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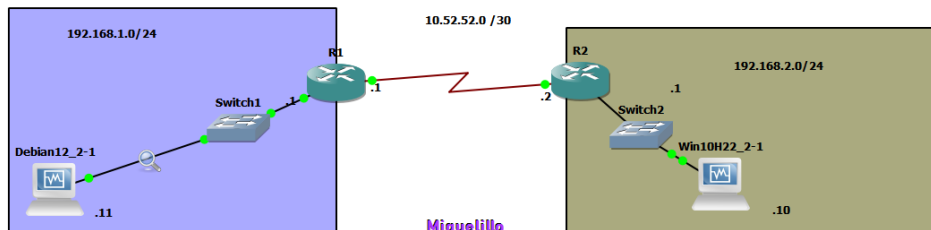
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Ejercicio 1

a) Crea un escenario (virtual o real) instalando y configurando un servidor FTP detrás de un cortafuegos/NATP y permite sólo conexiones pasivas en el servidor FTP.

Solución:

Escenario:



Configuración de R1

```

R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#
R1(config)#interface FastEthernet0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#
R1(config)#interface Serial1/0
R1(config-if)#ip address 10.52.52.1 255.255.255.252
R1(config-if)#no shutdown
R1(config-if)#
R1(config-if)#exit
R1(config)#
R1(config)#
R1(config)#int f0/0
R1(config-if)#ip nat inside
R1(config-if)#int s1/0
R1(config-if)#ip nat outside
R1(config-if)#$de source static tcp 192.168.1.10 20 10.52.52.1 20 extendable
R1(config)#$de source static tcp 192.168.1.10 21 10.52.52.1 21 extendable
R1(config)#
R1(config)#
R1(config)#router eigrp 1
R1(config-router)#eigrp router-id 1.1.1.1
R1(config-router)#network 192.168.1.0 0.0.0.255
R1(config-router)#network 10.52.52.0 0.0.0.3
R1(config-router)#exit
R1(config)#

```

Configuración R2

```

R2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#
R2(config)#interface FastEthernet0/0
R2(config-if)#ip address 192.168.2.1 255.255.255.0
R2(config-if)#no shutdown
R2(config-if)#exit
R2(config)#
R2(config)#interface Serial1/0
R2(config-if)#ip address 10.52.52.2 255.255.255.252
R2(config-if)#no shutdown
R2(config-if)#exit
R2(config)#
R2(config)#int f0/0
R2(config-if)#ip nat inside
R2(config-if)#int s1/0
R2(config-if)#ip nat outside
R2(config-if)#router eigrp 1
R2(config-router)#eigrp router-id 2.2.2.2
R2(config-router)#network 192.168.2.0 0.0.0.255
R2(config-router)#network 10.52.52.0 0.0.0.3
R2(config-router)#
R2(config-router)#exit
R2(config)#

```

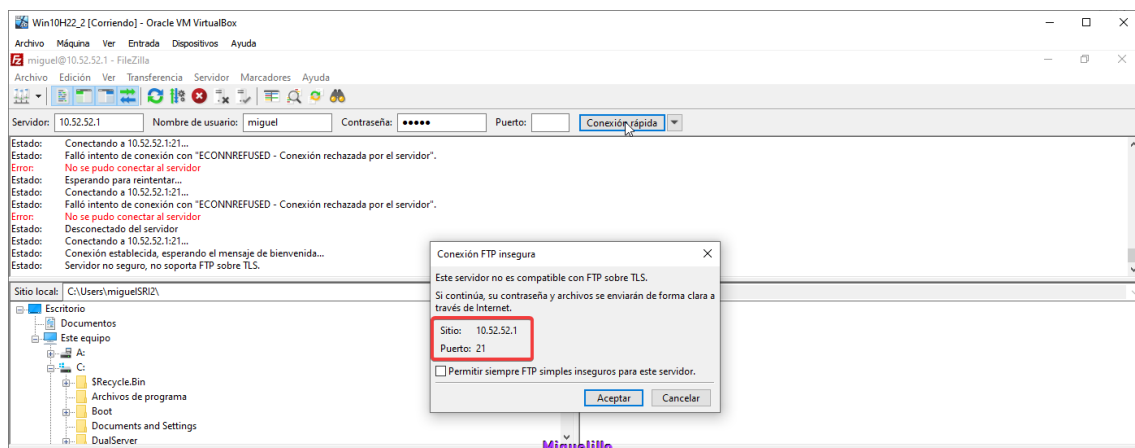
Activamos el modo pasivo y reiniciamos el servicio

```

miguel@debian-SRI: ~
/etcs/vsftpd.conf
anon_root=/var/ftp
#Para deshabilitar el modo pasivo y activar el modo activo
pasv_enable=YES
  
```

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Probamos a conectarnos desde el cliente



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Capturamos el tráfico

No.	Time	Source	Destination	Protocol	Length	Info
12	9.999903	192.168.2.10	192.168.1.10	FTP	64	Request: AUTH TLS
14	10.000417	192.168.1.10	192.168.2.10	FTP	92	Response: 530 Please login with USER and PASS.
15	10.001528	192.168.2.10	192.168.1.10	FTP	64	Request: AUTH SSL
16	10.002047	192.168.1.10	192.168.2.10	FTP	92	Response: 530 Please login with USER and PASS.
17	10.002695	192.168.2.10	192.168.1.10	FTP	67	Request: USER miguel
18	10.003287	192.168.1.10	192.168.2.10	FTP	88	Response: 331 Please specify the password.
19	10.133784	192.168.2.10	192.168.1.10	FTP	66	Request: PASS inves
20	10.161188	192.168.1.10	192.168.2.10	FTP	77	Response: 230 Login successful.
21	10.195759	192.168.2.10	192.168.1.10	FTP	60	Request: PWD
22	10.196273	192.168.1.10	192.168.2.10	FTP	99	Response: 257 "/home/miguel" is the current directory
348	23.211151	192.168.2.10	192.168.1.10	FTP	70	Request: CWD Plantillas
349	23.212178	192.168.1.10	192.168.2.10	FTP	91	Response: 250 Directory successfully changed.
350	23.252368	192.168.2.10	192.168.1.10	FTP	60	Request: PWD
351	23.252890	192.168.1.10	192.168.2.10	FTP	110	Response: 257 "/home/miguel/Plantillas" is the current directory
352	23.293776	192.168.2.10	192.168.1.10	FTP	62	Request: TYPE I
353	23.294302	192.168.1.10	192.168.2.10	FTP	85	Response: 200 Switching to Binary mode.
354	23.335003	192.168.2.10	192.168.1.10	FTP	60	Request: PASV
355	23.335528	192.168.1.10	192.168.2.10	FTP	104	Response: 227 Entering Passive Mode (192,168,1,10,146,86).
356	23.376176	192.168.2.10	192.168.1.10	FTP	60	Request: LIST
361	23.428133	192.168.1.10	192.168.2.10	FTP	93	Response: 150 Here comes the directory listing.
364	23.469336	192.168.1.10	192.168.2.10	FTP	78	Response: 226 Directory send OK.

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Miramos las traducciones del router

```

R1#show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
tcp 10.52.52.1:20       192.168.1.10:20   ---               ---
tcp 10.52.52.1:21       192.168.1.10:21   192.168.2.10:58588 192.168.2.10:58588
tcp 10.52.52.1:21       192.168.1.10:21   ---               ---
R1#
  
```

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