INSTITUTO POLITÉCNICO DE BRAGANÇA - CAMPUS MIRANDELA LICENCIATURA EM INFORMÁTICA E COMUNICAÇÕES

RELATÓRIO DO TRABALHO DE REDES DE COMUNICAÇÃO II

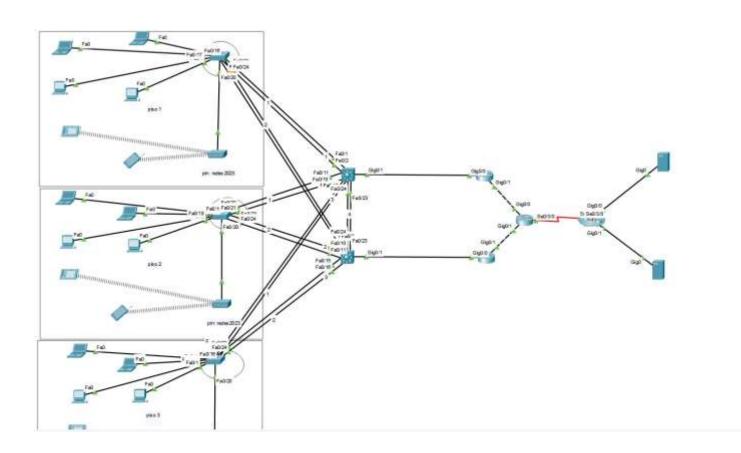
LEANDRO SAMUEL ORTET SANTOS PATRICK SILVA MENEZES

MIRANDELA 2023

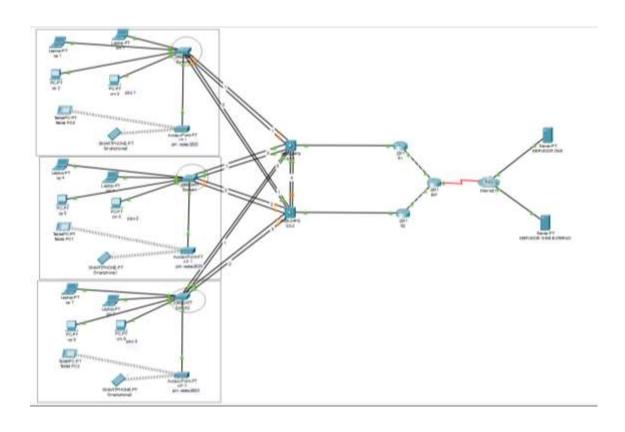
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1. DESENHO LÓGICO DA REDE



2. DESENHO FÍSICO DA REDE



3. TABELA DE SUBREDES IP

ID VLAN	NOME	RANGE IPS
10	COMERCIAL	IPV4: 192.168.10.0/24
		IPV6:2001:1920:3:10::249/64
20	OPERACIONAL	IPV4: 192.168.20.0/24
		IPV6: 2001:1920:3:20::249/64
30	WIFI	IPV4: 192.168.30.0/24
		IPV6: 2001:1920:3:30::249/64

4. TABELA DOS EQUIPAMENTOS DE REDE

4.1 TRUNK

EQUIPAMENTO	PORTAS	MODO DA PORTA
S1-P1	F0/21-24	TRUNK
S1-P2	F0/21-24	TRUNK
S1-P3	F0/21-24	TRUNK
S3-1	F0/1-2	TRUNK
	F0/10-11	
	F0/15-16	
	F0/23-24	
S3-2	F0/1-2	TRUNK
	F0/10-11	
	F0/15-16	
	F0/23-24	

4.2 ETHERCHANEL

EQUIPAMENTO	CHANEL GROUP	PORTAS	PROTOCOLOS	MODOS
S1-P1	1	F0/21-22	LACP	Active
	2	F0/23-24		Active
S1-P2	1	F0/21-22	LACP	Active
	2	F0/23-24		Active
S1-P3	1	F0/21-22	LACP	Active
	2	F0/23-24		Active
S3-1	1	F0/1-2	LACP	Active
	2	F0/10-11		Active
	3	F0/15-16		Active
	4	F0/23-24		Active
S3-2	1	F0/1-2	LACP	Active
	2	F0/10-11		Active
	3	F0/15-16		Active
	4	F0/23-24		Active

5. AS CONFIGURAÇÕES DOS EQUIPAMENTOS

VLAN 10	EQUIPAMENTO	VLANS	ENDEREÇOS IP
VLAN 20	S3-1	VLAN 10	IPV4:192.168.10.254/24
IPV6: VLAN 30			IPV6:
VLAN 30		VLAN 20	IPV4:192.168.20.254/24
S3-2			IPV6:
S3-2		VLAN 30	
PV6: VLAN 20			== ' *'
VLAN 20 IPV4:192.168.20.252/24 IPV6: VLAN 30 IPV4:192.168.30.252/24 IPV6: S1-P1 VLAN 10 IPV4:192.168.10.253/24 IPV6: VLAN 20 IPV4:192.168.20.253/24 IPV6: VLAN 30 IPV4:192.168.30.253/24 IPV6: VLAN 10 IPV4:192.168.30.253/24 IPV6: VLAN 20 IPV4:192.168.10.251/24 IPV6: VLAN 30 IPV4:192.168.20.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 30 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.20.250/24	S3-2	VLAN 10	
IPV6: VLAN 30 IPV4:192.168.30.252/24 IPV6:			
VLAN 30 IPV4:192.168.30.252/24 IPV6: VLAN 10 IPV4:192.168.10.253/24 IPV6: VLAN 20 IPV4:192.168.20.253/24 IPV6: VLAN 30 IPV4:192.168.30.253/24 IPV6: VLAN 10 IPV4:192.168.10.251/24 IPV6: VLAN 20 IPV4:192.168.20.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 30 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24		VLAN 20	
S1-P1			
VLAN 10		VLAN 30	
IPV6:			
VLAN 20 IPV4:192.168.20.253/24 IPV6: VLAN 30 IPV4:192.168.30.253/24 IPV6: VLAN 10 IPV4:192.168.10.251/24 IPV6: VLAN 20 IPV4:192.168.20.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 10 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24	S1-P1	VLAN 10	
IPV6: VLAN 30 IPV4:192.168.30.253/24 IPV6: S1-P2 VLAN 10 IPV4:192.168.10.251/24 IPV6: VLAN 20 IPV4:192.168.20.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 10 IPV4:192.168.30.251/24 IPV6: VLAN 20 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24 IPV6:			
VLAN 30 IPV4:192.168.30.253/24 IPV6: S1-P2 VLAN 10 IPV4:192.168.10.251/24 IPV6: VLAN 20 IPV4:192.168.20.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 10 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24		VLAN 20	
S1-P2		AH AN 20	
S1-P2 VLAN 10 IPV4:192.168.10.251/24 IPV6: VLAN 20 IPV4:192.168.20.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 10 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24		VLAN 30	
IPV6: VLAN 20 IPV4:192.168.20.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: S1-P3 VLAN 10 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24	C1 D2	TH AND 10	
VLAN 20 IPV4:192.168.20.251/24 IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 10 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24	S1-P2	VLAN 10	
IPV6: VLAN 30 IPV4:192.168.30.251/24 IPV6: VLAN 10 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24 IPV6:		VI AN 20	
VLAN 30 IPV4:192.168.30.251/24 IPV6: S1-P3 VLAN 10 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24		VLAN 20	
S1-P3 VLAN 10 IPV6: VLAN 20 IPV4:192.168.10.250/24 IPV6: VLAN 30 IPV4:192.168.20.250/24 IPV6: VLAN 30		VI AN 30	
S1-P3 VLAN 10 IPV4:192.168.10.250/24 IPV6: VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24		VLAIN 30	
IPV6: VLAN 20	S1-P3	VI AN 10	
VLAN 20 IPV4:192.168.20.250/24 IPV6: VLAN 30 IPV4:192.168.30.250/24		V DI II V I O	
IPV6: VLAN 30 IPV4:192.168.30.250/24		VLAN 20	
VLAN 30 IPV4:192.168.30.250/24		, 2, 1, 20	
		VLAN 30	IPV4:192.168.30.250/24
11 ¥ U			IPV6:

5.1. CONFIGURAÇÕES DE REDE DOS EQUIPAMENTOS

5.1.1. DHCPV4

NOME POOL	NETWORK	DEFAULT GATEWAY	DNS SERVER	DOMAIN NAME	EXCLUIR IP
COMERCIAL	192.168.10.0/2 4	192.168.10.247	1.1.1.8	comercial.redes.br	192.168.10.247 - 192.168.10.254
OPERACIONAL	192.168.20.0/2 4	192.168.20.247	1.1.1.8	operacional.redes. brcv	192.168.20.247 - 192.168.0.254
WIFI	192.168.30.0/2 4	192.168.30.247	1.1.1.8	wifi.redes.brcv	192.168.30.247 - 192.168.30.254

5.1.2. DHCPV6

NOME POOL	NETWORK	DEFAULT GATEWAY	DOMAIN NAME	EXCLUIR IP
COMERCIAL	2001:1920:3:10::249	FE80:30	comercial.redes.brcv	
OPERACIONAL	2001:1920:3:20::249	FE80:30	operacional.redes.brc v	
WIFI	2001:1920:3:30::249	FE80:30	wifi.redes.brcv	

5.2. SERVIDORES

SERVIDOR	ENDEREÇOS IP	GATEWAY
WEB	2.2.2.21	2.2.2.1
DNS	1.1.1.8	2.2.2.1

5.3. WLAN

DISPOSITIVO	SSID	PASSWORD
AP1	AP1	redes2023
AP2	AP2	redes2023
AP3	AP3	redes2023

ESTADO DOS EQUIPAMENTOS

6. ROUTERS

6.1. TABELAS DE ENCAMINHAMENTO (router ativo R1)

```
Rl#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is 1.1.1.1 to network 0.0.0.0
    1.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
       1.1.1.0/30 is directly connected, GigabitEthernet0/1
       1.1.1.2/32 is directly connected, GigabitEthernet0/1
    192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
C
       192.168.10.0/24 is directly connected, GigabitEthernet0/0.10
       192.168.10.249/32 is directly connected, GigabitEthernet0/0.10
    192.168.20.0/24 is variably subnetted, 2 subnets, 2 masks
С
       192.168.20.0/24 is directly connected, GigabitEthernet0/0.20
       192.168.20.249/32 is directly connected, GigabitEthernet0/0.20
   192.168.30.0/24 is variably subnetted, 2 subnets, 2 masks
    192.168.30.0/24 is directly connected, GigabitEthernet0/0.30
       192.168.30.249/32 is directly connected, GigabitEthernet0/0.30
   0.0.0.0/0 [1/0] via 1.1.1.1
```

6.2. RESUMO DAS INTERFACES (router ativo R1)

```
Rl#show ip interface brief
Interface IP-Address OK? Method Status
Protocol
GigabitEthernet0/0 unassigned YES unset up up
GigabitEthernet0/0.10 192.168.10.249 YES manual up up
GigabitEthernet0/0.20 192.168.20.249 YES manual up up
GigabitEthernet0/0.30 192.168.30.249 YES manual up up
GigabitEthernet0/1 1.1.1.2 YES manual up up
GigabitEthernet0/1 1.1.1.2 YES manual up up
GigabitEthernet0/2 unassigned YES unset administratively down down
Vlanl unassigned YES unset administratively down down
```

6.3. RESUMO DAS ATRIBUIÇÕES DE ENDEREÇOS VIA DHCP (router ativo R1)

```
Rl#show ip dhcp pool
Pool comercial:
Utilization mark (high/low) : 100 / 0
Subnet size (first/next) : 0 / 0
                           : 254
Total addresses
                            : 0
Leased addresses
Excluded addresses
                           : 16
Pending event
                           : none
1 subnet is currently in the pool
Current index IP address range Leased/Excluded/Total 192.168.1.1 - 192.168.1.254 0 / 16 / 254
                                                  Leased/Excluded/Total
Pool operacional:
Utilization mark (high/low) : 100 / 0
Subnet size (first/next) : 0 / 0
Total addresses
                            : 254
Leased addresses
                           : 16
Excluded addresses
Pending event
1 subnet is currently in the pool
Current index IP address range Leased/Excluded/Total 192.168.20.1 192.168.20.1 - 192.168.20.254 4 / 16 / 254
                                                  Leased/Excluded/Total
Pool wifi :
Utilization mark (high/low) : 100 / 0
Subnet size (first/next)
                           : 0 / 0
                           : 254
Total addresses
Leased addresses
                           : 16
Excluded addresses
Pending event
                           : none
1 subnet is currently in the pool
Leased/Excluded/Total
ipv6 unicast-routing
ipv6 cef
. 1
ipv6 dhcp pool DHCPV6
prefix-delegation pool DHCPV6 lifetime 2592000 604800
dns-server 2001:DB8::8
domain-name DHCPV6.redes.brcv
ipv6 local pool comercial 2000:FACE::/64 64
license udi pid CISCO2911/K9 sn FTX1524M6U6-
```

7. SWITCH DE DISTRIBUIÇÃO (S1-P1)

7.1. RESUMO DAS VLANS E ASSOCIAÇÃO ÀS PORTAS

VLAN Name	Status	Ports
		-
l default	active	Gig0/1, Gig0/2
10 comercial	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4
		Fa0/5, Fa0/6, Fa0/7, Fa0/8
		Fa0/9, Fa0/10, Fa0/11, Fa0/12
20 opercaional	active	Fa0/13, Fa0/14, Fa0/15,
Fa0/16		
		Fa0/17, Fa0/18, Fa0/19
30 wifi	active	Fa0/20
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

7.2. INFORMAÇÕES RELACIONADAS COM A SEGURANÇA (S1-P1)

```
hostname 51-Pl
enable secret $ $1$mER:$hmS:Vt7:FNoS4wqbXEX7m0
ip erp inspection vien 10,20,30
ip arp inspection validate arc-mac
ip dhop snooping vlan 10,20,30
spanning-tree mode pyst
spanning-tree portfast bpduguard default
spanning-tree extend system-id
interface Fort-channell
 description Port-Channel para o 53-1 switchport trunk allowed vian 10,20,30
 switchport mode trunk
interface Port-channel2
 description Port-Channel para o 53-1
 switchport trunk allowed vian 10,29,30
 switchport mode trunk
interface FastEthernet0/1
 switchport access vian 10
 ip dhop smooping limit rate €
 switchport mode access
 switchport port-security
 switchport port-security maximum 132
 spanning-tree bpduguard enable
interface FastEthernet0/2
 switchport access vlan 10
 ip dhop encoping limit rate \epsilon switchport mode access
 switchport port-security
 switchport port-security maximum 132
 spanning-tree bpduguard enable
interface FastEthernet0/3
 switchport access vian 10
 ip dhop snooping limit rate 6
 switchport mode access
 spanning-tree bpduguard enable
 shutdown
```

Portas não utilizadas foram desativadas também.

8. SWITCH DE ACESSO (layer S3-1)

8.1. RESUMO DAS VLANS E ASSOCIAÇÃO ÀS PORTAS

VLAN	Name	Status	Ports
1	default	active	Fa0/3, Fa0/4, Fa0/5, Fa0/6
			Fa0/7, Fa0/8, Fa0/9, Fa0/12
			Fa0/13, Fa0/14, Fa0/17,
Fa0/1	18		
			Fa0/19, Fa0/20, Fa0/21,
Fa0/2	22		
10	comercial	active	
20	operacional	active	
30	wifi	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	
	•		

8.2. INFORMAÇÕES RELACIONADAS COM A SEGURANÇA

```
ip arp inspection vian 10,20,30
ip arp inspection validate src-mac

spanning-tree mode post

interface Port-channel do pisc 1
switchport trunk allowed vian 10,20,30
switchport trunk encapaulation dotlq
switchport trunk allowed vian 10,20,30
switchport trunk sncapsulation dotlq
switchport trunk allowed vian 10,20,30
switchport trunk allowed vian 10,20,30
switchport trunk allowed vian 10,20,30
switchport trunk ancapsulation dotlq
switchport trunk allowed vian 10,20,30
switchport trunk allowed vian 10,20,30
switchport trunk allowed vian 10,20,30
switchport trunk slowed vian 10,20,30
switchport trunk sncapsulation dotlq
switchport trunk sncapsulation dotlq
switchport trunk sncapsulation dotlq
switchport trunk sncapsulation dotlq
switchport mode trunk
interface FastEthernetO/1
ip dhop sncoping limit rate 6
switchport trunk allowed vian 10,20,30
switchport trunk encapsulation dotlq
switchport port-security
```

```
!
interface GigabitEthernet0/l
ip arp inspection trust
ip dhcp snooping trust
switchport trunk encapsulation dotlq
switchport mode trunk
!
```

Portas não utilizadas foram desativadas também.

9. TESTES EFETUADOS PARA GARANTIR O FUNCIONAMENTO DA REDE DA FORMA PRENTENDIDA

9.1 Posto de trabalho cm1 para Switch layer 3 S3-1

```
C:\>ping 192.168.10.254

Pinging 192.168.10.254 with 32 bytes of data:

Reply from 192.168.10.254: bytes=32 time<1ms TTL=255

Reply from 192.168.10.254: bytes=32 time<1ms TTL=255

Reply from 192.168.10.254: bytes=32 time<1ms TTL=255

Reply from 192.168.10.254: bytes=32 time=9ms TTL=255
```

9.2 Posto de trabalho cm1 para Switch layer 3 S3-2

```
C:\>ping 192.168.10.252

Pinging 192.168.10.252 with 32 bytes of data:

Reply from 192.168.10.252: bytes=32 time<lms TTL=255

Reply from 192.168.10.252: bytes=32 time<lms TTL=255

Reply from 192.168.10.252: bytes=32 time=17ms TTL=255

Reply from 192.168.10.252: bytes=32 time<lms TTL=255
```

9.3 Posto de trabalho cm1 para router ativo R1

```
C:\>ping 192.168.10.249

Pinging 192.168.10.249 with 32 bytes of data:

Reply from 192.168.10.249: bytes=32 time=lms TTL=255
Reply from 192.168.10.249: bytes=32 time=llms TTL=255
Reply from 192.168.10.249: bytes=32 time<lms TTL=255
Reply from 192.168.10.249: bytes=32 time<lms TTL=255
```

9.4 Posto de trabalho cm1 para router standby R2

```
C:\>ping 192.168.10.248

Pinging 192.168.10.248 with 32 bytes of data:

Reply from 192.168.10.248: bytes=32 time<lms TTL=255

Reply from 192.168.10.248: bytes=32 time=lms TTL=255

Reply from 192.168.10.248: bytes=32 time<lms TTL=255

Reply from 192.168.10.248: bytes=32 time=lms TTL=255
```

9.5 Posto de trabalho cm1 para servidor DNS

```
Pinging 2.2.2.13 with 32 bytes of data:

Reply from 2.2.2.13: bytes=32 time=1ms TTL=125
```

9.6 Posto de trabalho cm1 para servidor WEB

```
Pinging 2.2.2.21 with 32 bytes of data:

Reply from 2.2.2.21: bytes=32 time=lms TTL=125
Reply from 2.2.2.21: bytes=32 time=lms TTL=125
Reply from 2.2.2.21: bytes=32 time=2ms TTL=125
Reply from 2.2.2.21: bytes=32 time=lms TTL=125
```

9.7 Switch layer 3 para router ativo R1 - subinterfaces G0/0.10,20,30

```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.10.249, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms

S3-1#ping 192.168.20.249

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.20.249, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms

S3-1#ping 192.168.30.249

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.30.249, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms
```

9.8 ISP para Router Externo

```
ISP#ping 2.2.2.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2.2.2.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/7/14 ms
```

9.9 Router Externo para servidor DNS

```
R.Externo#ping 2.2.2.13

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 2.2.2.13, timeout is 2 seconds:
!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
```

9.10 Router Externo para servidor Web

```
R.Externo#ping 2.2.2.21

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 2.2.2.21, timeout is 2 seconds:
!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
```

9.11 Router ativo para ISP

```
Rl#ping 1.1.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 1.1.1.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
```

9.12 Router standy R2 para ISP

```
R2#ping 1.1.1.5
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 1.1.1.5, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms
```

9.13 Posto de trabalho cm 1 para op 1

```
C:\>ping 192.168.20.1

Pinging 192.168.20.1 with 32 bytes of data:

Reply from 192.168.20.1: bytes=32 time<1ms TTL=127

Reply from 192.168.20.1: bytes=32 time<1ms TTL=127

Reply from 192.168.20.1: bytes=32 time<1ms TTL=127

Reply from 192.168.20.1: bytes=32 time=12ms TTL=127
```

9.14 Posto de trabalho cm 1 para SMARTPHONE-PT

```
Pinging 192.168.30.2 with 32 bytes of data:

Reply from 192.168.30.2: bytes=32 time=19ms TTL=127
Reply from 192.168.30.2: bytes=32 time=7ms TTL=127
Reply from 192.168.30.2: bytes=32 time=41ms TTL=127
Reply from 192.168.30.2: bytes=32 time=21ms TTL=127
```