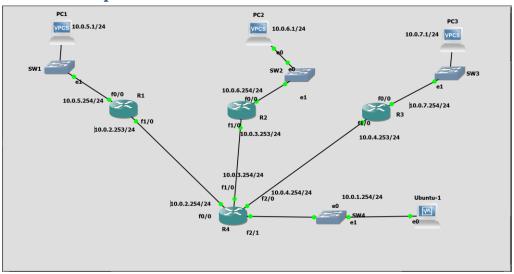
Enrutamiento Múltiple

Martínez Coronel Brayan Yosafat

Desarrollo de la práctica



Arquitectura requerida

```
R4(config)#username cisco pri
R4(config)#username cisco privilege 15 password cisco
R4(config)#username cisco privilege 15 password cisco
R4(config)#end
R4#
"Mar 27 12:49:39.795: %SYS-5-CONFIG_I: Configured from console by console
R4#copy running-config startup-config]
Building configuration...
[OK]
R4#show ip routes

A Invalid input detected at '^' marker.

R4#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, 0 - OSPF, IA - OSPF inter area
NI - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, F2 - OSPF external type 2
i - IS-IS, su - IS-IS summary, 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 not set

10.0.0.0/24 is subnetted, 4 subnets
10.0.2.0 is directly connected, FastEthernet0/0
C 10.0.3.0 is directly connected, FastEthernet1/0
C 10.0.1.0 is directly connected, FastEthernet2/1
C 10.0.4.0 is directly connected, FastEthernet2/0
R4#
```

Conexiones antes de correr la app en Flask

```
yosafat@yosafat-VirtualBox: ~/Escritorio/Redes/P4 Q = - □ 

yosafat@yosafat-VirtualBox: ~/Escritorio/Redes/P4$ flask run

* Serving Flask app "app"

* Environment: production
WARNING: This is a development server. Do not use it in a production deployme

nt.

Use a production WSGI server instead.

* Debug mode: off

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Corriendo la app

```
F1
                yosafat@yosafat-VirtualBox: ~/Escritorio/Redes/P4
                                                            Q
* Debug mode: off
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
Usuario: cisco
Password:
\mathfrak p'Terminal length \mathfrak p\r\mathfrak pR4#config t\mathfrak pr\mathfrak pnEnter configuration commands, one per line
  End with CNTL/Z.\r\nR4(config)#ip route 10.0.5.0 255.255.255.0 10.0.2.253\r\n
R4(config)#'
b'router rip\r\nR4(config-router)#'
b'no auto-summary\r\nR4(config-router)#'
b'version 2\r\nR4(config-router)#'
b'network 10.0.3.0\r\nR4(config-router)#'
b'network 10.0.7.0\r\nR4(config-router)#'
b'network 10.0.4.0\r\nR4(config-router)#'
b'network 10.0.1.0\r\nR4(config-router)#'
b'network 10.0.2.0\r\nR4(config-router)#'
b'network 10.0.5.0\r\nR4(config-router)#'
b'network 10.0.6.0\r\nR4(config-router)#'
b'redistribute static \r\nR4(config-router)#'
b'redistribute ospf 1 metric 5\r\nR4(config-router)#'
b'exit\r\nR4(config)#'
b'router ospf 1\r\nR4(config-router)#'
b'network 10.0.4.0 0.0.0.255 area 0\r\nR4(config-router)#'
```

Corriendo los comandos con Paramiko



Resultado de Flask

```
10.0.0.0/24 is subnetted, 4 subnets
10.0.2.0 is directly connected, FastEthernet1/0
10.0.3.0 is directly connected, FastEthernet2/0
10.0.3.0 is directly connected, FastEthernet2/0
10.0.4.0 is directly connected, FastEthernet2/0
10.0.5.0 is directly connected, S - static, R - RIP, M - mobile, B - BGP
10.0.5.0 is directly connected, S - Static, R - RIP, M - mobile, B - BGP
10.0.5.0 is directly connected, S - Static, R - RIP, M - mobile, B - BGP
10.0.5.0 is directly connected, S - Static, R - RIP, M - mobile, B - BGP
10.0.5.0 is directly connected, S - Static, R - RIP, M - mobile, B - BGP
10.0.5.0 is directly connected, S - Static, R - RIP, M - mobile, B - BGP
10.0.5.0 is directly connected, S - STATIC, R - RIP, M - mobile, B - BGP
10.0.5.0 is directly connected, S - STATIC, R - RIP, M - mobile, B - BGP
10.0.0.0 is directly connected, S - STATIC, R - RIP, M - mobile, B - BGP
10.0.0.0 is directly connected, S - STATIC, R - RIP, M - mobile, B - BGP
10.0.0.0 is directly connected, FastEthernet1/0
10.0.0.0 is directly connected, FastEthernet2/0
10.0.0 is directly connected, FastEthernet2/0
10.0.0 is directly connected, Fas
```

Conexiones después de correr los comandos

```
yosafat@yosafat-VirtualBox: ~/Escritorio/Redes/P4
                                                              Q
                                                                              b'redistribute static metric 200 subnets\r\nR4(config-router)#'
b'redistribute rip metric 200 subnets \r\nR4(config-router)#'
b'exit\r\nR4(config)#'
b'exit\r\nR4#'
127.0.0.1 - - [27/Mar/2022 13:01:07] "GET /configurar HTTP/1.1" 200 -
^Cyosafat@yosafat-VirtualBox:~/Escritorio/Redes/P4$ ping 10.0.7.1
PING 10.0.7.1 (10.0.7.1) 56(84) bytes of data.
64 bytes from 10.0.7.1: icmp_seq=1 ttl=62 time=3030 ms
64 bytes from 10.0.7.1: icmp_seq=2 ttl=62 time=2005 ms
64 bytes from 10.0.7.1: icmp_seq=3 ttl=62 time=981 ms
64 bytes from 10.0.7.1: icmp_seq=4 ttl=62 time=33.4 ms
64 bytes from 10.0.7.1: icmp_seq=5 ttl=62 time=22.2 ms
64 bytes from 10.0.7.1: icmp_seq=6 ttl=62 time=33.1 ms
64 bytes from 10.0.7.1: icmp_seq=7 ttl=62 time=26.3 ms
64 bytes from 10.0.7.1: icmp_seq=8 ttl=62 time=30.5 ms
64 bytes from 10.0.7.1: icmp seg=9 ttl=62 time=38.8 ms
64 bytes from 10.0.7.1: icmp_seq=10 ttl=62 time=29.0 ms
64 bytes from 10.0.7.1: icmp seg=11 ttl=62 time=29.9 ms
64 bytes from 10.0.7.1: icmp_seq=12 ttl=62 time=34.1 ms
64 bytes from 10.0.7.1: icmp_seq=13 ttl=62 time=37.2 ms
64 bytes from 10.0.7.1: icmp_seq=14 ttl=62 time=39.2 ms
64 bytes from 10.0.7.1: icmp_seq=15 ttl=62 time=31.4 ms
64 bytes from 10.0.7.1: icmp_seq=16 ttl=62 time=24.7 ms
64 bytes from 10.0.7.1: icmp_seq=17 ttl=62 time=33.2 ms
```

Ping desde la máquina virtual