

PROFESSOR CARLOS RICARDO BERNAL VEIGA

Criar a topologia Abaixo

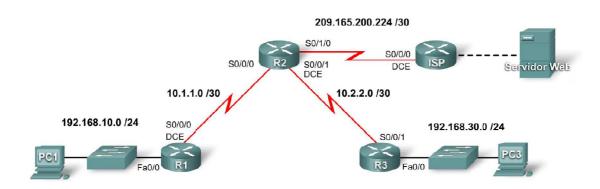


Figura 01: Topologia de Estudo

Tabela de endereçamento

Dispositivo	Interface	Endereço IP	Máscara de sub-rede	Gateway padrão
R1	Fa0/0	192.168.10.1	255.255.255.0	N/A
	\$0/0/0	10.1.1.1	255.255.255.252	N/A
R2	\$0/0/0	10.1.1.2	255.255.255.252	N/A
	\$0/0/1	10.2.2.1	255.255.255.252	N/A
	\$0/1/0	209.165.200.225	255.255.255.252	N/A
R3	Fa0/0	192.168.30.1	255.255.255.0	N/A
	\$0/0/1	10.2.2.2	255.255.255.252	N/A
ISP	\$0/0/0	209.165.200.226	255.255.255.252	N/A
	Fa0/0	209.165.200.1	255.255.255.252	N/A
Servidor Web	Placa de rede	209.165.200.2	255.255.255.252	209.165.200.1
PC1	Placa de rede	192.168.10.10	255.255.255.0	192.168.10.1
PC3	Placa de rede	192.168.30.10	255.255.255.0	192.168.30.1



TECNOLOGIA EM REDES DE COMPUTADORES REDES DE ALTA VELOCIDADE E CONVERGENTES

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Configurando o R1

Configurando o básico no roteador

Router>ena

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname R1

R1(config)#line vty 0 4

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#exit

R1(config)#enable secret cisco

R1(config)#line console 0

R1(config-line)#password cisco

R1(config-line)#login

R1(config-line)#exit

R1(config)#service password-encryption

• Configurando a interface Fastethernet

R1(config)#interface fastEthernet 0/0

R1(config-if)#ip address 192.168.10.1 255.255.255.0

R1(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R1(config-if)#exit

• Configurando a Interface Serial 0/0/0 como DCE com uma velocidade de 64 Kbps

R1(config)#interface serial 0/0/0

R1(config-if)#ip address 10.1.1.1 255.255.255.252

R1(config-if)#encapsulation ppp

R1(config-if)#clock rate 64000

R1(config-if)#no shutdown

R1(config-if)#exit

Configurando a tabela de roteamento

R1(config)#ip route 0.0.0.0 0.0.0.0 10.1.1.2

R1(config)#exit

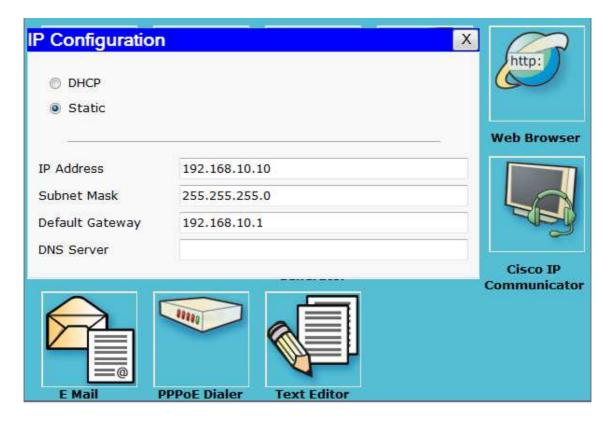


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• Salvando as configurações

R1#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
R1#

Configurando a máquina da interface LAN do router





TECNOLOGIA EM REDES DE COMPUTADORES REDES DE ALTA VELOCIDADE E CONVERGENTES

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Configurando o R2

Configurando o básico no roteador

R2>ena

R2#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R2(config)#hostname R2

R2(config)#line vty 0 4

R2(config-line)#password cisco

R2(config-line)#login

R2(config-line)#exit

R2(config)#enable secret cisco

R2(config)#line console 0

R2(config-line)#password cisco

R2(config-line)#login

R2(config-line)#exit

R2(config)#service password-encryption

Configurando a interface Serial 0/0/0

R2(config)#interface serial 0/0/0

R2(config-if)#ip address 10.1.1.2 255.255.255.252

R2(config-if)#encapsulation ppp

R2(config-if)#no shutdown

R2(config-if)#exit

• Configurando a Interface Serial 0/0/1 como DCE com uma velocidade de 128 Kbps

R2(config)#interface serial 0/0/1

R2(config-if)#ip address 10.2.2.1 255.255.255.252

R2(config-if)#clock rate 128000

R2(config-if)#encapsulation ppp

R2(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down

R2(config-if)#exit



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• Configurando a Interface Serial 0/1/0

R2(config)#interface serial 0/1/0

R2(config-if)#ip address 209.165.200.225 255.255.255.252

R2(config-if)#encapsulation ppp

R2(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down

R2(config-if)#ex

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

it

Configurando a tabela de roteamento

R2(config)#ip route 192.168.10.0 255.255.255.0 10.1.1.1

R2(config)#ip route 192.168.30.0 255.255.255.0 10.2.2.2

R2(config)#ip route 209.165.200.0 255.255.255.252 209.165.200.226

R2(config)#exit

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

exit

• Salvando as configurações

R2#copy running-config startup-config Destination filename [startup-config]?

Building configuration...

[OK]

R2#



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Configurando o R3

Configurando o básico no roteador

Router>ena

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname R3

R3(config)#line vty 0 4

R3(config-line)#password cisco

R3(config-line)#login

R3(config-line)#exit

R3(config)#enable secret cisco

R3(config)#line console 0

R3(config-line)#password cisco

R3(config-line)#login

R3(config-line)#exit

R3(config)#service password-encryption

• Configurando a interface Fastethernet

R3(config)#interface fastethernet0/0

R3(config-if)#ip address 192.168.30.1 255.255.255.0

R3(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

R3(config-if)#exit

• Configurando a Interface Serial 0/0/1

R3(config)#interface serial 0/0/1

R3(config-if)#ip address 10.2.2.2 255.255.255.252

R3(config-if)#encapsulation ppp

R3(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

R3(config-if)#exit



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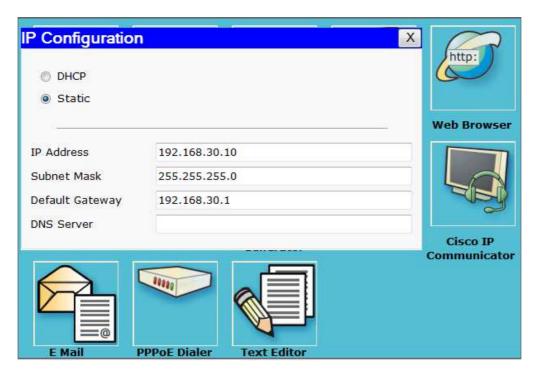
Configurando a tabela de roteamento

R3(config)#ip route 0.0.0.0 0.0.0.0 10.2.2.1 R3(config)#exit R3#

• Salvando as configurações

R3#copy running-config startup-config Destination filename [startup-config]? Building configuration... [OK] R3#

Configurando a máquina da interface LAN do router





TECNOLOGIA EM REDES DE COMPUTADORES REDES DE ALTA VELOCIDADE E CONVERGENTES

PROFESSOR CARLOS RICARDO BERNAL VEIGA

Configurando o ISP

Configurando o básico no roteador

Router>ena

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname ISP

ISP(config)#line vty 0 4

ISP(config-line)#password cisco

ISP(config-line)#login

ISP(config-line)#exit

ISP(config)#enable secret cisco

ISP(config)#line console 0

ISP(config-line)#password cisco

ISP(config-line)#login

ISP(config-line)#exit

ISP(config)#service password-encryption

• Configurando a interface Fastethernet

ISP(config)#interface fastethernet0/0

ISP(config-if)#ip address 209.165.200.1 255.255.255.252

ISP(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

ISP(config-if)#exit

• Configurando a Interface Serial 0/0/0 como DCE com uma velocidade de 256 Kbps

ISP(config)#interface serial 0/0/0

ISP(config-if)#ip address 209.165.200.226 255.255.255.252

ISP(config-if)#encapsulation ppp

ISP(config-if)#clock rate 250000

ISP(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

ISP(config-if)#exit



PROFESSOR CARLOS RICARDO BERNAL VEIGA

• Configurando a tabela de roteamento

ISP(config)#ip route 0.0.0.0 0.0.0.0 209.165.200.225 ISP(config)#exit

• Salvando as configurações

R3#copy running-config startup-config Destination filename [startup-config]? Building configuration...
[OK]
R3#

Configurando o servidor da interface LAN do router

