PCs:

PC1> ip 192.168.5.1/26 192.168.5.62

PC2> ip 192.168.5.2/26 192.168.5.62

PC3> ip 180.43.170.129/25 180.43.170.254

Server> ip 180.43.170.1/25 180.43.170.126

R1:

R1#enable

R1#config terminal

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

R1(config)#interface FastEthernet1/0

R1(config-if)#ip address 180.43.171.254 255.255.255.0

R1(config-if)#no shutdown

R1(config-if)#exit

R1(config)#interface Ethernet0/0

R1(config-if)#ip address 180.43.170.126 255.255.255.128

R1(config-if)#no shutdown

R1(config-if)#exit

R1(config)#ip route 192.168.5.0 255.255.255.192 180.43.171.1

R1(config)#ip route 180.43.170.128 255.255.255.128 180.43.171.2

R1(config)#exit

R2:

R2#enable

R2#config terminal

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

R2(config)#interface FastEthernet1/0

R2(config-if)#ip address 180.43.171.1 255.255.255.0

R2(config-if)#no shutdown

R2(config-if)#exit

R2(config)#interface Ethernet0/0

R2(config-if)#ip address 192.168.5.62 255.255.255.192

R2(config-if)#no shutdown

R2(config-if)#exit

R2(config)#ip route 180.43.170.128 255.255.255.128 180.43.171.2

R2(config)#ip route 180.43.170.0 255.255.255.128 180.43.171.254

R2(config)#exit

R3:

R3#enable

R3#config terminal

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

R3(config)#interface FastEthernet1/0

R3(config-if)#ip address 180.43.171.2 255.255.255.0

R3(config-if)#no shutdown

R3(config-if)#exit

R3(config)#interface Ethernet0/0

R3(config-if)#ip address 180.43.170.254 255.255.255.128

R3(config-if)#no shutdown

R3(config-if)#exit

R3(config)#ip route 192.168.5.0 255.255.255.192 180.43.171.1

R3(config)#ip route 180.43.170.0 255.255.255.128 180.42.171.254

R3(config)#exit

Na rede A:

|  |  |
| --- | --- |
|  | Endereço(s) IPv4 |
| Endereço de Rede | 180.43.170.0 |
| Máscara de Rede | 255.255.255.128 |
| Gama de endereços disponíveis | 180.43.170.1 - 180.43.170.126 |
| Endereço de broacast | 180.43.170.127 |

Na rede B:

|  |  |
| --- | --- |
|  | Endereço(s) IPv4 |
| Endereço de Rede | 192.168.5.0 |
| Máscara de Rede | 255.255.255.192 |
| Gama de endereços disponíveis | 192.168.5.1 - 192.168.5.62 |
| Endereço de broacast | 192.168.5.63 |

Na rede C:

|  |  |
| --- | --- |
|  | Endereço(s) IPv4 |
| Endereço de Rede | 180.43.171.0 |
| Máscara de Rede | 255.255.255.0 |
| Gama de endereços disponíveis | 180.43.171.1 - 170.43.171.254 |
| Endereço de broacast | 180.43.171.255 |

Na rede D:

|  |  |
| --- | --- |
|  | Endereço(s) IPv4 |
| Endereço de Rede | 180.43.170.128 |
| Máscara de Rede | 255.255.255.128 |
| Gama de endereços disponíveis | 180.43.170.129 - 170.43.170.254 |
| Endereço de broacast | 180.43.170.255 |

Configuração dos routers:

|  |  |  |
| --- | --- | --- |
|  | Endreço IPv4 | Máscara de Rede |
| Interface e0/0 do router R1 | 180.43.170.126 | 255.255.255.128 |
| Interface f1/0 do router R1 | 180.43.171.254 | 255.255.255.0 |
| Interface e0/0 do router R2 | 192.168.5.62 | 255.255.255.192 |
| Interface f1/0 do router R2 | 180.43.171.1 | 255.255.255.0 |
| Interface e0/0 do router R3 | 180.43.170.254 | 255.255.255.128 |
| Interface f1/0 do router R3 | 180.43.171.2 | 255.255.255.0 |

Configuração dos computadores:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Computador PC-1 | Computador PC-2 | Computador PC-3 | Server |
| Endereço IP | 192.168.5.1 | 192.168.5.2 | 180.43.170.129 | 180.43.170.1 |
| Máscara de Rede | 255.255.255.192 | 255.255.255.192 | 255.255.255.128 | 255.255.255.128 |
| Endereço do default gateway | 192.168.5.62 | 192.168.5.62 | 180.43.170.254 | 180.43.170.126 |