

Redes de Teleinformática II - Práctico 6

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Tema: ACL, Permitir y denegar tráfico entre hosts y redes

Objetivo: Crear Access Lists para permitir o denegar el tráfico entre hosts y redes usando Cisco IOS.

Resolución del Práctico:

1. ACL de Host a Host

- Router(config)#access-list 100 deny ip 192.168.20.1 0.0.0.0 192.168.10.1 0.0.0.0
- Router(config)#access-list 100 deny ip 192.168.30.1 0.0.0.0 192.168.10.1 0.0.0.0
- Router(config)#access-list 100 deny ip 192.168.20.4 0.0.0.0 192.168.30.2 0.0.0.0
- Router(config)#access-list 100 deny ip 192.168.30.3 0.0.0.0 192.168.20.1 0.0.0.0
- Router(config)#access-list 100 permit ip any any
- Router(config)#interface fastEthernet 0/0
- Router(config-if)#ip access-group 100 in

2. ACL de Host a Red

- Router(config)#access-list 101 deny ip host 192.168.10.2 192.168.30.0 0.0.0.255
- Router(config)#access-list 101 permit ip any any
- Router(config)#interface fastEthernet 0/1
- Router(config-if)#ip access-group 101 in
- Router(config)#access-list 102 deny ip host 192.168.10.4 192.168.20.0 0.0.0.255
- Router(config)#access-list 102 permit ip host 192.168.10.4 192.168.30.0 0.0.0.255
- Router(config)#access-list 102 deny ip 192.168.10.0 0.0.0.255 192.168.30.0 0.0.0.255
- Router(config)#access-list 102 permit ip any any
- Router(config)#interface fastEthernet 0/1
- Router(config-if)#ip access-group 102 in
- Router(config)#access-list 103 permit ip host 192.168.30.3 192.168.20.0 0.0.0.255
- Router(config)#access-list 103 deny ip any any
- Router(config)#interface fastEthernet 0/1
- Router(config-if)#ip access-group 103 in

3. ACL de Red a Red

- Router(config)#access-list 104 deny ip 192.168.40.0 0.0.0.255 192.168.30.0 0.0.0.255
- Router(config)#access-list 104 permit ip any any
- Router(config)#interface fastEthernet 0/2
- Router(config-if)#ip access-group 104 in

4. ACL Extendida (por puerto TCP)

- Router(config)#access-list 105 deny tcp 192.168.20.1 0.0.0.0 192.168.10.9 0.0.0.0 eq 23
- Router(config)#access-list 105 permit ip any any
- Router(config)#interface fastEthernet 0/0

- Router(config-if)#ip access-group 105 out

Verificación:

Usar comandos 'ping' o 'telnet' según el caso y 'show access-lists' para comprobar los contadores de coincidencia.