Relatório da Prática de Endereçamento IP

Nome: Guilherme Ortiz Santos
RA: 2058944

Topologia da rede

FILIAL GVA

2960-24TT
Switch0(1)(1)(2)

PC-PT
PC0(5)

192.44.3.0/24

Router-PT
Router0(1)

PC-PT
PC0(6)

MATRIZ CTBA

Router-PT
Router0(2)

2960-24TT
Switch0(1)(1)(1)

PC-PT
PC0(7)

192.44.1.0/24

PC-PT
PC0(8)

Server-PT
Server0
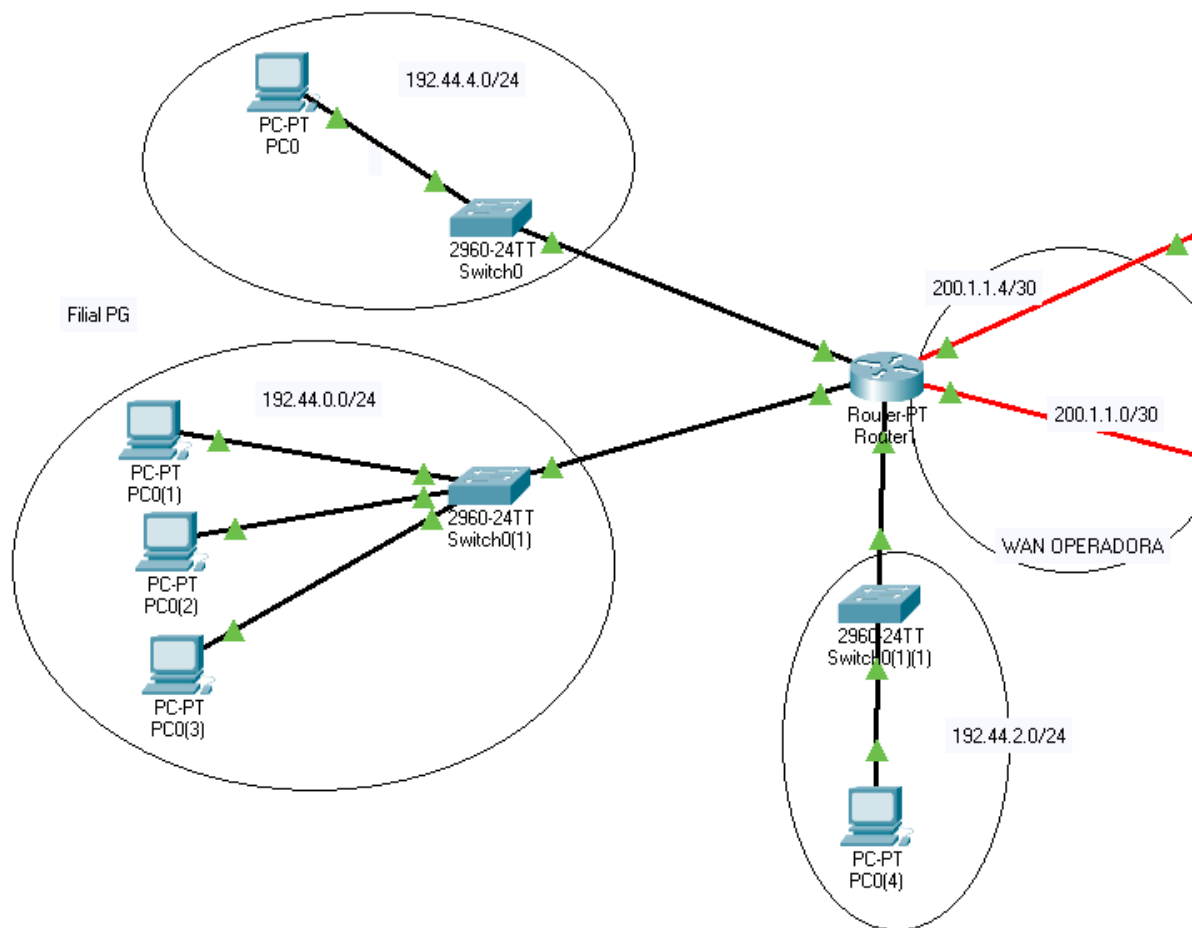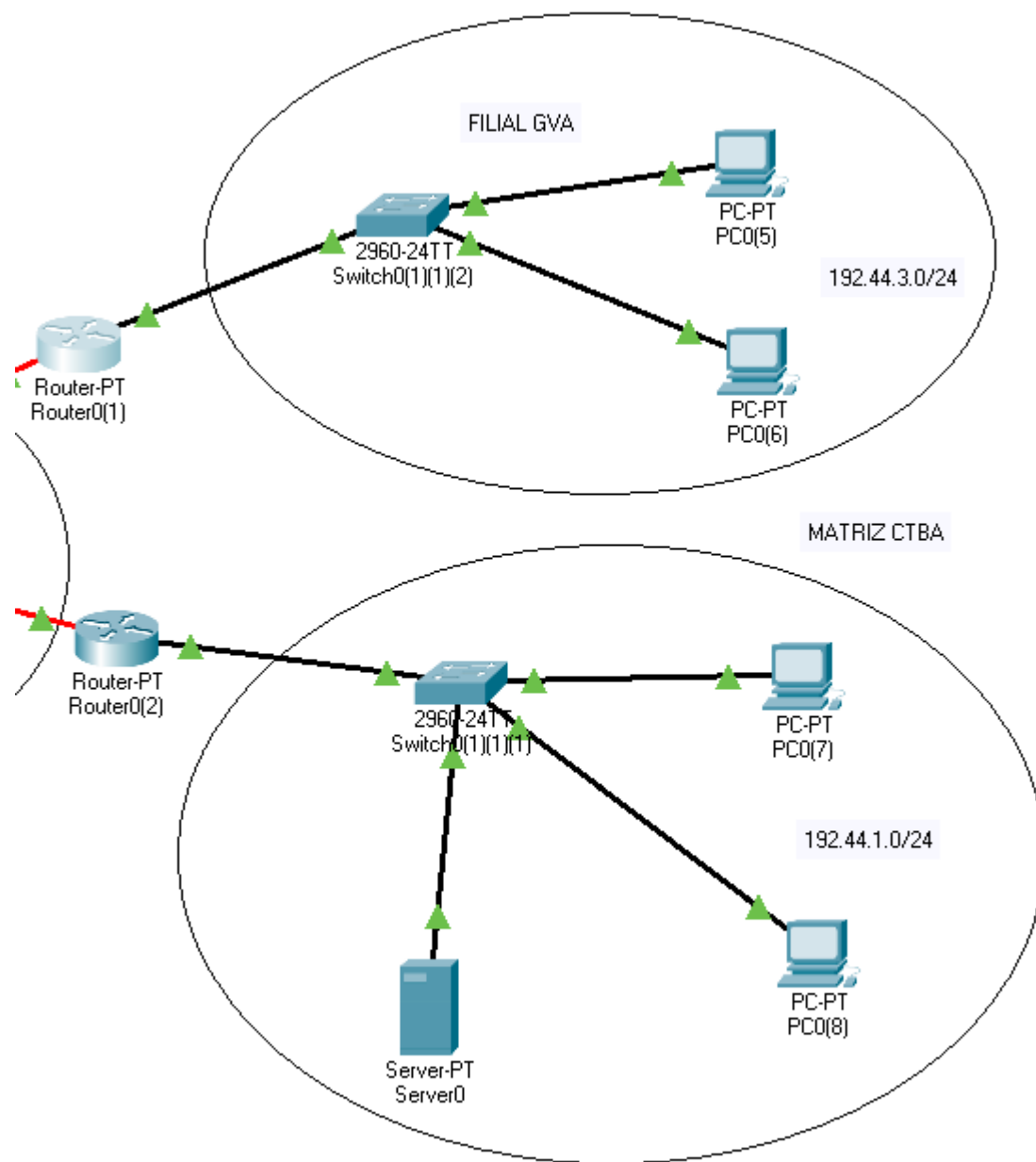
Tabela de endereçamento IP

Equipamento	Endereço IP	Máscara		gateway
PC0	192.44.4.1	255.255.255.0	24	192.44.4.10
PC1	192.44.0.1	255.255.255.0	24	192.44.0.10
PC2	192.44.0.2	255.255.255.0	24	192.44.0.10
PC3	192.44.0.3	255.255.255.0	24	192.44.0.10
PC4	192.44.2.1	255.255.255.0	24	192.44.2.10
PC5	192.44.3.1	255.255.255.0	24	192.44.3.10
PC6	192.44.3.2	255.255.255.0	24	192.44.3.10
PC7	192.44.1.1	255.255.255.0	24	192.44.1.10
PC8	192.44.1.2	255.255.255.0	24	192.44.1.10
SERVER0	192.44.1.3	255.255.255.0	24	192.44.1.10
ROUTER0	192.44.0.10	255.255.255.0	24	200.1.1.2/200.1.1.6
	192.44.4.10	255.255.255.0	24	200.1.1.2/200.1.1.6
	192.44.2.10	255.255.255.0	24	200.1.1.2/200.1.1.6
	200.1.1.1	255.255.255.252	30	200.1.1.2
	200.1.1.5	255.255.255.252	30	200.1.1.6
ROUTER1	192.44.3.10	255.255.255.0	24	200.1.1.5
	200.1.1.6	255.255.255.252	30	200.1.1.5
ROUTER2	192.44.1.10	255.255.255.0	24	200.1.1.1
	200.1.1.2	255.255.255.252	30	200.1.1.1

Resultado dos testes

PC0

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::260:2FFF:FEA1:B804
   IPv6 Address....................: ::
   IPv4 Address....................: 192.44.4.1
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.4.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.44.4.10

Pinging 192.44.4.10 with 32 bytes of data:

Reply from 192.44.4.10: bytes=32 time<1ms TTL=255
Reply from 192.44.4.10: bytes=32 time<1ms TTL=255
Reply from 192.44.4.10: bytes=32 time<1ms TTL=255
Reply from 192.44.4.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.4.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC0 para PC1, PC2, PC3 e PC4

```
Pinging 192.44.0.1 with 32 bytes of data:

Reply from 192.44.0.1: bytes=32 time<1ms TTL=127
Reply from 192.44.0.1: bytes=32 time=1ms TTL=127
Reply from 192.44.0.1: bytes=32 time=1ms TTL=127
Reply from 192.44.0.1: bytes=32 time<1ms TTL=127

Ping statistics for 192.44.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.44.0.2

Pinging 192.44.0.2 with 32 bytes of data:

Reply from 192.44.0.2: bytes=32 time<1ms TTL=127
Reply from 192.44.0.2: bytes=32 time<1ms TTL=127
Reply from 192.44.0.2: bytes=32 time<1ms TTL=127
Reply from 192.44.0.2: bytes=32 time<1ms TTL=127

Ping statistics for 192.44.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.44.0.3

Pinging 192.44.0.3 with 32 bytes of data:

Reply from 192.44.0.3: bytes=32 time=2ms TTL=127
Reply from 192.44.0.3: bytes=32 time<1ms TTL=127
Reply from 192.44.0.3: bytes=32 time<1ms TTL=127
Reply from 192.44.0.3: bytes=32 time<1ms TTL=127

Ping statistics for 192.44.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>ping 192.44.2.1

Pinging 192.44.2.1 with 32 bytes of data:

Reply from 192.44.2.1: bytes=32 time<1ms TTL=127
Reply from 192.44.2.1: bytes=32 time<1ms TTL=127
Reply from 192.44.2.1: bytes=32 time<1ms TTL=127
Reply from 192.44.2.1: bytes=32 time<1ms TTL=127
```

PC1

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::20C:85FF:FE19:A68A
   IPv6 Address.....................: ::
   IPv4 Address.....................: 192.44.0.1
   Subnet Mask......................: 255.255.255.0
   Default Gateway..................: ::
                                      192.44.0.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address.....................: ::
   IPv4 Address.....................: 0.0.0.0
   Subnet Mask......................: 0.0.0.0
   Default Gateway..................: ::
                                      0.0.0.0

C:\>ping 192.44.0.10

Pinging 192.44.0.10 with 32 bytes of data:

Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC2

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::201:C7FF:FE25:1C7B
   IPv6 Address....................: ::
   IPv4 Address....................: 192.44.0.2
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.0.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.44.0.10

Pinging 192.44.0.10 with 32 bytes of data:

Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC3

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::260:3EFF:FE7A:E1E4
   IPv6 Address....................: ::
   IPv4 Address....................: 192.44.0.3
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.0.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.44.0.10

Pinging 192.44.0.10 with 32 bytes of data:

Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255
Reply from 192.44.0.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC4

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::205:5EFF:FE82:ECBE
   IPv6 Address....................: ::
   IPv4 Address....................: 192.44.2.1
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.2.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.44.2.10

Pinging 192.44.2.10 with 32 bytes of data:

Reply from 192.44.2.10: bytes=32 time<1ms TTL=255
Reply from 192.44.2.10: bytes=32 time<1ms TTL=255
Reply from 192.44.2.10: bytes=32 time<1ms TTL=255
Reply from 192.44.2.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.2.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC5

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::201:63FF:FEDA:C417
   IPv6 Address....................: ::
   IPv4 Address....................: 192.44.3.1
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.3.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.44.3.10

Pinging 192.44.3.10 with 32 bytes of data:

Reply from 192.44.3.10: bytes=32 time<1ms TTL=255
Reply from 192.44.3.10: bytes=32 time=7ms TTL=255
Reply from 192.44.3.10: bytes=32 time<1ms TTL=255
Reply from 192.44.3.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.3.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 1ms
```

PC5 para PC6

```
Pinging 192.44.3.2 with 32 bytes of data:

Reply from 192.44.3.2: bytes=32 time<1ms TTL=128
Reply from 192.44.3.2: bytes=32 time<1ms TTL=128
Reply from 192.44.3.2: bytes=32 time<1ms TTL=128
Reply from 192.44.3.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.44.3.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC6

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::2E0:A3FF:FE7E:6C17
   IPv6 Address....................: ::
   IPv4 Address....................: 192.44.3.2
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.3.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.44.3.10

Pinging 192.44.3.10 with 32 bytes of data:

Reply from 192.44.3.10: bytes=32 time<1ms TTL=255
Reply from 192.44.3.10: bytes=32 time=7ms TTL=255
Reply from 192.44.3.10: bytes=32 time<1ms TTL=255
Reply from 192.44.3.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.3.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 1ms
```

PC7

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::204:9AFF:FE19:91D7
   IPv6 Address....................: ::
   IPv4 Address....................: 192.44.1.1
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.1.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.44.1.10

Pinging 192.44.1.10 with 32 bytes of data:

Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC7 para PC8 e SERVER0

```
Pinging 192.44.1.2 with 32 bytes of data:

Reply from 192.44.1.2: bytes=32 time<1ms TTL=128
Reply from 192.44.1.2: bytes=32 time<1ms TTL=128
Reply from 192.44.1.2: bytes=32 time<1ms TTL=128
Reply from 192.44.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.44.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.44.1.3

Pinging 192.44.1.3 with 32 bytes of data:

Reply from 192.44.1.3: bytes=32 time<1ms TTL=128
Reply from 192.44.1.3: bytes=32 time<1ms TTL=128
Reply from 192.44.1.3: bytes=32 time<1ms TTL=128
Reply from 192.44.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.44.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC8

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::201:97FF:FE81:4DA7
   IPv6 Address....................: ::
   IPv4 Address....................: 192.44.1.2
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.1.10

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.44.1.10

Pinging 192.44.1.10 with 32 bytes of data:

Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

SERVER0

```
Packet Tracer SERVER Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::2E0:F9FF:FEE4:614D
   IPv6 Address.....................: ::
   IPv4 Address.....................: 192.44.1.3
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.44.1.10

C:\>ping 192.44.1.10

Pinging 192.44.1.10 with 32 bytes of data:

Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255
Reply from 192.44.1.10: bytes=32 time<1ms TTL=255

Ping statistics for 192.44.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

ROUTER0 para PC0, PC1, PC2, PC3, PC4, ROUTER1 e ROUTER2.

```
Interface              IP-Address      OK? Method Status               Protocol
FastEthernet0/0        192.44.4.10     YES manual up                   up
FastEthernet1/0        192.44.0.10     YES manual up                   up
Serial2/0              unassigned      YES unset  down                 down
Serial3/0              unassigned      YES unset  down                 down
FastEthernet4/0        200.1.1.5       YES manual up                   up
FastEthernet5/0        200.1.1.1       YES manual up                   up
FastEthernet6/0        192.44.2.10     YES manual up                   up
Router#ping 192.44.4.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.4.1, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms


Router#ping 192.44.0.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.0.1, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms


Router#ping 192.44.0.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.0.2, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms


Router#ping 192.44.0.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.0.3, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms


Router#ping 192.44.2.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.2.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/2/7 ms

Router#ping 200.1.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 200.1.1.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/1/7 ms

Router#ping 200.1.1.6

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 200.1.1.6, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
```

ROUTER1 para PC5, PC6 e ROUTER0

```
Router#sh ip interface brief
Interface              IP-Address      OK? Method Status                 Protocol
FastEthernet0/0        192.44.3.10     YES manual up                     up
FastEthernet1/0        unassigned      YES unset  up                     down
Serial2/0              unassigned      YES unset  down                   down
Serial3/0              unassigned      YES unset  down                   down
FastEthernet4/0        200.1.1.6       YES manual up                     up
FastEthernet5/0        unassigned      YES unset  down                   down
Router#ping 192.44.3.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.3.1, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms


Router#ping 192.44.3.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.3.2, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms


Router#ping 200.1.1.5

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 200.1.1.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
```

ROUTER2 para PC7, PC8, SERVER0 e ROUTER0

```
Interface             IP-Address      OK? Method Status              Prot
FastEthernet0/0       192.44.1.10     YES manual up                  up
FastEthernet1/0       unassigned      YES unset  up                  down
Serial2/0             unassigned      YES unset  down                down
Serial3/0             unassigned      YES unset  down                down
FastEthernet4/0       unassigned      YES unset  down                down
FastEthernet5/0       200.1.1.2       YES manual up                  up
Router#ping 192.44.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.1.1, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/1/7 ms

Router#ping 192.44.1.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.1.2, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms

Router#ping 192.44.1.3

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.44.1.3, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms

Router#ping 200.1.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 200.1.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
```