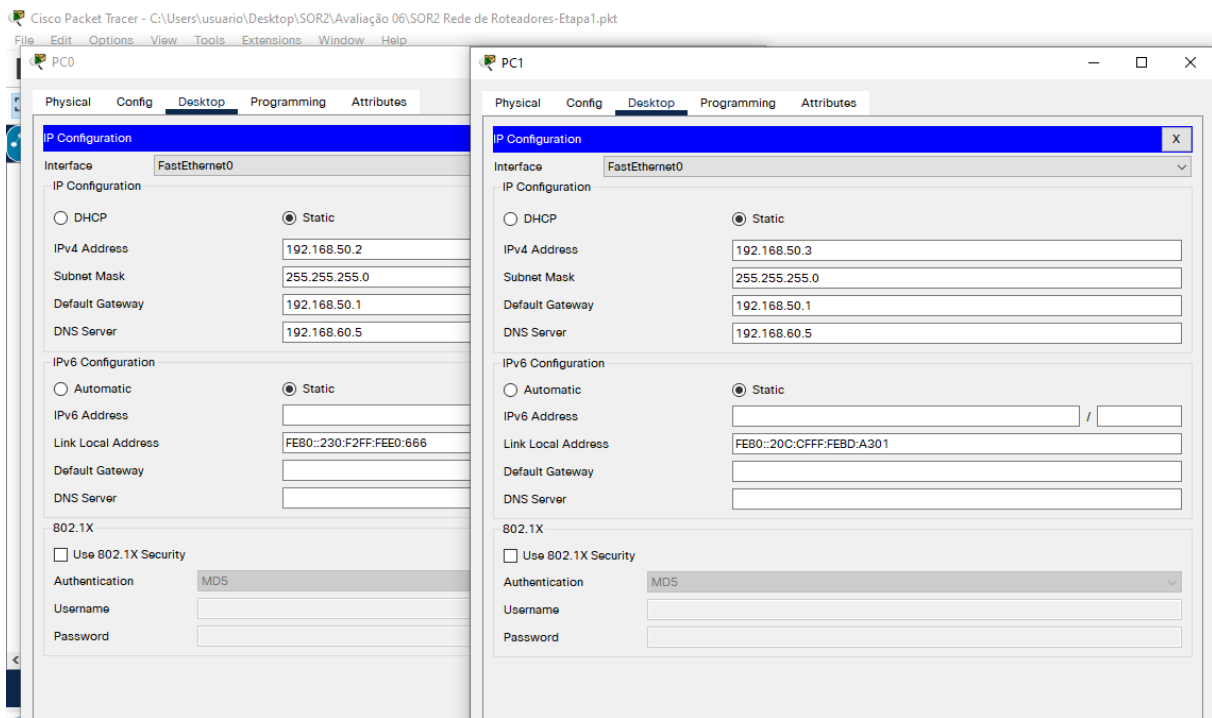
Etapa 4

Configurar e testar o serviço DNS
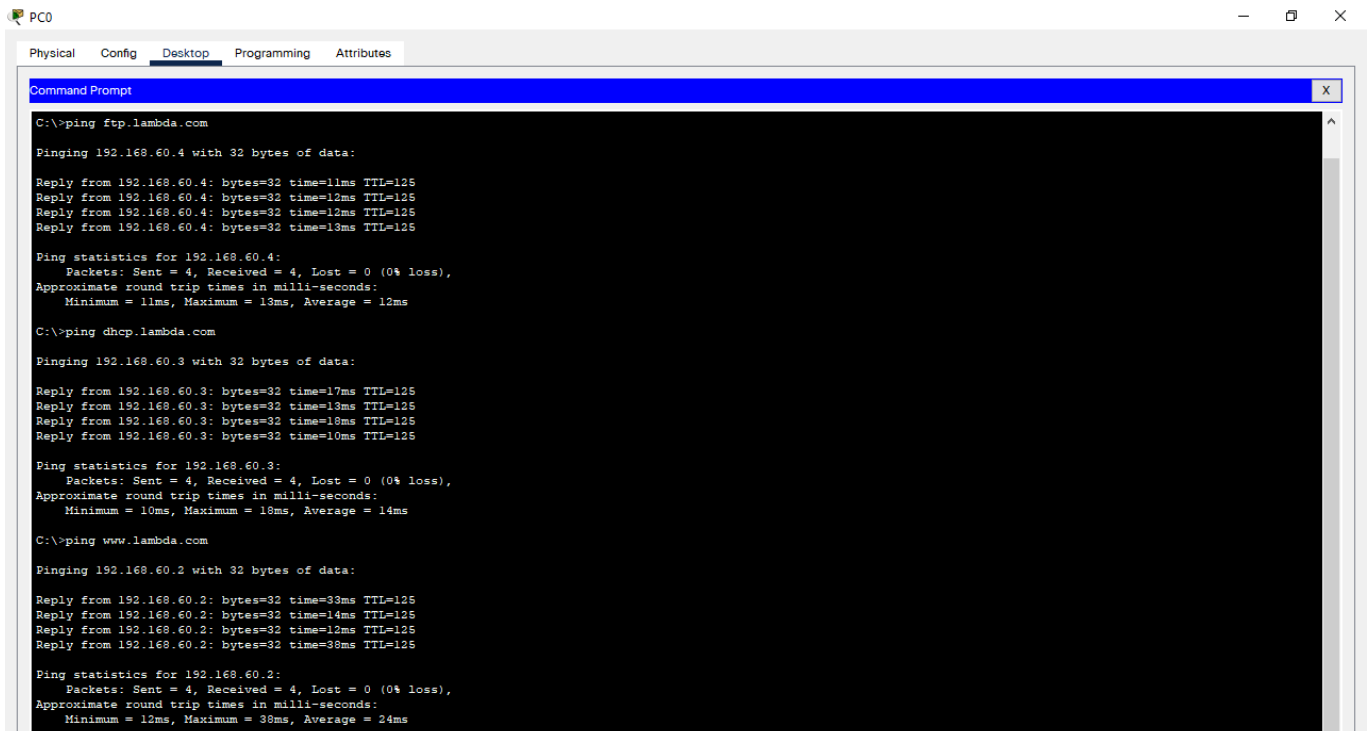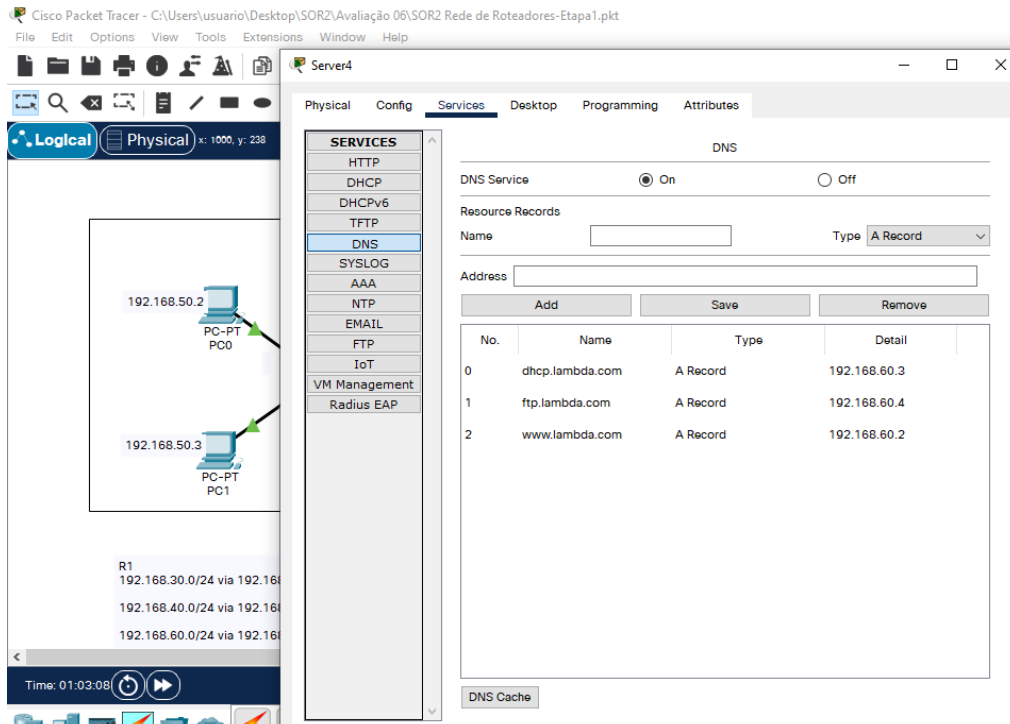
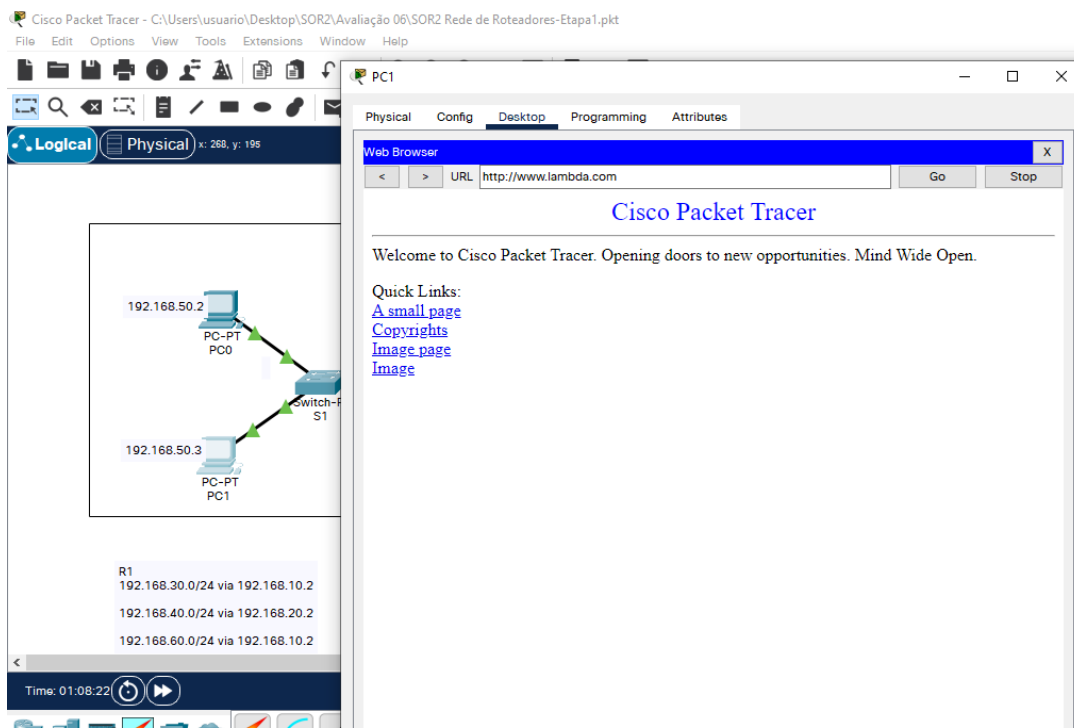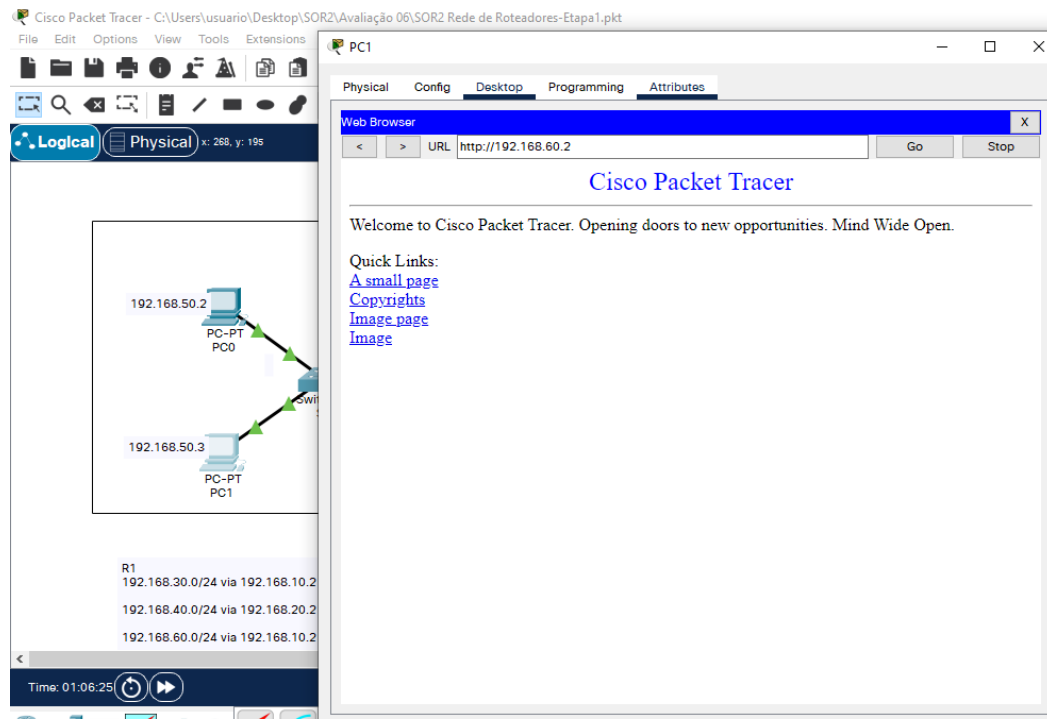**Configurar e testar o serviço HTTP**

Configurar e testar o serviço DHCP

Cisco Packet Tracer - C:\Users\usuario\Desktop\SOR2\Avaliação 06\SOR2 Rede de Roteadores-Etapa1.pkt

File Edit Options View Tools Extensions Window Help

Server2

Physical   Config   Services   Desktop   Programming   Attributes

SERVICES
- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

DHCP

Interface	FastEthernet0	Service ● On ○ Off
Pool Name		serverPool2
Default Gateway		192.168.50.1
DNS Server		192.168.60.5

Start IP Address : 192 | 168 | 50 | 3

Subnet Mask: 255 | 255 | 255 | 0

Maximum Number of Users : 252

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

| Add | Save | Remove |

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool2	192.168...	192.168...	192.168...	255.255...	252	0.0.0.0	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	192.168...	255.255...	512	0.0.0.0	0.0.0.0

192.168.50.2
PC-PT
PC0

192.168.50.3
PC-PT
PC1

R1
192.168.30.0/24 via 192.16
192.168.40.0/24 via 192.16
192.168.60.0/24 via 192.16

Time: 01:19:20

Cisco Packet Tracer - C:\Users\usuario\Desktop\SOR2\Avaliação 06\SOR2 Rede de Roteadores-Etapa1.pkt

File Edit Options View Tools Extensions

R1

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
User Access Verification

Password:

R1>enable
Password:
R1#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#interface fast
R1(config)#interface fastEthernet 6/0
R1(config-if)#ip helper-address 192.168.60.3
R1(config-if)#end
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#interface fast
R1(config)#interface fastEthernet 6/0
R1(config-if)#ip helper-address 192.168.60.3
R1(config-if)#end
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

192.168.50.2
PC-PT
PC0

192.168.50.3
PC-PT
PC1

R1
192.168.30.0/24 via 192.168.10.2
192.168.40.0/24 via 192.168.20.2
192.168.60.0/24 via 192.168.10.2

Time: 01:19:50

Configurar e testar o serviço FTP

PC1

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
C:\>ftp ftp.lambda.com
Trying to connect...ftp.lambda.com
Connected to ftp.lambda.com
220- Welcome to PT Ftp server
Username:xico
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>dir

Listing /ftp directory from ftp.lambda.com:
0   : asa842-k8.bin                                    5571584
1   : asa923-k8.bin                                    30468096
2   : c1841-advipservicesk9-mz.124-15.T1.bin           33591768
3   : c1841-ipbase-mz.123-14.T7.bin                    13832032
4   : c1841-ipbasek9-mz.124-12.bin                     16599160
5   : c1900-universalk9-mz.SPA.155-3.M4a.bin           33591768
6   : c2600-advipservicesk9-mz.124-15.T1.bin           33591768
7   : c2600-i-mz.122-28.bin                            5571584
8   : c2600-ipbasek9-mz.124-8.bin                      13169700
9   : c2800nm-advipservicesk9-mz.124-15.T1.bin         50938004
10  : c2800nm-advipservicesk9-mz.151-4.M4.bin          33591768
11  : c2800nm-ipbase-mz.123-14.T7.bin                  5571584
12  : c2800nm-ipbasek9-mz.124-8.bin                    15522644
13  : c2900-universalk9-mz.SPA.155-3.M4a.bin           33591768
14  : c2950-i6q412-mz.121-22.EA4.bin                   3058048
15  : c2950-i6q412-mz.121-22.EA8.bin                   3117390
16  : c2960-lanbase-mz.122-25.FX.bin                   4414921
17  : c2960-lanbase-mz.122-25.SEE1.bin                 4670455
18  : c2960-lanbasek9-mz.150-2.SE4.bin                 4670455
19  : c3560-advipservicesk9-mz.122-37.SE1.bin          8662192
20  : c3560-advipservicesk9-mz.122-46.SE.bin           10713279
21  : c800-universalk9-mz.SPA.152-4.M4.bin             33591768
22  : c800-universalk9-mz.SPA.154-3.M6a.bin            83029236
23  : cat3k_caa-universalk9.16.03.02.SPA.bin           505532849
24  : cgr1000-universalk9-mz.SPA.154-2.CG              159487552
```
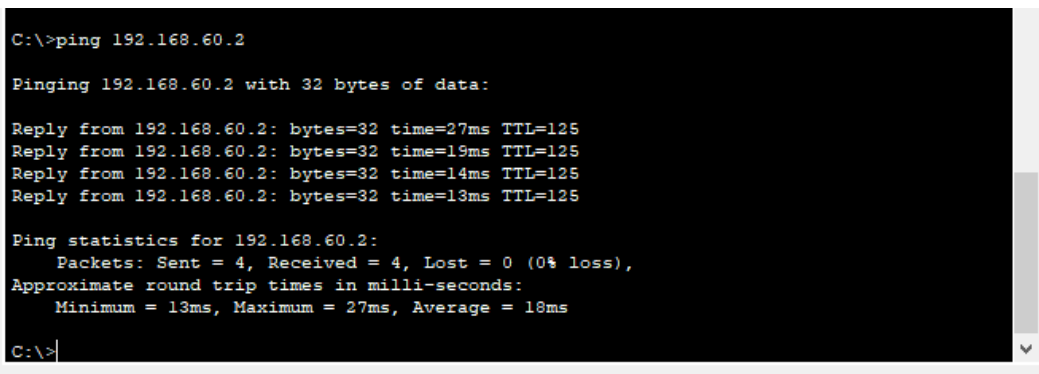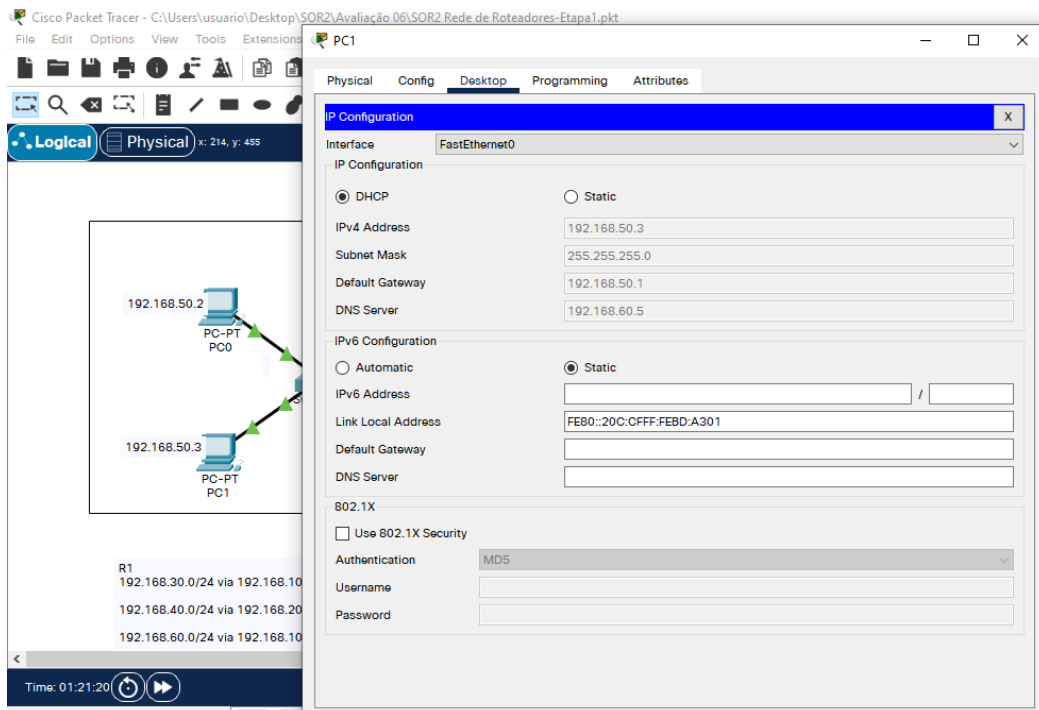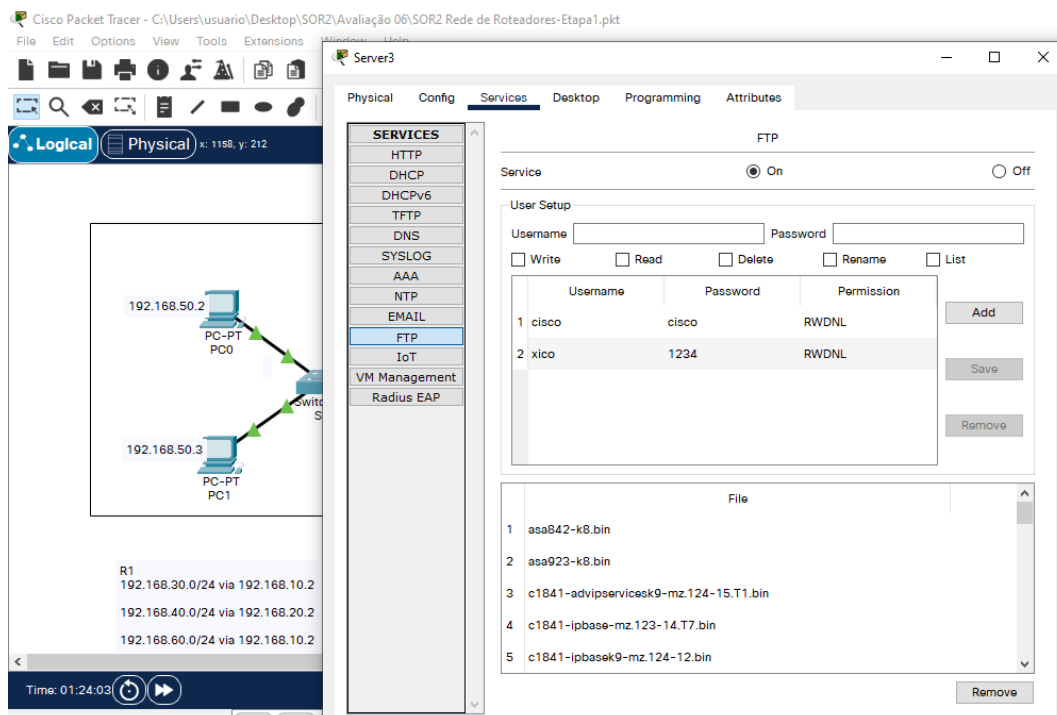
Logical   Physical   x: 254, y: 191

192.168.50.2
PC-PT
PC0

192.168.50.3
PC-PT
PC1

Switch
S1

R1
192.168.30.0/24 via 192.168.10.2
192.168.40.0/24 via 192.168.20.2
192.168.60.0/24 via 192.168.10.2

Time: 01:26:25

PC1

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
9   : c2800nm-advipservicesk9-mz.124-15.T1.bin         50938004
10  : c2800nm-advipservicesk9-mz.151-4.M4.bin          33591768
11  : c2800nm-ipbase-mz.123-14.T7.bin                  5571584
12  : c2800nm-ipbasek9-mz.124-8.bin                    15522644
13  : c2900-universalk9-mz.SPA.155-3.M4a.bin           33591768
14  : c2950-i6q412-mz.121-22.EA4.bin                   3058048
15  : c2950-i6q412-mz.121-22.EA8.bin                   3117390
16  : c2960-lanbase-mz.122-25.FX.bin                   4414921
17  : c2960-lanbase-mz.122-25.SEE1.bin                 4670455
18  : c2960-lanbasek9-mz.150-2.SE4.bin                 4670455
19  : c3560-advipservicesk9-mz.122-37.SE1.bin          8662192
20  : c3560-advipservicesk9-mz.122-46.SE.bin           10713279
21  : c800-universalk9-mz.SPA.152-4.M4.bin             33591768
22  : c800-universalk9-mz.SPA.154-3.M6a.bin            83029236
23  : cat3k_caa-universalk9.16.03.02.SPA.bin           505532849
24  : cgr1000-universalk9-mz.SPA.154-2.CG              159487552
25  : cgr1000-universalk9-mz.SPA.156-2.CG              184530138
26  : ir800-universalk9-bundle.SPA.156-3.M.bin         160968869
27  : ir800-universalk9-mz.SPA.155-3.M                 61750062
28  : ir800-universalk9-mz.SPA.156-3.M                 63753767
29  : ir800_yocto-1.7.2.tar                            2877440
30  : ir800_yocto-1.7.2_python-2.7.3.tar              6912000
31  : pt1000-i-mz.122-28.bin                           5571584
32  : pt3000-i6q412-mz.121-22.EA4.bin                  3117390
ftp>help
        ?
        cd
        delete
        dir
        get
        help
        passive
        put
        pwd
        quit
        rename
ftp>
```

Logical   Physical   x: 208, y: 456

192.168.50.2
PC-PT
PC0

192.168.50.3
PC-PT
PC1

Switch
S1

R1
192.168.30.0/24 via 192.168.10.2
192.168.40.0/24 via 192.168.20.2
192.168.60.0/24 via 192.168.10.2

Time: 01:26:51