



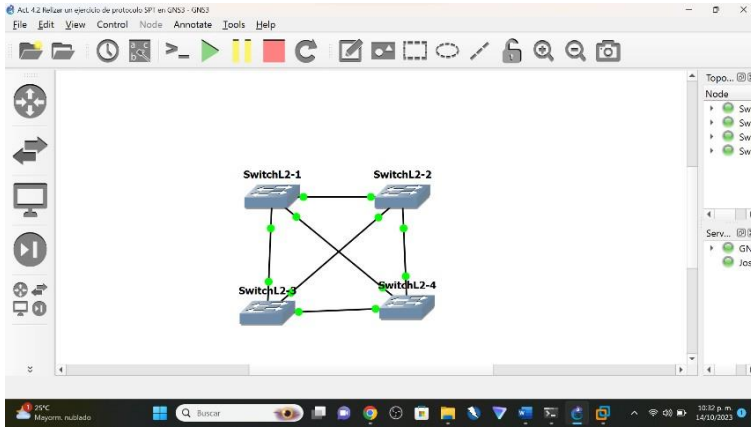
# **UNIVERSIDAD AUTONOMA DE CHIAPAS**

**VELAZQUEZ MARTINEZ EDGAR ALEJANDRO**

**LUIS ALFARO GUTIERREZ**

**CONMUTADORES Y REDES INALAMBBRICAS**

**7 M**



```
SwitchL2-1 - PuTTY
VIOS-L2-01>enable
VIOS-L2-01#conf t
Enter configuration commands, one per line. End with CNTL/Z.
VIOS-L2-01(config)#hostname Switch1
Switch1(config)#enable secret cisco
Switch1(config)#no ip domain lookup
Switch1(config)#interface Vlan1
Switch1(config-if)#ip address
*Oct 15 03:29:53.194: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, cha
nged state to down
Switch1(config-if)#ip address 192.168.11.1 255.255.255.0
Switch1(config-if)#no sh
Switch1(config-if)#line
*Oct 15 03:30:20.950: %LINK-3-UPDOWN: Interface Vlan1, changed state to up
*Oct 15 03:30:21.976: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, cha
nged state to up
Switch1(config-if)#line con 0
Switch1(config-line)#exec-timeout 0 0
Switch1(config-line)#logging synchronous
Switch1(config-line)#password cisco2
Switch1(config-line)#login
Switch1(config-line)#exit
Switch1(config)#line vty 0 15
Switch1(config-line)#logging synchronous
Translating 'synchronous'
% Invalid input detected at '^' marker.
Switch1(config-line)#logging synchronous
Switch1(config-line)#password cisco3
Switch1(config-line)#login
Switch1(config-line)#end
Switch1#copy
*Oct 15 03:32:41.688: %SYS-5-CONFIG-I: Configured from console by console
Switch1#copy running-config startup-config
```

```
SwitchL2-2 - PuTTY
* Unauthorized use or distribution of this software is expressly
* Prohibited.
VIOS-L2-01>ena
VIOS-L2-01#conf t
Enter configuration commands, one per line. End with CNTL/Z.
VIOS-L2-01(config)#hostname switch2
switch2(config)#enable secret cisco
switch2(config)#no ip domain lookup
switch2(config)#interface Vlan1
switch2(config-if)#ip address
*Oct 15 03:35:36.539: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, cha
nged state to down
switch2(config-if)#ip address 192.168.11.2 255.255.255.0
switch2(config-if)#no sh
switch2(config-if)#line con
*Oct 15 03:36:04.103: %LINK-3-UPDOWN: Interface Vlan1, changed state to up
*Oct 15 03:36:05.877: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, cha
nged state to up
switch2(config-if)#line con 0
switch2(config-line)#exec-timeout 0 0
switch2(config-line)#logging synchronous
switch2(config-line)#password cisco2
switch2(config-line)#login
switch2(config-line)#exit
switch2(config)#line vty 0 15
switch2(config-line)#logging synchronous
switch2(config-line)#password cisco3
switch2(config-line)#login
switch2(config-line)#end
switch2#copy
*Oct 15 03:37:35.010: %SYS-5-CONFIG-I: Configured from console by console
switch2#copy running-config startup-config
```

```
SwitchL2-3 - PuTTY
VIOS-L2-01>ena
VIOS-L2-01#conf t
Enter configuration commands, one per line. End with CNTL/Z.
VIOS-L2-01(config)#hostname switch3
switch3(config)#enable secret cisco
switch3(config)#no ip domain lookup
switch3(config)#interface Vlan1
switch3(config-if)#ip address
*Oct 15 03:39:33.109: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, cha
nged state to down
switch3(config-if)#ip address 192.168.11.3 255.255.255.0
switch3(config-if)#no sh
switch3(config-if)#line con 0
switch3(config-line)#exe
*Oct 15 03:39:42.695: %LINK-3-UPDOWN: Interface Vlan1, changed state to up
*Oct 15 03:39:43.695: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, cha
nged state to up
switch3(config-line)#exec-timeout 0 0
switch3(config-line)#logging synchronous
switch3(config-line)#password cisco2
switch3(config-line)#login
switch3(config-line)#exit
switch3(config)#line vty 0 15
switch3(config-line)#logging synchronous
switch3(config-line)#password cisco3
switch3(config-line)#login
switch3(config-line)#end
switch3#
*Oct 15 03:40:21.060: %SYS-5-CONFIG-I: Configured from console by console
switch3#copy running-config startup-config
```

```
SwitchL2-4 - PuTTY
VIOS-L2-01>ena
VIOS-L2-01#conf t
Enter configuration commands, one per line. End with CNTL/Z.
VIOS-L2-01(config)#hostname switch4
switch4(config)#enable secret cisco
switch4(config)#no ip domain lookup
switch4(config)#interface Vlan1
switch4(config-if)#ip address
*Oct 15 03:41:01.443: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, cha
nged state to down
switch4(config-if)#ip address
% unrecognized command
switch4(config-if)#ip address 192.168.11.4 255.255.255.0
switch4(config-if)#no sh
switch4(config-if)#line con 0
switch4(config-line)#exe
*Oct 15 03:41:35.355: %LINK-3-UPDOWN: Interface Vlan1, changed state to up
*Oct 15 03:41:36.355: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, cha
nged state to up
switch4(config-line)#exec-timeout 0 0
switch4(config-line)#logging synchronous
switch4(config-line)#password cisco2
switch4(config-line)#login
switch4(config-line)#exit
switch4(config)#line vty 0 15
switch4(config-line)#logging synchronous
switch4(config-line)#password cisco3
switch4(config-line)#login
switch4(config-line)#exit
switch4(config)#copy running-config startup-config
```

```
Act. 4.2 Realizar un ejercicio de protocolo SPT en GNS3 - GNS3
SwitchL2-1 - PuTTY
Keepalive set (10 sec)
Unknown, Unknown, link type is auto, media type is unknown media type
output flow-control is unsupported, input flow-control is unsupported
Auto-duplex, Auto-speed, link type is auto, media type is unknown
input flow-control is off, output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input never, output never, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/0 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
0 packets input, 0 bytes, 0 no buffer
Received 0 broadcasts (0 multicasts)
0 runs, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
0 watchdog, 0 multicast, 0 pause input
--More--
*Oct 15 03:46:40.967: %SYS-5-CONFIG_I: Configured from console by console
Switch1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch1(config)#interface range gigabitEthernet 0/1 - 3
Switch1(config-if-range)#exit
Switch1(config)#interface range gigabitEthernet 1/1 - 3
Switch1(config-if-range)#switchport mode trunk
Command rejected: An interface whose trunk encapsulation is "Auto" can not be co
nfigured to "trunk" mode.
% Range command terminated because it failed on GigabitEthernet1/1
Switch1(config-if-range)#no sh
Switch1(config-if-range)#
Switch1#
*Oct 15 03:46:40.967: %SYS-5-CONFIG_I: Configured from console by console
Switch1#
```

```
Act. 4.2 Realizar un ejercicio de protocolo SPT en GNS3 - GNS3
Switch2-2 - PuTTY
[2000]msec (372/0),process = Async write process.
*Oct 15 03:39:03.331: %GRUB-5-CONFIG_WRITING: GRUB configuration is being update
d on disk. Please wait...
*Oct 15 03:39:11.049: %GRUB-5-CONFIG_WRITTEN: GRUB configuration was written to
disk successfully.
Switch2#
*Oct 15 03:40:20.637: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth
ernet0/1, changed state to down
Switch2#
*Oct 15 03:46:30.306: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth
ernet0/1, changed state to down
Switch2#
*Oct 15 03:46:31.322: %LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed stat
e to down
Switch2#
*Oct 15 03:46:36.337: %LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed stat
e to up
Switch2#
*Oct 15 03:46:37.337: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth
ernet0/1, changed state to up
Switch2#
Switch2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch2(config)#interface range fastEthernet 1/1 - 3
Switch2(config-if-range)#switchport mode trunk
Command rejected: An interface whose trunk encapsulation is "Auto" can not be co
nfigured to "trunk" mode.
% Range command terminated because it failed on GigabitEthernet1/1
Switch2(config-if-range)#no sh
Switch2(config-if-range)#exit
Switch2(config)#
```

```
Act. 4.2 Realizar un ejercicio de protocolo SPT en GNS3 - GNS3
SwitchL2-3 - PuTTY
*Oct 15 03:41:20.264: %SYS-3-CPUHOG: Task is running for (1998)msec, more than
(2000)msec (51/0),process = Async write process.
*Oct 15 03:41:22.476: %SYS-3-CPUHOG: Task is running for (3998)msec, more than
(2000)msec (104/0),process = Async write process.
*Oct 15 03:41:24.883: %GRUB-5-CONFIG_WRITING: GRUB configuration is being update
d on disk. Please wait...
*Oct 15 03:41:27.031: %GRUB-5-CONFIG_WRITTEN: GRUB configuration was written to
disk successfully.
Switch3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch3(config)#interface range gigabitEthernet 1/1 - 3
Switch3(config-if-range)#switchport mode trunk
Command rejected: An interface whose trunk encapsulation is "Auto" can not be co
nfigured to "trunk" mode.
% Range command terminated because it failed on GigabitEthernet1/1
Switch3(config-if-range)#switchport mode trunk
Command rejected: An interface whose trunk encapsulation is "Auto" can not be co
nfigured to "trunk" mode.
% Range command terminated because it failed on GigabitEthernet1/1
Switch3(config-if-range)#no sh
Switch3(config-if-range)#
Switch3#
*Oct 15 03:48:46.938: %SYS-5-CONFIG_I: Configured from console by console
Switch3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch3(config)#interface range gigabitEthernet 1/1 - 3
Switch3(config-if-range)#switchport trunk encapsulation dot1q
Switch3(config-if-range)#switchport mode trunk
Switch3(config-if-range)#no sh
Switch3(config-if-range)#
```

```
Act. 4.2 Realizar un ejercicio de protocolo SPT en GNS3 - GNS3
SwitchL2-4 - PuTTY
*Oct 15 03:42:54.495: %GRUB-5-CONFIG_WRITING: GRUB configuration is being update
d on disk. Please wait...
*Oct 15 03:42:57.006: %GRUB-5-CONFIG_WRITTEN: GRUB configuration was written to
disk successfully.
Switch4#
*Oct 15 03:45:43.269: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth
ernet0/2, changed state to down
Switch4#
*Oct 15 03:45:44.272: %LINK-3-UPDOWN: Interface GigabitEthernet0/2, changed stat
e to down
Switch4#
*Oct 15 03:45:49.280: %LINK-3-UPDOWN: Interface GigabitEthernet0/2, changed stat
e to up
Switch4#
*Oct 15 03:45:50.289: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth
ernet0/2, changed state to up
Switch4#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch4(config)#interface range gigabitEthernet 1/1 - 3
Switch4(config-if-range)#switchport mode trunk
Command rejected: An interface whose trunk encapsulation is "Auto" can not be co
nfigured to "trunk" mode.
% Range command terminated because it failed on GigabitEthernet1/1
Switch4(config-if-range)#no sh
Switch4(config-if-range)#
Switch4#
*Oct 15 03:48:58.548: %SYS-5-CONFIG_I: Configured from console by console
Switch4#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch4(config)#interface range gigabitEthernet 1/1 - 3
Switch4(config-if-range)#switchport trunk encapsulation dot1q
Switch4(config-if-range)#switchport mode trunk
Switch4(config-if-range)#no sh
Switch4(config-if-range)#exit
Switch4(config)#
```



