

Instituto Tecnológico de Estudios Superiores Monterrey

Campus Querétaro

Actividad 03: Configuración de equipos de interconexión para un museo

Profesor:

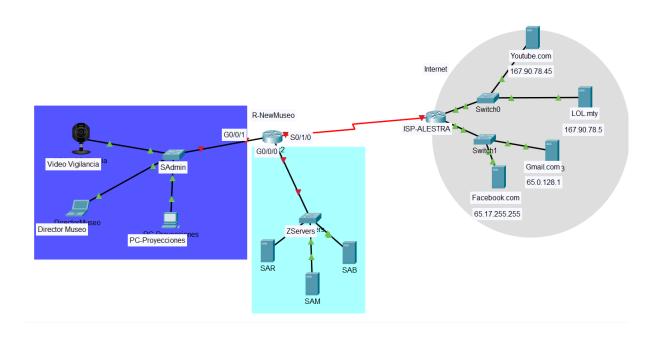
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Presenta:

Esteban Padilla Cerdio

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Fecha de entrega: 10/13/2022



Dispositivo	Interfaz	IP Address	Prefijo de red	Default Gateway
R-NewMuseo	G0/0/0	221.128.237.238	/28	N/A
	G0/0/1	221.128.237.190	/26	N/A
	S0/1/0	223.255.255.114	/30	N/A
Switch				
ZS ervers	VLAN 1	221.128.237.237	/28	221.128.237.238
Switch				
SAdmin	VLAN 1	221.128.237.189	/26	221.128.237.190
Director Museo	NIC	221.128.237.129	/26	221.128.237.190
PC-Proyecciones	NIC	221.128.237.130	/26	221.128.237.190
Video Vigilancia	NIC	221.128.237.131	/26	221.128.237.190
SAB	NIC	221.128.237.225	/28	221.128.237.238
SAM	NIC	221.128.237.226	/28	221.128.237.238
SAR	NIC	221.128.237.227	/28	221.128.237.238

Configuración del router

!===============

! Cambiar al modo privilegiado enable

! Establecer hora y fecha clock set 22:00:00 Oct 13 2022

! Configuración global del equipo configure terminal

! Banner banner motd # Estás entrando al equipo R-NewMuseo, que está protegido. Si decides entrar estás cometiendo un delito. #

! Nombrar el equipo hostname R-NewMuseo

! Deshabilitar el DNS no ip domain-lookup

! Proteger y cifrar todos los passwords service password-encryption

! Cambiar al modo privilegiado enable secret class

! Protección de la línea de la consola line console 0 password cisco login logging sync

! Protección para el acceso remoto line vty 0 4 password cisco login logging sync

! Configuración de interfaces interface G0/0/0 description Interfaz que da servicio a la red local de los servidores ip address 221.128.237.238 255.255.255.240 no shutdown

interface G0/0/1 description Interfaz que da servicio a la red local de administración ip address 221.128.237.190 255.255.255.192 no shutdown

interface s0/1/0 description Interfaz con el ISP ip address 223.255.255.114 255.255.255.252 no shutdown

ip route 0.0.0.0 0.0.0.0 s0/1/0

Configuración del switch ZServers

! Cambiar al modo privilegiado enable

! Establecer hora y fecha clock set 22:00:00 Oct 13 2022

! Configuración global del equipo configure terminal

! Banner banner motd # Estás entrando al equipo ZServers, que está protegido. Si decides entrar estás cometiendo un delito. #

! Nombrar el equipo hostname ZServers

! Deshabilitar el DNS no ip domain-lookup

! Proteger y cifrar todos los passwords service password-encryption

! Establecer el modo de seguridad! Cambiar al modo privilegiado enable secret class

! Protección de la línea de la consola line console 0 password cisco login logging sync

! Protección para el acceso remoto line vty 0 15 password cisco login logging sync

! Asignación de IP a la VLAN 1 (SVI) interface vlan 1 ip address 221.128.237.237 255.255.255.240 description Dirección IP para el equipo ZServers no shutdown

ip default-gateway 221.128.237.238

Configuración del switch SAdmin

!-----! Configuración del switch SAdmin

- ! Cambiar al modo privilegiado enable
- ! Establecer hora y fecha clock set 22:00:00 Oct 13 2022
- ! Configuración global del equipo configure terminal
- ! Banner banner motd # Estás entrando al equipo SAdmin, que está protegido. Si decides entrar estás cometiendo un delito. #
- ! Nombrar el equipo hostname SAdmin
- ! Deshabilitar el DNS no ip domain-lookup
- ! Proteger y cifrar todos los passwords service password-encryption
- ! Establecer el modo de seguridad ! Cambiar al modo privilegiado enable secret class
- ! Protección de la línea de la consola line console 0 password cisco login logging sync
- ! Protección para el acceso remoto line vty 0 15 password cisco login logging sync
- ! Asignación de IP a la VLAN 1 (SVI) interface vlan 1 ip address 221.128.237.189 255.255.255.192 description Dirección IP para el equipo SAdmin no shutdown

ip default-gateway 221.128.237.190

Prueba de configuración (show running)

ZServers



SAdmin

```
SAdmin S
 Physical Config CLI Attributes
  Building configuration...
  Current configuration: 1506 bytes
  no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
  hostname SAdmin
  enable secret 5 $1$mERr$9cTjUIEqNGurQiFU.ZeCi1
  no ip domain-lookup
  spanning-tree mode pvst
  spanning-tree extend system-id
  interface FastEthernet0/1
   interface FastEthernet0/2
  interface FastEthernet0/3
  interface FastEthernet0/4
  interface FastEthernet0/5
  interface FastEthernet0/6
  interface FastEthernet0/7
  interface FastEthernet0/8
  interface FastEthernet0/9
  interface FastEthernet0/10
```

R-NewMuseo

PING a los servidores

Desde PC Proyecciones

```
Physical Config Desktop Programming Attributes

Command Prompt

Fackets: Sent = 4, Necested = 3, Bost = 1 (23% 1088),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\ping 221.128.237.225 with 32 bytes of data:

Reply from 221.128.237.225 bytes=32 time<\lambda TTL=127

Reply from 221.128.237.225: bytes=32 time<\lambda TTL=127

Reply from 221.128.237.225: bytes=32 time<\lambda TTL=127

Reply from 221.128.237.225: bytes=32 time<\lambda TTL=127

Ping statistics for 221.128.237.225:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 7ms, Average = 1ms

C:\ping 221.128.237.226

Pinging 221.128.237.226 with 32 bytes of data:

Reply from 221.128.237.226 bytes=32 time<\lambda TTL=127

Reply from 221.128.237.226: bytes=32 time<\lambda TTL=127

Ping statistics for 221.128.237.226:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 12ms, Average = 4ms

C:\ping 221.128.237.227

Pinging 221.128.237.227 bytes=32 time<\lambda TTL=127

Reply from 221.128.237.227 bytes=32 time<\lambda TTL=127

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
M
```

Desde DirectorMuseo

```
Physical Config Desktop Programming Attributes
Command Prompt
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms
 C:\>ping 221.128.237.225
Pinging 221.128.237.225 with 32 bytes of data:
Reply from 221.128.237.225: bytes=32 time<1ms TTL=127 Reply from 221.128.237.225: bytes=32 time<1ms TTL=127 Reply from 221.128.237.225: bytes=32 time<1ms TTL=127 Reply from 221.128.237.225: bytes=32 time<1ms TTL=127
Ping statistics for 221.128.237.225:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
 C:\>ping 221.128.237.226
Pinging 221.128.237.226 with 32 bytes of data:
Reply from 221.128.237.226: bytes=32 time=11ms TTL=127
Reply from 221.128.237.226: bytes=32 time=1ms TTL=127
Reply from 221.128.237.226: bytes=32 time<1ms TTL=127
Reply from 221.128.237.226: bytes=32 time<1ms TTL=127
Ping statistics for 221.128.237.226:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 11ms, Average = 4ms
C:\>ping 221.128.237.227
Pinging 221.128.237.227 with 32 bytes of data:
Reply from 221.128.237.227: bytes=32 time<1ms TTL=127
Ping statistics for 221.128.237.227:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Desde Video Vigilancia

```
Specifications I/O Config Physical Config Desktop Thing Editor Progrations

Command Prompt

Cisco Packet Tracer Thing Command Line 1.0 root@Thing:/>ping 221.128.237.225

Pinging 221.128.237.225 with 32 bytes of data:

Reply from 221.128.237.225: bytes=32 time<lms TTL=127

Ping statistics for 221.128.237.225:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Ims, Average = Oms

root@Thing:/>ping 221.128.237.226

Pinging 221.128.237.226 with 32 bytes of data:

Reply from 221.128.237.226: bytes=32 time<lms TTL=127

Ping statistics for 221.128.237.226:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms

root@Thing:/>ping 221.128.237.227

Pinging 221.128.237.227: bytes=32 time<lms TTL=127

Reply from 221.128.237.22
```

PING a los switches y al router

Desde Video Vigilancia

```
Specifications Physical Config Desktop Attributes

Command Prompt

Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms

root@Thing:/>ping 221.128.237.189

Pinging 221.128.237.189 with 32 bytes of data:

Reply from 221.128.237.189: bytes=32 time<Ims TTL=255

Ping statistics for 221.128.237.189:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms

root@Thing://>ping 221.128.237.190

Pinging 221.128.237.190 with 32 bytes of data:

Reply from 221.128.237.190: bytes=32 time<Ims TTL=255

Reply from 221.128.237.237.190: bytes=32 time<Ims TTL=255

Reply from 221.128.237.237.37.37.37

Pinging 221.128.237.237 with 32 bytes of data:

Reply from 221.128.237.237 bytes=32 time<Ims TTL=254

Reply from 221.128.237.237: bytes=32 time<Ims TTL=254

Ping statistics for 221.128.237.237: bytes=32 time<Ims TTL=254

Ping statistics for 221.128.237.237: bytes=32 time<Ims TTL=254

Ping statistics for 221.128.237.237: bytes=32 time<Ims TTL=254

Reply from 221.128.237.237: bytes=32
```

Desde Director Museo

```
Physical Config Desktop Programming Attributes

Command Prompt

Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms

C:\ping 221.128.237.237

Pinging 221.128.237.237 with 32 bytes of data:

Reply from 221.128.237.237; bytes=32 time<lms TTL=254
Ping statistics for 221.128.237.237;

    Fackets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms

C:\ping 221.128.237.189

Pinging 221.128.237.189 with 32 bytes of data:

Request timed out.
Reply from 221.128.237.189; bytes=32 time<lms TTL=255
Reply from 221.128.237.189; bytes=32 time<lms TTL=255
Reply from 221.128.237.189; bytes=32 time<lms TTL=255
Ping statistics for 221.128.237.189;

    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms

C:\ping 221.128.237.190

Pinging 221.128.237.190 bytes=32 time<lms TTL=255
Reply from 221.128.237.190; bytes=32 time<lms TTL=255
Reply from 221.128.23
```

Desde PC Proyecciones

```
Physical Config Desktop Programming Attributes

Command Prompt

Fackets. Sent = 7, Received = 7, Bost = 0 (0% 1085),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 7ms, Average = 1ms

C:\>ping 221.128.237.237

Pinging 221.128.237.237 with 32 bytes of data:

Reply from 221.128.237.237: bytes=32 time<1ms TTL=254
Ping statistics for 221.128.237.237:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 221.128.237.189

Pinging 221.128.237.189 with 32 bytes of data:

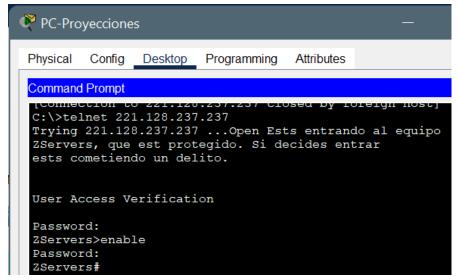
Request timed out.
Reply from 221.128.237.189: bytes=32 time<1ms TTL=255
Reply from 221.128.237.189: bytes=32 time<1ms TTL=255
Reply from 221.128.237.189: bytes=32 time<1ms TTL=255
Reply from 221.128.237.190: bytes=32 time<1ms TTL=255
Reply from 221.128.237.190

Pinging 221.128.237.190

Pinging 221.128.237.190 with 32 bytes of data:

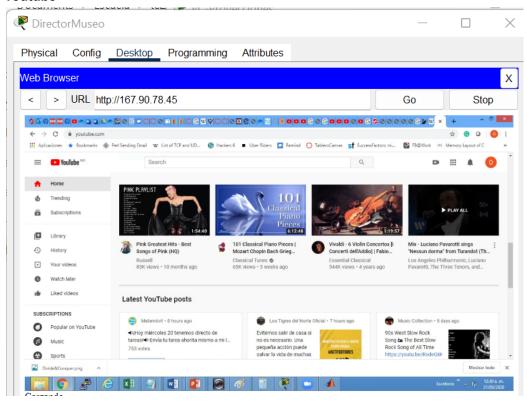
Reply from 221.128.237.190 bytes=32 time<1ms TTL=255
Reply from 221.128.237.190: bytes=32
```

Acceso a ZServers por medio de Telnet

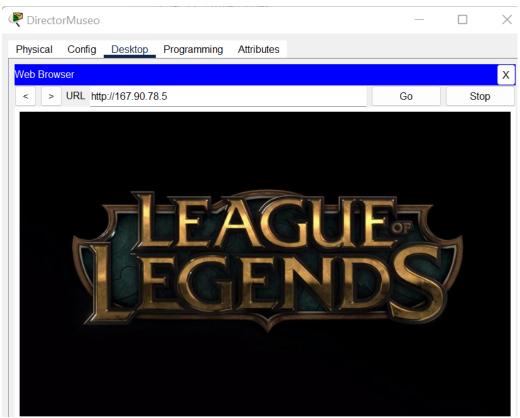


Acceso a la Web

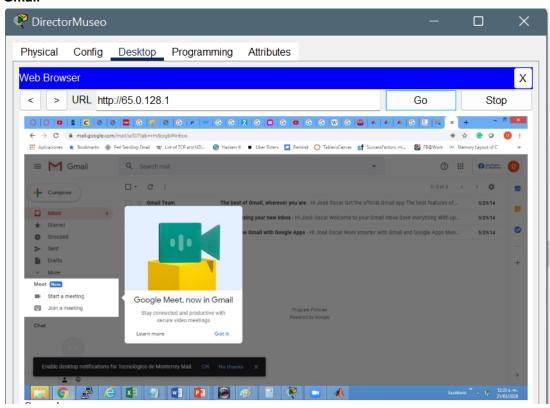
Youtube



LOL



Gmail



Facebook

