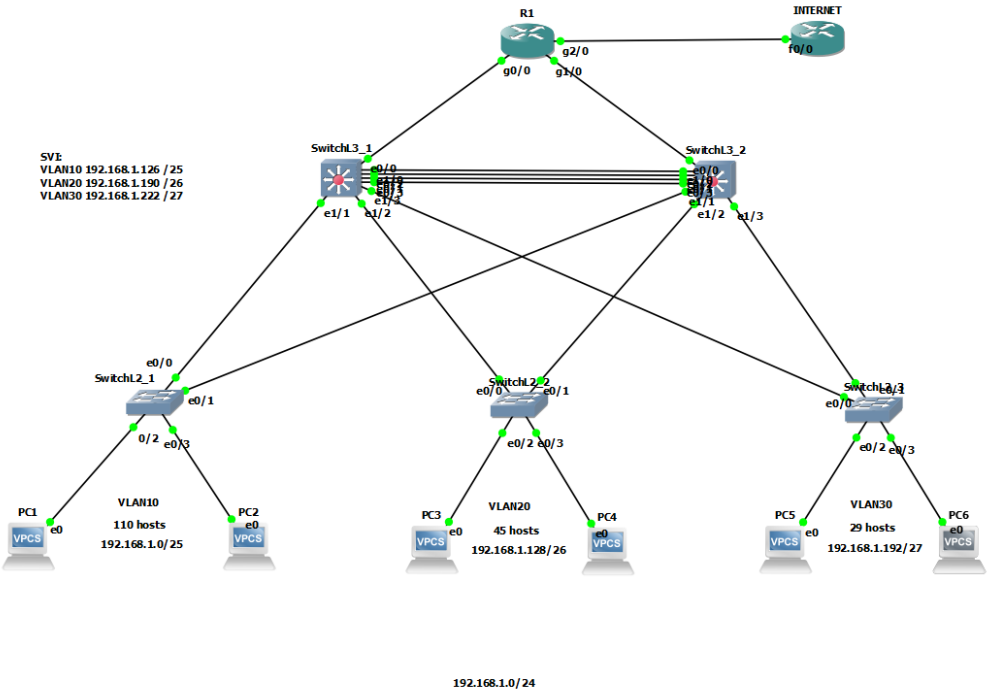
PROJEKT




1. Konfiguracja IP hostów oraz domyślnej bramki:


PC1
PC2
PC3
PC4
PC5
PC6
PC1>
PC1> ip 192.168.1.1/25 192.168.1.126
Checking for duplicate address...
PC1 : 192.168.1.1 255.255.255.128 gateway 192.168.1.126
PC1>
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Solar-PuTTY free tool
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PC1
PC2
PC3
PC4
PC5
PC6
ip 192.168.1.2/25 192.168.1.126
Checking for duplicate address...
PC2 : 192.168.1.2 255.255.255.128 gateway 192.168.1.126
PC2>
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PC1
PC2
PC3
PC4
PC5
PC6
ip 192.168.1.129/26 192.168.1.190
Checking for duplicate address...
PC3 : 192.168.1.129 255.255.255.192 gateway 192.168.1.190
PC3>
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PC1
PC2
PC3
PC4
PC5
PC6
ip 192.168.1.130/26 192.168.1.190
Checking for duplicate address...
PC4 : 192.168.1.130 255.255.255.192 gateway 192.168.1.190
PC4>
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2. Konfiguracja VLANÓW na switchach L2:


SwitchL2_1
SwitchL2_2
SwitchL2_3
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#
SwitchL2_2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SwitchL2_2(config)#int ra
SwitchL2_2(config)#int range e0/2 - 3
SwitchL2_2(config-if-range)#swi
SwitchL2_2(config-if-range)#switchport ?
access Set access mode characteristics of the interface
autostate Include or exclude this port from vlan link up calculation
dot1q Set interface dot1q properties
host Set port host
mode Set trunking mode of the interface
port-security Security related command
private-vlan Set the private VLAN configuration
trunk Set trunking characteristics of the interface
voice Voice appliance attributes
<cr>
SwitchL2_2(config-if-range)#switchport acc
SwitchL2_2(config-if-range)#switchport access ?
vlan Set VLAN when interface is in access mode
SwitchL2_2(config-if-range)#switchport access vlan 20
% Access VLAN does not exist. Creating vlan 20
SwitchL2_2(config-if-range)#
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SwitchL2_1
SwitchL2_2
SwitchL2_3
*Jul 26 19:40:12.076: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet2/
1, changed state to up
*Jul 26 19:40:12.092: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet2/
2, changed state to up
*Jul 26 19:40:12.107: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet2/
3, changed state to up
*Jul 26 19:40:12.107: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet3/
0, changed state to up
*Jul 26 19:40:12.123: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet3/
1, changed state to up
*Jul 26 19:40:12.141: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet3/
2, changed state to up
*Jul 26 19:40:12.150: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet3/
3, changed state to up
*Jul 26 19:40:12.700: %LINK-5-CHANGED: Interface Vlan1, changed state to adminis
tratively down
SwitchL2_3#
SwitchL2_3#
SwitchL2_3#
SwitchL2_3#
SwitchL2_3#
SwitchL2_3#
SwitchL2_3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SwitchL2_3(config)#int ra
SwitchL2_3(config)#int range e02 - 3
^
% Invalid input detected at '^' marker.
SwitchL2_3(config)#int range e02-3
^
% Invalid input detected at '^' marker.
SwitchL2_3(config)#int range e0/2 - 3
SwitchL2_3(config-if-range)#swi
SwitchL2_3(config-if-range)#switchport access vlan 30
% Access VLAN does not exist. Creating vlan 30
SwitchL2_3(config-if-range)#
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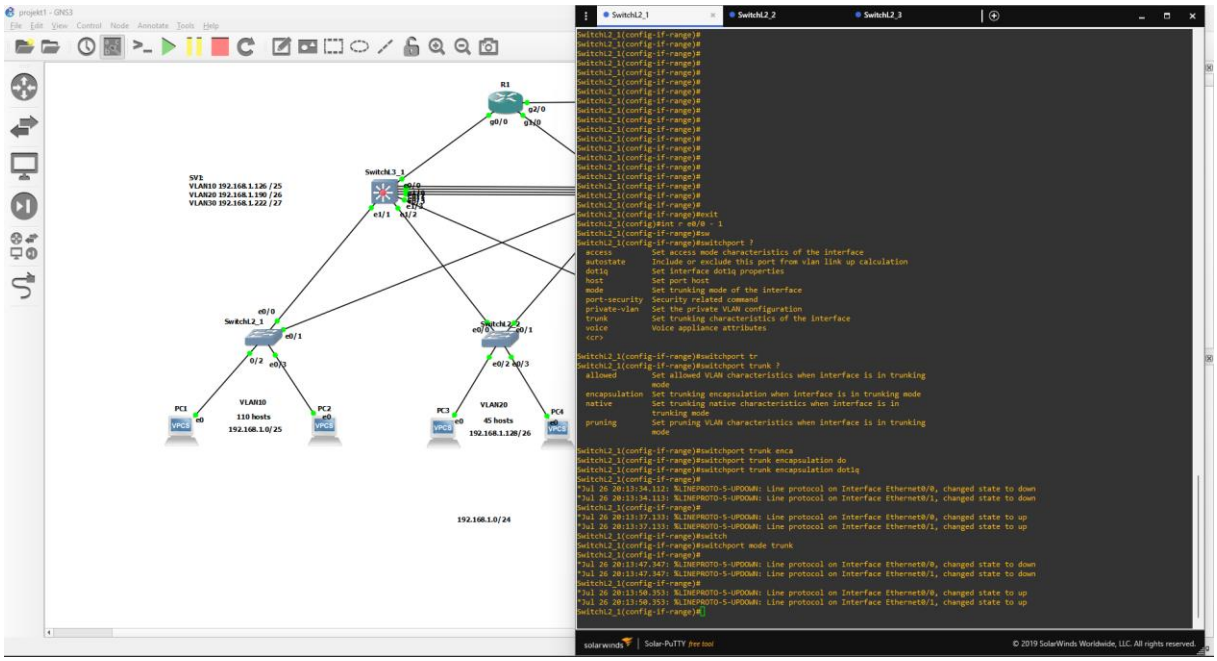
3. Konfiguracja VTP (Trunk) – DOT1Q




Dla pozostałych switchów L2 zrobiłem dokładnie to samo

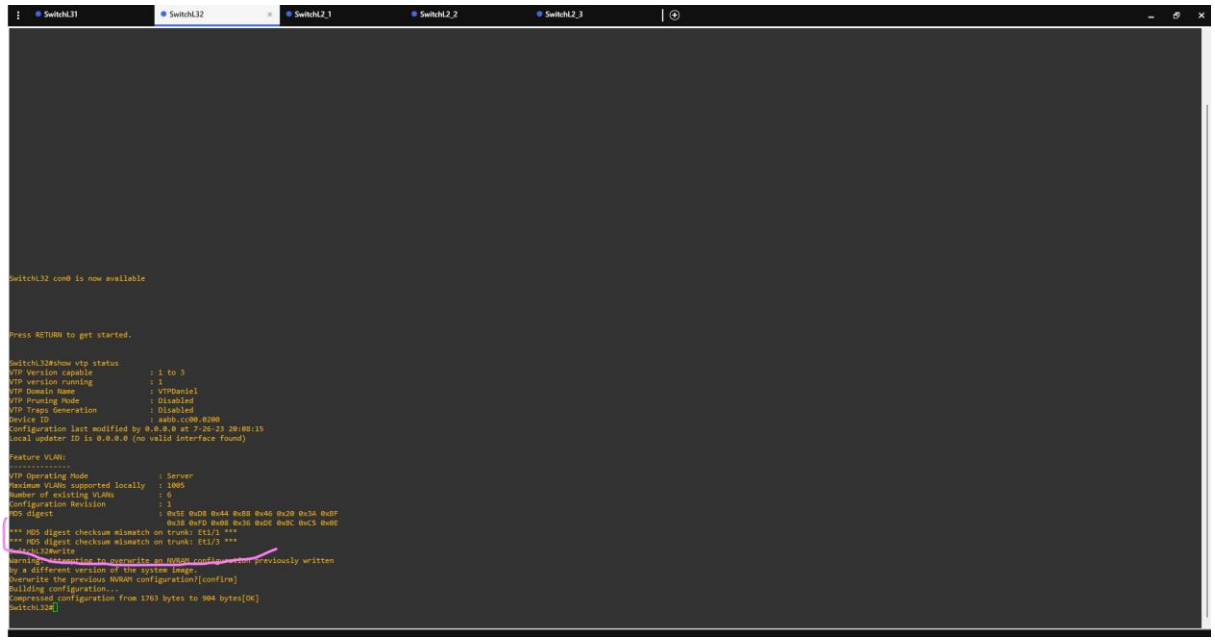
```
!
!
!
interface Ethernet0/0
 switchport trunk encapsulation dot1q
 switchport mode trunk
 duplex auto
!
interface Ethernet0/1
 switchport trunk encapsulation dot1q
 switchport mode trunk
 duplex auto
!
interface Ethernet0/2
 switchport access vlan 10
 duplex auto
!
interface Ethernet0/3
 switchport access vlan 10
 duplex auto
!
```

4. Ustawienia na switchach domeny VTPDaniel



Weryfikacja VLANOW na switchac

**Miałem problem z synchronizacją VTP Domain. Problem rozwiazalem tworząc nieuzywany VLAN999**


Switch(L31
Switch(L32
Switch(L2_1
Switch(L2_2
Switch(L2_3
Switch(L32 con0 is now available
Press RETURN to get started.
Switch(L32#show vtp status
VTP Version capable : 1 to 3
VTP version running : 1
VTP Domain Name : VTPDaniel
VTP Pruning Mode : Disabled
VTP Traps Generation : Disabled
Device ID : aabb.cc00.0200
Configuration last modified by 0.0.0.0 at 7-26-23 20:08:15
Local updater ID is 0.0.0.0 (no valid interface found)
Feature VLAN:
VTP Operating Mode : Server
Maximum VLANs supported locally : 1005
Number of existing VLANs : 6
Configuration Revision : 1
MD5 digest : 0x5E 0xD8 0x44 0x88 0x46 0x20 0x3A 0x8F
0x38 0xFD 0x08 0x36 0xDE 0x8C 0xC5 0x0E
*** MD5 digest checksum mismatch on trunk: Et1/1 ***
*** MD5 digest checksum mismatch on trunk: Et1/3 ***
Switch(L32#write
Warning: Attempting to overwrite an NVRAM configuration previously written
by a different version of the system image.
Overwrite the previous NVRAM configuration?[confirm]
Building configuration...
Compressed configuration from 1763 bytes to 904 bytes[OK]
Switch(L32#


Switch(L31
Switch(L32
Switch(L2_1
Switch(L2_2
Switch(L2_3
Switch(L31(config)#vlan 999
Switch(L31(config-vlan)#name unused
Switch(L31(config-vlan)#

Sprawdzenie na Multilayer Switchach - DZIALA


SwitchL31
SwitchL32
SwitchL2_1
SwitchL2_2
SwitchL2_3
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#
SwitchL32#show vlan brief
VLAN Name Status Ports
---- -------------------------------- --------- -------------------------------
1 default active Et0/0, Et2/0, Et2/1, Et2/2
Et2/3, Et3/0, Et3/1, Et3/2
Et3/3, Et4/0, Et4/1, Et4/2
Et4/3, Et5/0, Et5/1, Et5/2
Et5/3
10 VLAN0010 active
20 VLAN0020 active
30 VLAN0030 active
999 unused active
1002 fddi-default act/unsup
1003 token-ring-default act/unsup
1004 fddinet-default act/unsup
1005 trnet-default act/unsup
SwitchL32#
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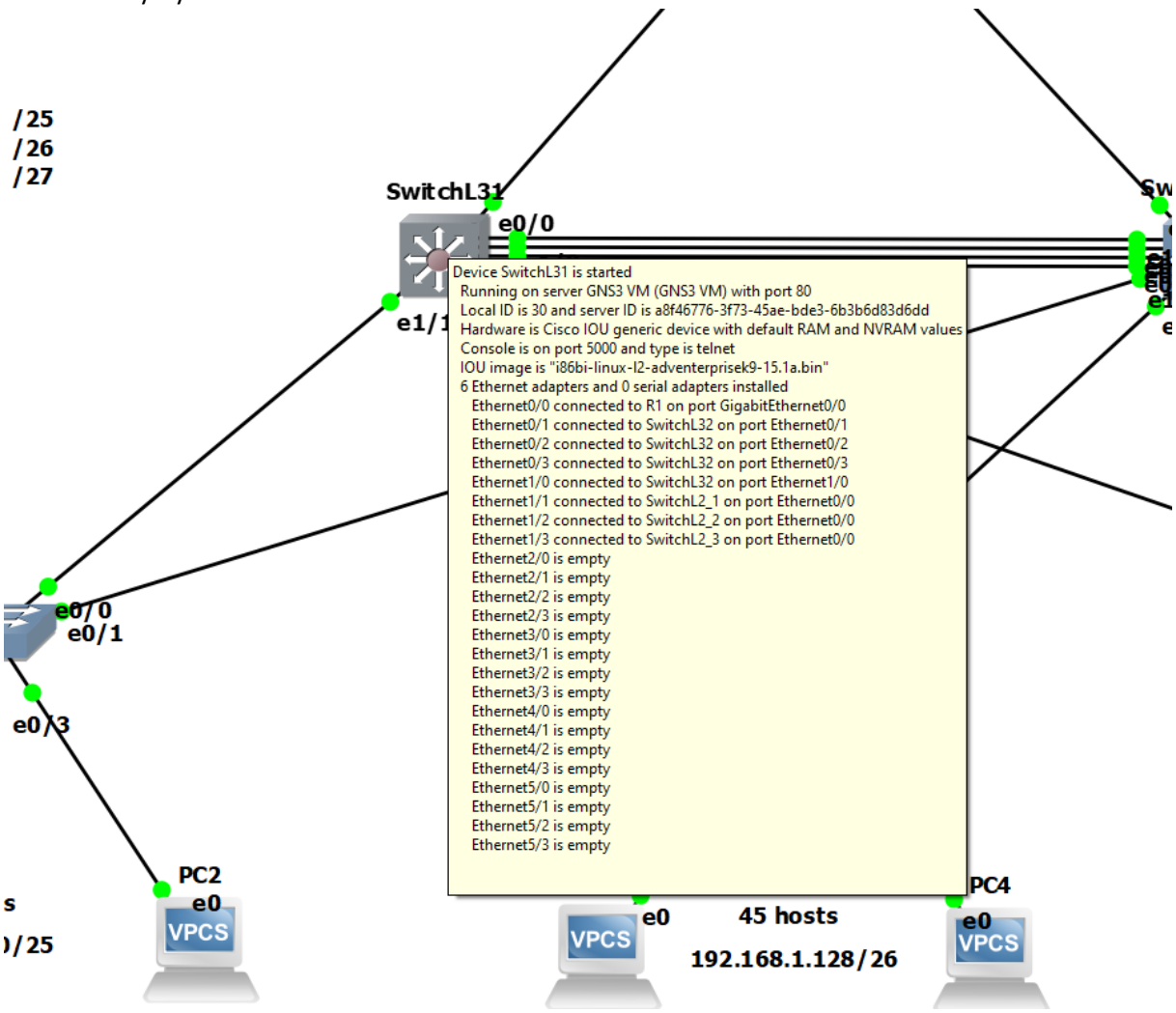
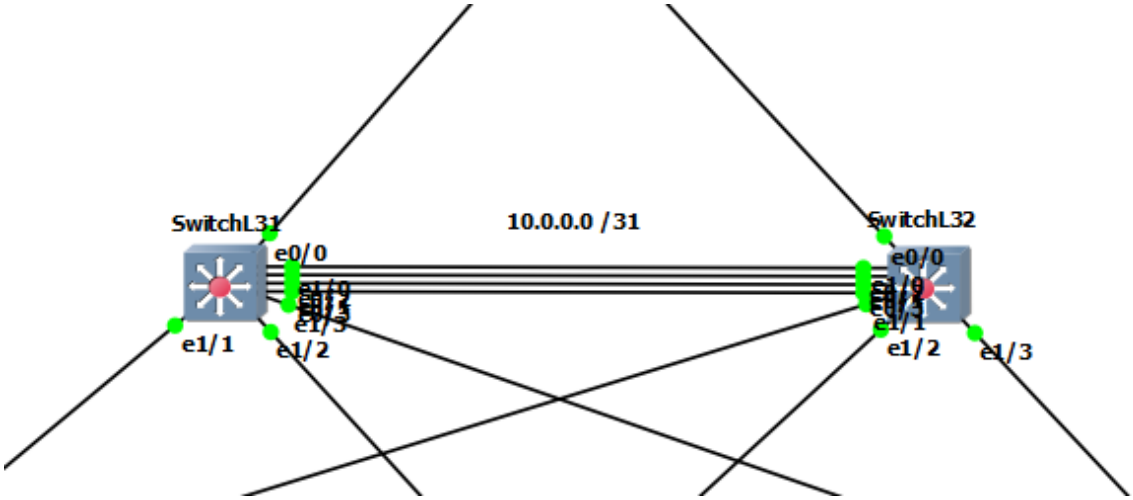
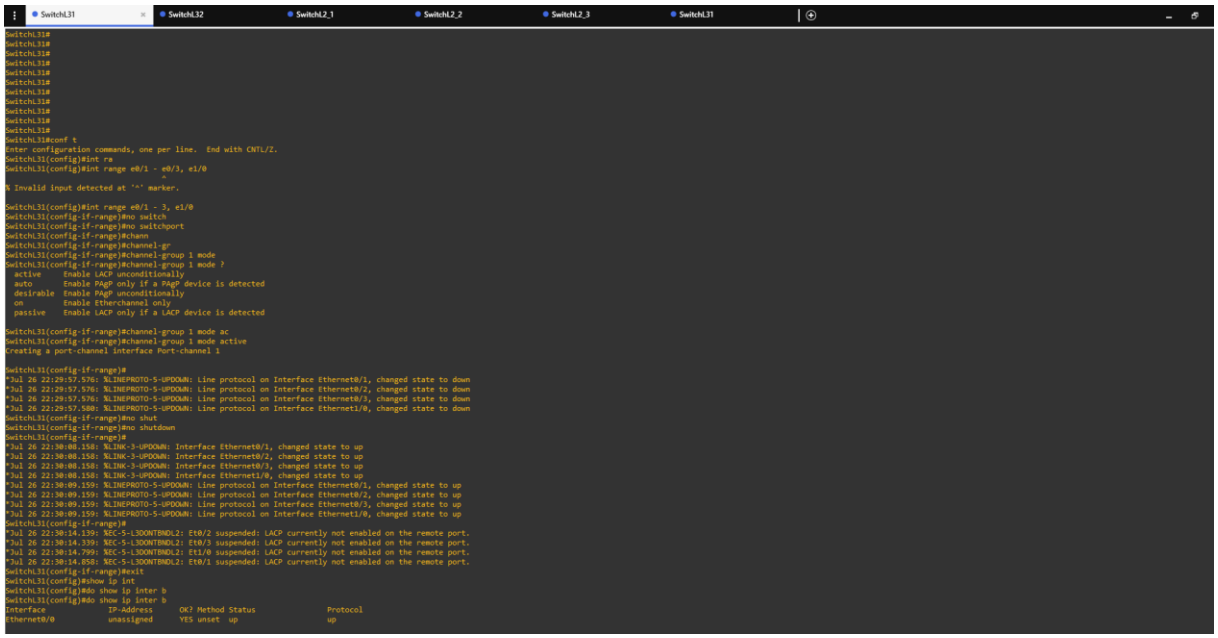
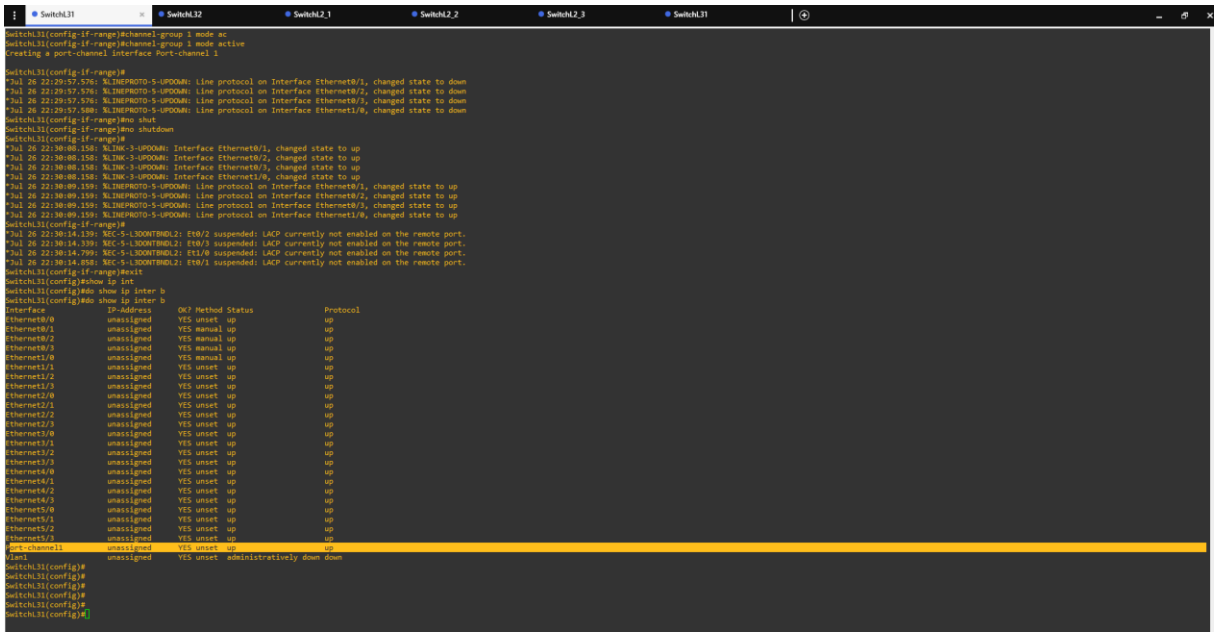
5. Teraz tworzymy Etherchannel

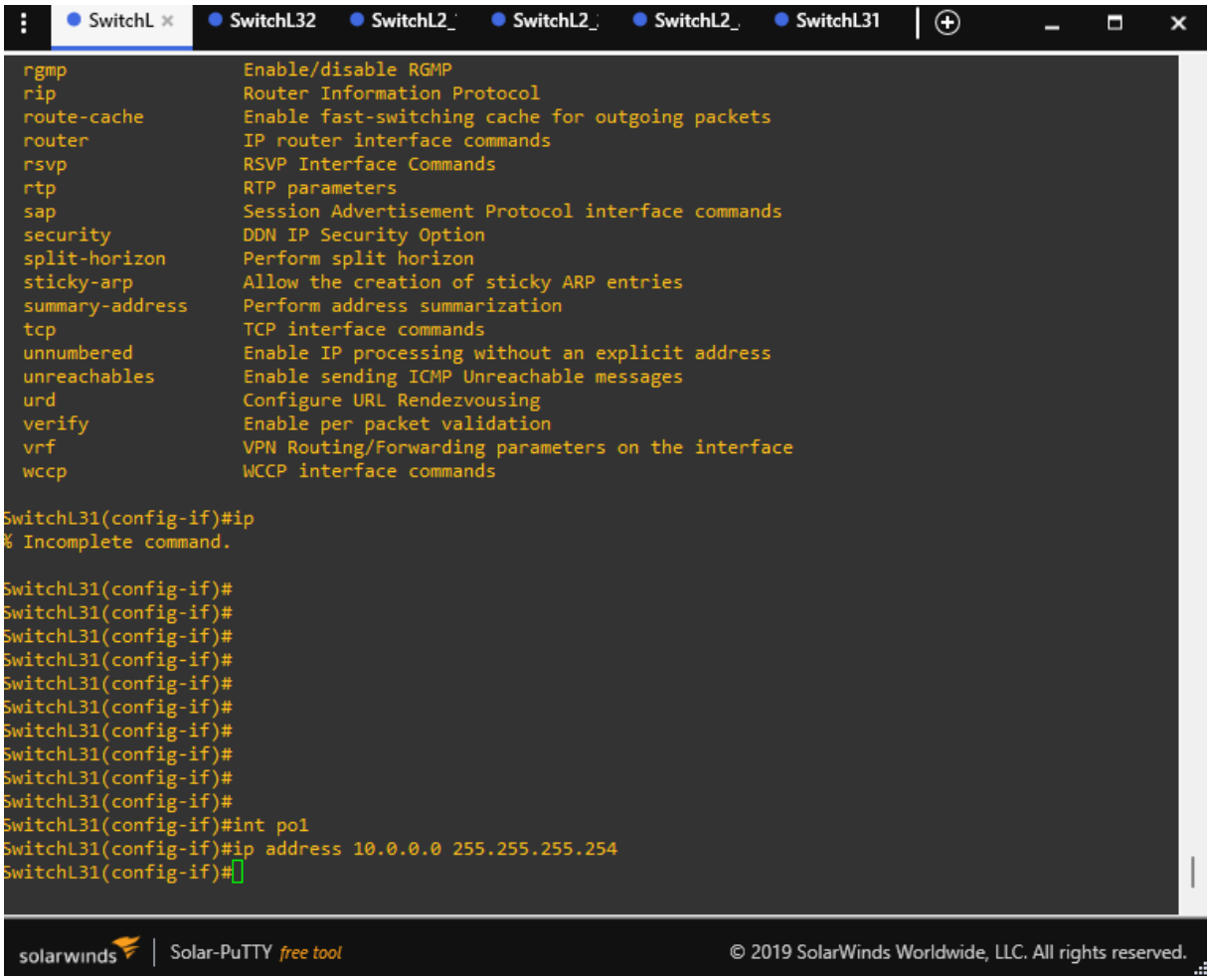



Użyje maski /31, ponieważ jest to połączenie **point to point**, a powiedzmy ze chcemy jak najbardziej „przyoszczędzić” adresy ip.


SwitchL31
SwitchL32
SwitchL2_1
SwitchL2_2
SwitchL2_3
SwitchL31
SwitchL31#
SwitchL31#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
SwitchL31(config)#int ra
SwitchL31(config)#int range e0/1 - e0/3, e1/0
% Invalid input detected at '^' marker.
SwitchL31(config)#int range e0/1 - 3, e1/0
SwitchL31(config-if-range)#no switch
SwitchL31(config-if-range)#no switchport
SwitchL31(config-if-range)#chann
SwitchL31(config-if-range)#channel-gr
SwitchL31(config-if-range)#channel-group 1 mode
SwitchL31(config-if-range)#channel-group 1 mode ?
active Enable LACP unconditionally
auto Enable PAgP only if a PAgP device is detected
desirable Enable PAgP unconditionally
on Enable Etherchannel only
passive Enable LACP only if a LACP device is detected
SwitchL31(config-if-range)#channel-group 1 mode ac
SwitchL31(config-if-range)#channel-group 1 mode active
Creating a port-channel interface Port-channel 1
SwitchL31(config-if-range)#
*Jul 26 22:29:57.576: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1, changed state to down
*Jul 26 22:29:57.576: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/2, changed state to down
*Jul 26 22:29:57.576: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/3, changed state to down
*Jul 26 22:29:57.580: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0, changed state to down
SwitchL31(config-if-range)#no shut
SwitchL31(config-if-range)#no shutdown
SwitchL31(config-if-range)#
*Jul 26 22:30:08.158: %LINK-3-UPDOWN: Interface Ethernet0/1, changed state to up
*Jul 26 22:30:08.158: %LINK-3-UPDOWN: Interface Ethernet0/2, changed state to up
*Jul 26 22:30:08.158: %LINK-3-UPDOWN: Interface Ethernet0/3, changed state to up
*Jul 26 22:30:08.158: %LINK-3-UPDOWN: Interface Ethernet1/0, changed state to up
*Jul 26 22:30:09.159: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1, changed state to up
*Jul 26 22:30:09.159: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/2, changed state to up
*Jul 26 22:30:09.159: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/3, changed state to up
*Jul 26 22:30:09.159: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0, changed state to up
SwitchL31(config-if-range)#
*Jul 26 22:30:14.139: %EC-5-L3DONTBNDL2: Et0/2 suspended: LACP currently not enabled on the remote port.
*Jul 26 22:30:14.339: %EC-5-L3DONTBNDL2: Et0/3 suspended: LACP currently not enabled on the remote port.
*Jul 26 22:30:14.799: %EC-5-L3DONTBNDL2: Et1/0 suspended: LACP currently not enabled on the remote port.
*Jul 26 22:30:14.858: %EC-5-L3DONTBNDL2: Et0/1 suspended: LACP currently not enabled on the remote port.
SwitchL31(config-if-range)#exit
SwitchL31(config)#show ip int
SwitchL31(config)#do show ip inter b
SwitchL31(config)#do show ip inter b
Interface IP-Address OK? Method Status Protocol
Ethernet0/0 unassigned YES unset up up


SwitchL31
SwitchL32
SwitchL2_1
SwitchL2_2
SwitchL2_3
SwitchL31
SwitchL31(config-if-range)#channel-group 1 mode ac
SwitchL31(config-if-range)#channel-group 1 mode active
Creating a port-channel interface Port-channel 1
SwitchL31(config-if-range)#
*Jul 26 22:29:57.576: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1, changed state to down
*Jul 26 22:29:57.576: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/2, changed state to down
*Jul 26 22:29:57.576: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/3, changed state to down
*Jul 26 22:29:57.580: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0, changed state to down
SwitchL31(config-if-range)#no shut
SwitchL31(config-if-range)#no shutdown
SwitchL31(config-if-range)#
*Jul 26 22:30:08.158: %LINK-3-UPDOWN: Interface Ethernet0/1, changed state to up
*Jul 26 22:30:08.158: %LINK-3-UPDOWN: Interface Ethernet0/2, changed state to up
*Jul 26 22:30:08.158: %LINK-3-UPDOWN: Interface Ethernet0/3, changed state to up
*Jul 26 22:30:08.158: %LINK-3-UPDOWN: Interface Ethernet1/0, changed state to up
*Jul 26 22:30:09.159: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1, changed state to up
*Jul 26 22:30:09.159: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/2, changed state to up
*Jul 26 22:30:09.159: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/3, changed state to up
*Jul 26 22:30:09.159: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0, changed state to up
SwitchL31(config-if-range)#
*Jul 26 22:30:14.139: %EC-5-L3DONTBNDL2: Et0/2 suspended: LACP currently not enabled on the remote port.
*Jul 26 22:30:14.339: %EC-5-L3DONTBNDL2: Et0/3 suspended: LACP currently not enabled on the remote port.
*Jul 26 22:30:14.799: %EC-5-L3DONTBNDL2: Et1/0 suspended: LACP currently not enabled on the remote port.
*Jul 26 22:30:14.858: %EC-5-L3DONTBNDL2: Et0/1 suspended: LACP currently not enabled on the remote port.
SwitchL31(config-if-range)#exit
SwitchL31(config)#show ip int
SwitchL31(config)#do show ip inter b
SwitchL31(config)#do show ip inter b
Interface IP-Address OK? Method Status Protocol
Ethernet0/0 unassigned YES unset up up
Ethernet0/1 unassigned YES manual up up
Ethernet0/2 unassigned YES manual up up
Ethernet0/3 unassigned YES manual up up
Ethernet1/0 unassigned YES manual up up
Ethernet1/1 unassigned YES unset up up
Ethernet1/2 unassigned YES unset up up
Ethernet1/3 unassigned YES unset up up
Ethernet2/0 unassigned YES unset up up
Ethernet2/1 unassigned YES unset up up
Ethernet2/2 unassigned YES unset up up
Ethernet2/3 unassigned YES unset up up
Ethernet3/0 unassigned YES unset up up
Ethernet3/1 unassigned YES unset up up
Ethernet3/2 unassigned YES unset up up
Ethernet3/3 unassigned YES unset up up
Ethernet4/0 unassigned YES unset up up
Ethernet4/1 unassigned YES unset up up
Ethernet4/2 unassigned YES unset up up
Ethernet4/3 unassigned YES unset up up
Ethernet5/0 unassigned YES unset up up
Ethernet5/1 unassigned YES unset up up
Ethernet5/2 unassigned YES unset up up
Ethernet5/3 unassigned YES unset up up
Port-channel1 unassigned YES unset up up
Vlan1 unassigned YES unset administratively down down
SwitchL31(config)#
SwitchL31(config)#
SwitchL31(config)#
SwitchL31(config)#
SwitchL31(config)#
SwitchL31(config)#



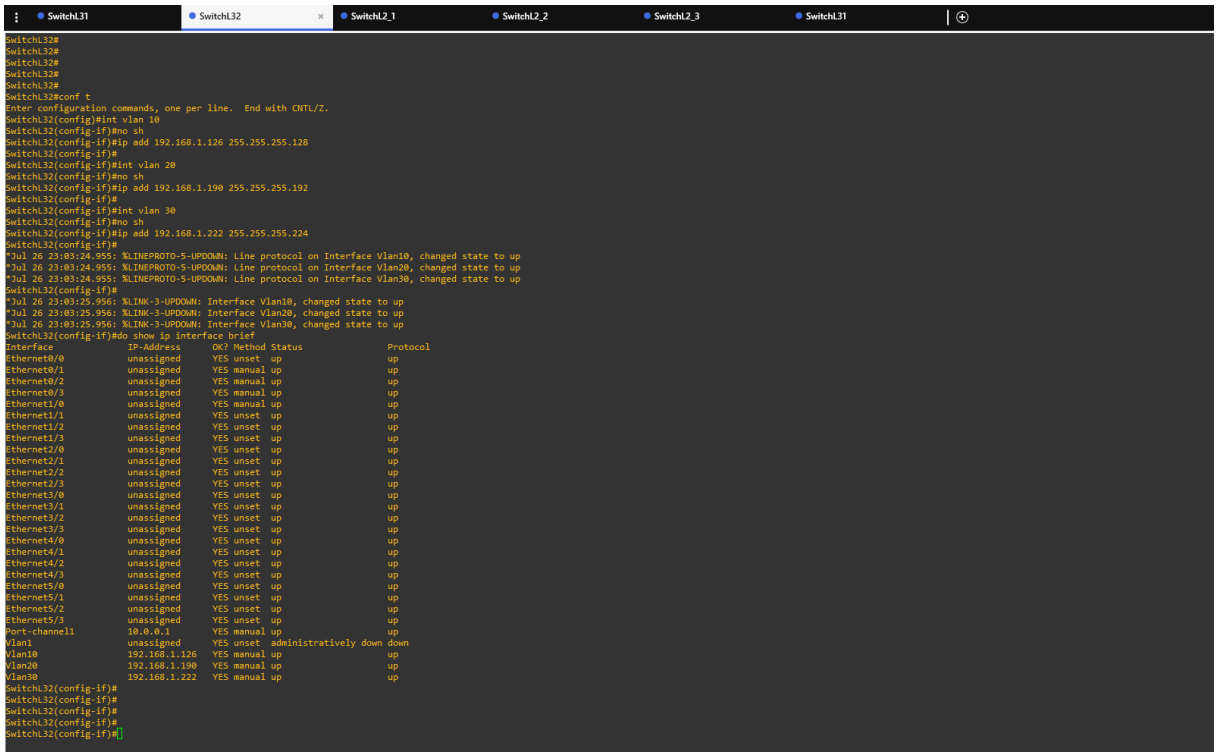

W drugim switch możemy dac mode passive.

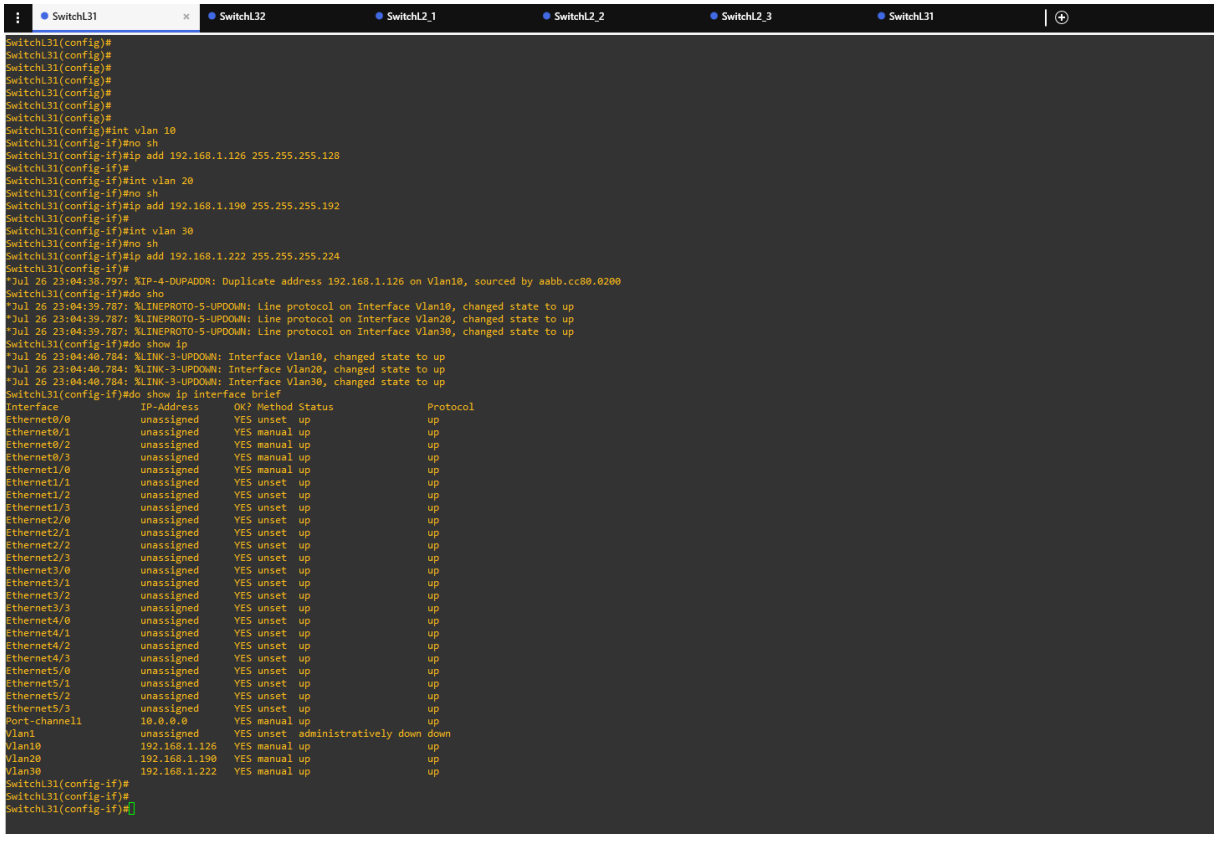
```
SwitchL32(config-if)#ip address 10.0.0.1 255.255.255.254
SwitchL32(config-if)#do show eth
% Ambiguous command:  "do show eth"
SwitchL32(config-if)#do show etherchannel summ
Flags:  D - down        P - bundled in port-channel
        I - stand-alone s - suspended
        H - Hot-standby (LACP only)
        R - Layer3      S - Layer2
        U - in use      f - failed to allocate aggregator

        M - not in use, minimum links not met
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port


Number of channel-groups in use: 1
Number of aggregators:           1

Group  Port-channel  Protocol    Ports
------+-------------+-----------+-----------------------------------------------
1      Po1(RU)         LACP      Et0/1(P)    Et0/2(P)    Et0/3(P)
                                 Et1/0(P)

SwitchL32(config-if)#
```

Layer 3 in use

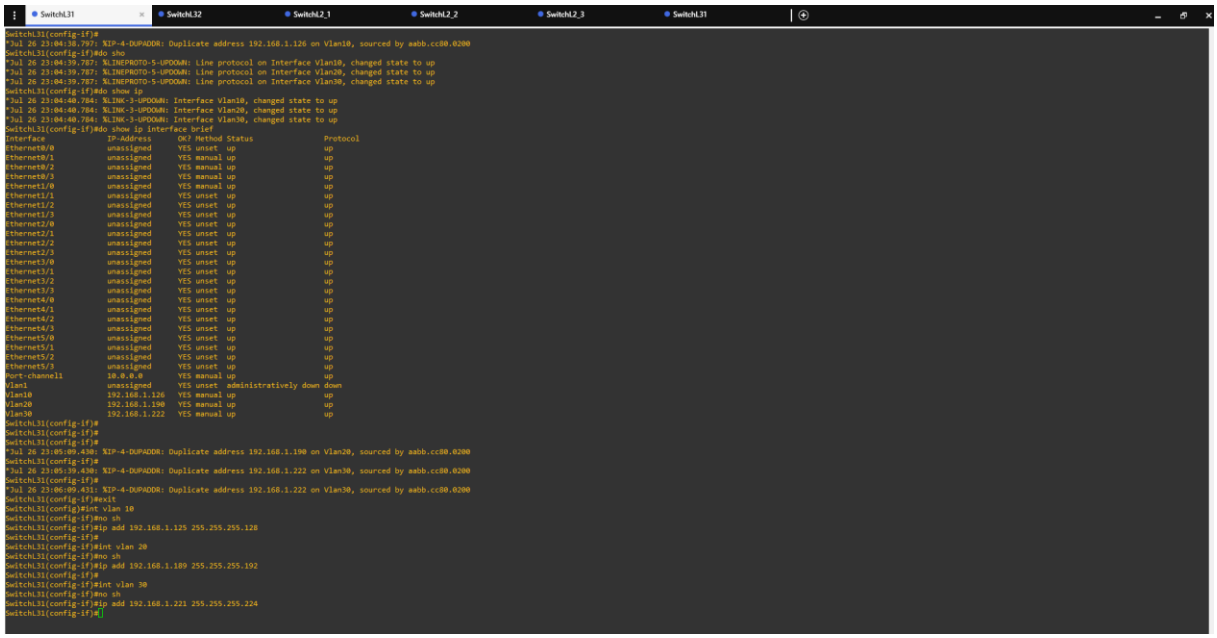
Oba interfejsy są UP/UP, jednak nie mogę zrobic ping z SWITCHL3_1 DO SWITCHL3_2. Przyczyną może być błąd obrazu switchow.

Konfiguracja SVI

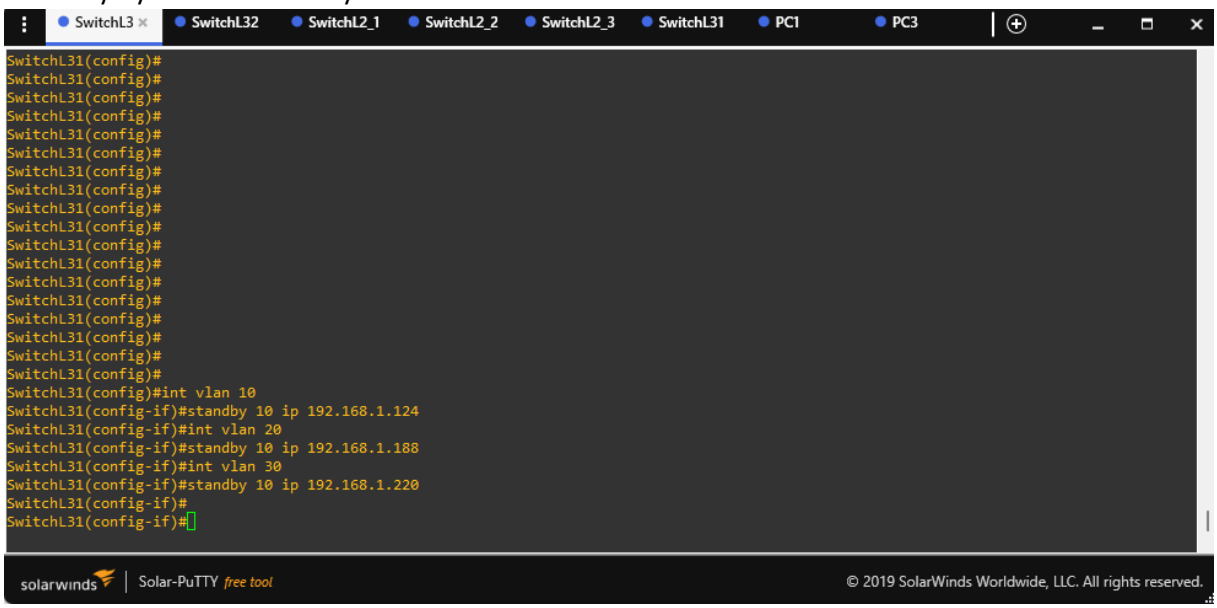


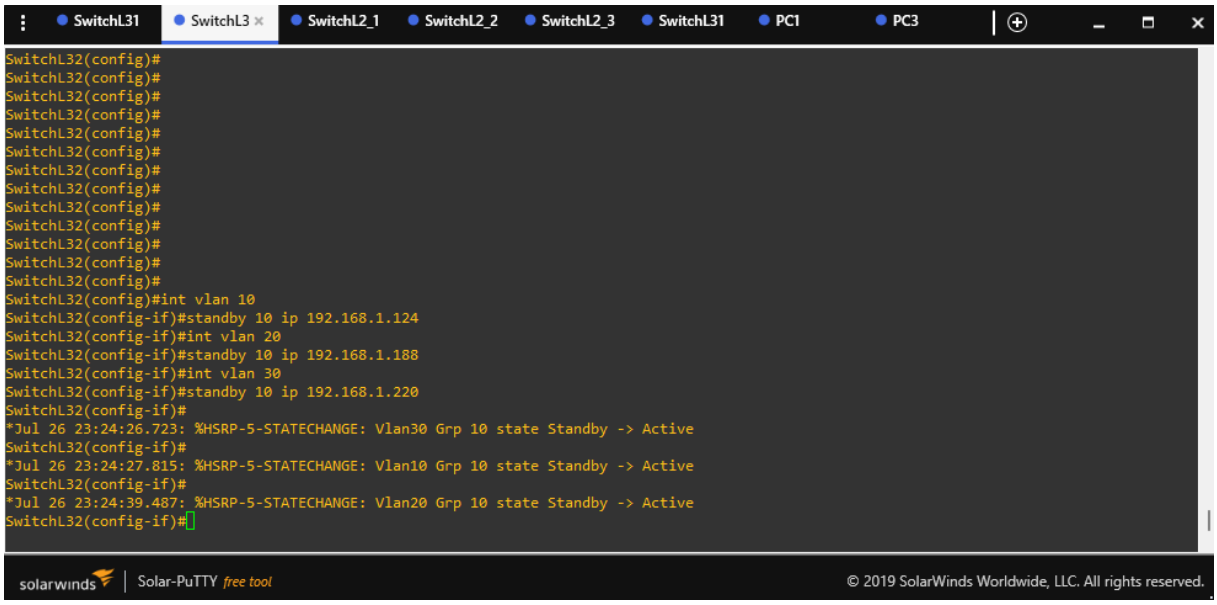




Jako że mamy duplikaty adresow ip – musimy zrobic to troche inaczej. Zmienilem Adresy na SwitchL31 na:

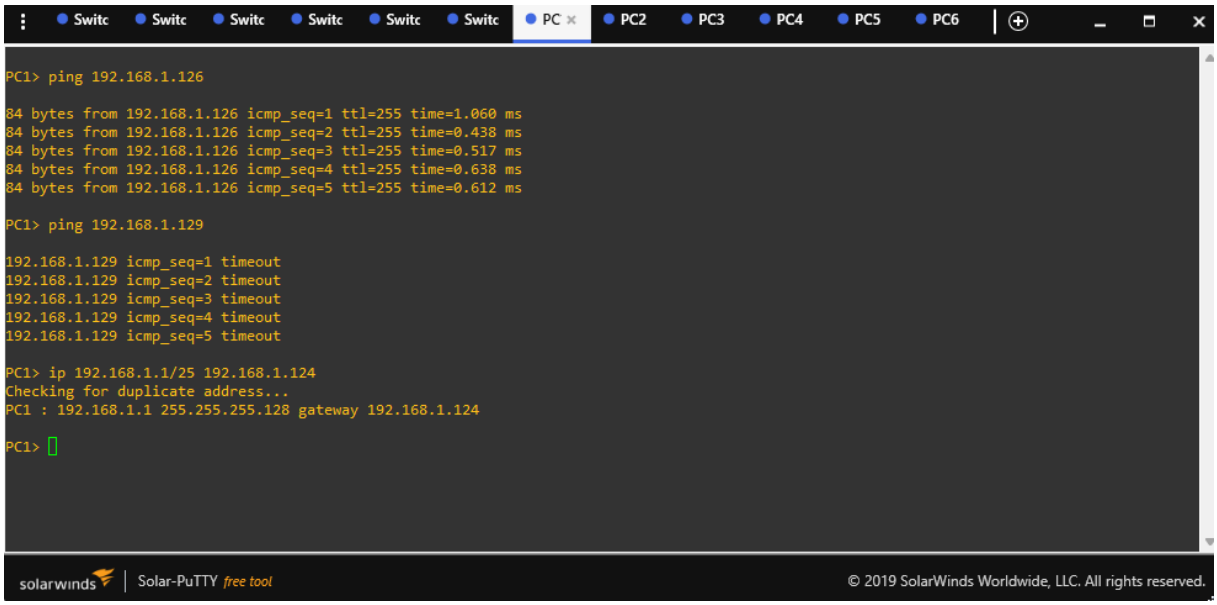



I stworzymy HSRP z wirtualnymi IP






Zmieniamy bramke domyslna





6. Sprawdzenie pingów:

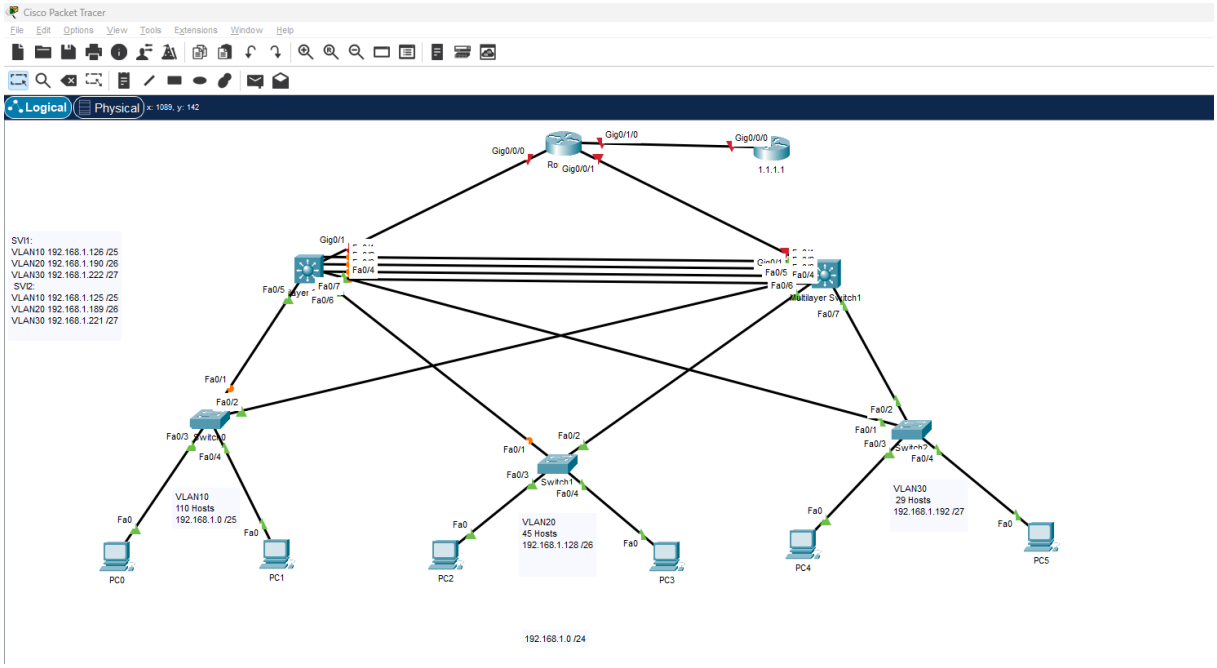

Unreachable

Problem może leżeć w tym, że oba routery nie komunikują się ze sobą i OBA są w stanie Active.

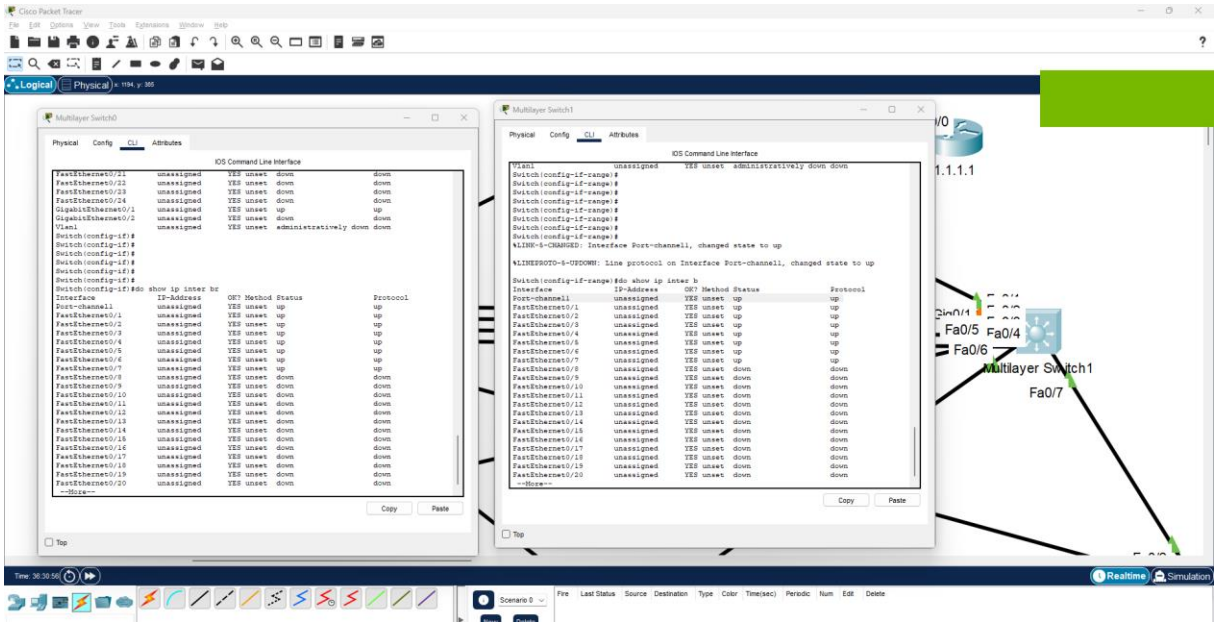


Tutaj wyszukałem, ze znowu to może być wina obrazów i stwierdziłem, ze zrobie to w packet tracerze.

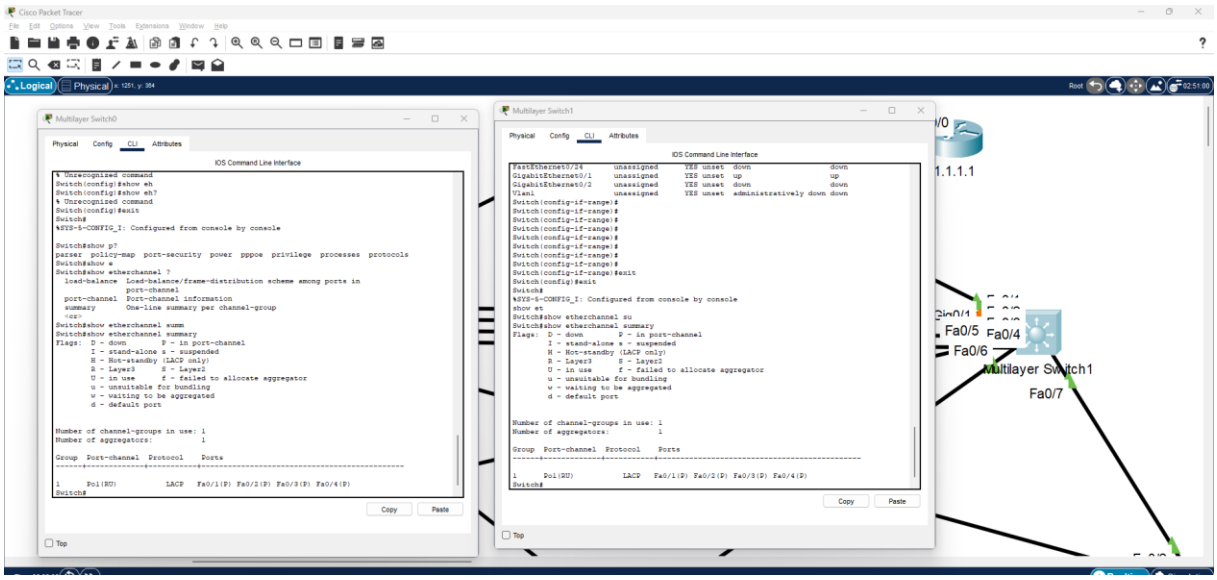
Konfiguracje zachowałem taką samą, oprócz innych portów przełączników oraz routerów, dlatego będę kontynuował od tego co zacząłem w gns3




Tak wgl, niektóre porty świecą się na pomarańczowo. Jest to spowodowane tym, że automatycznie stworzyło się STP (spanning tree protocol). A, że pomiędzy dwoma layer 3 switch nie ma jeszcze skonfigurowanego Etherchannel, to liczy to jako 4 porty, a nie jeden i je zablokowalo, aby nie tworzyły się broadcast stormy.

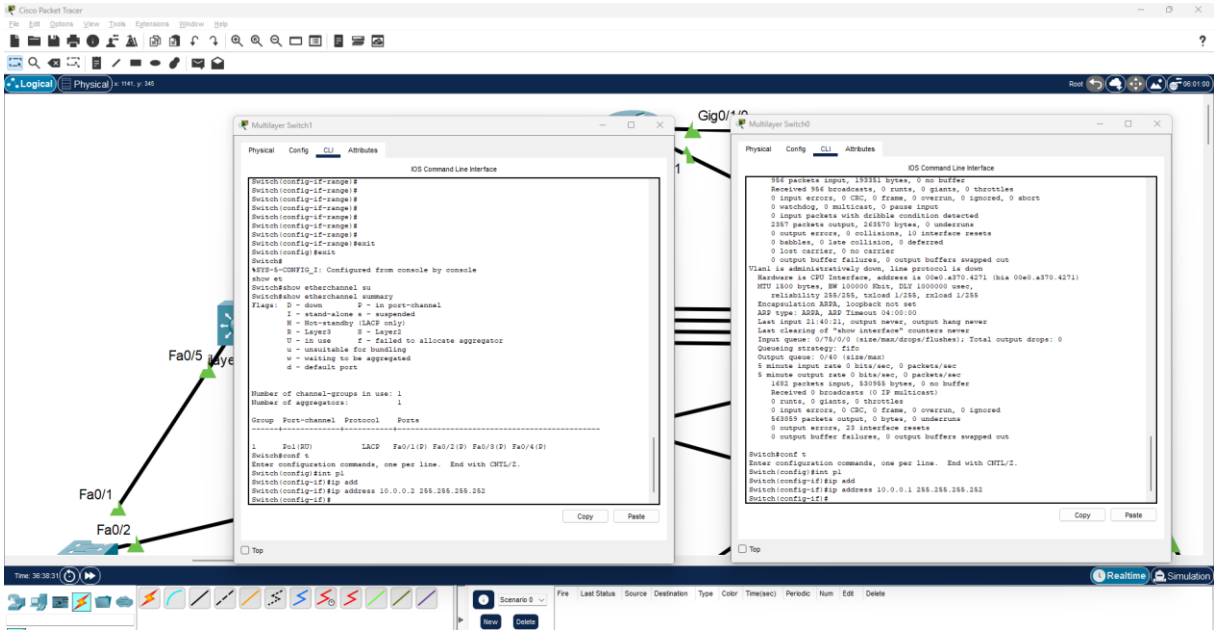


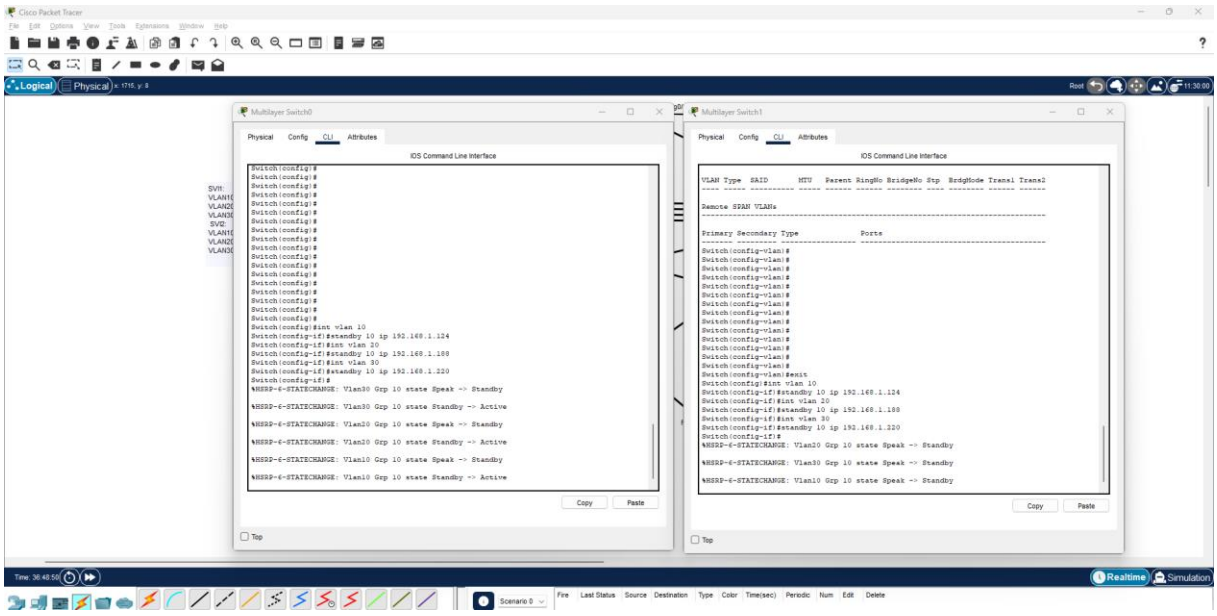

Portchannel1 UP/UP



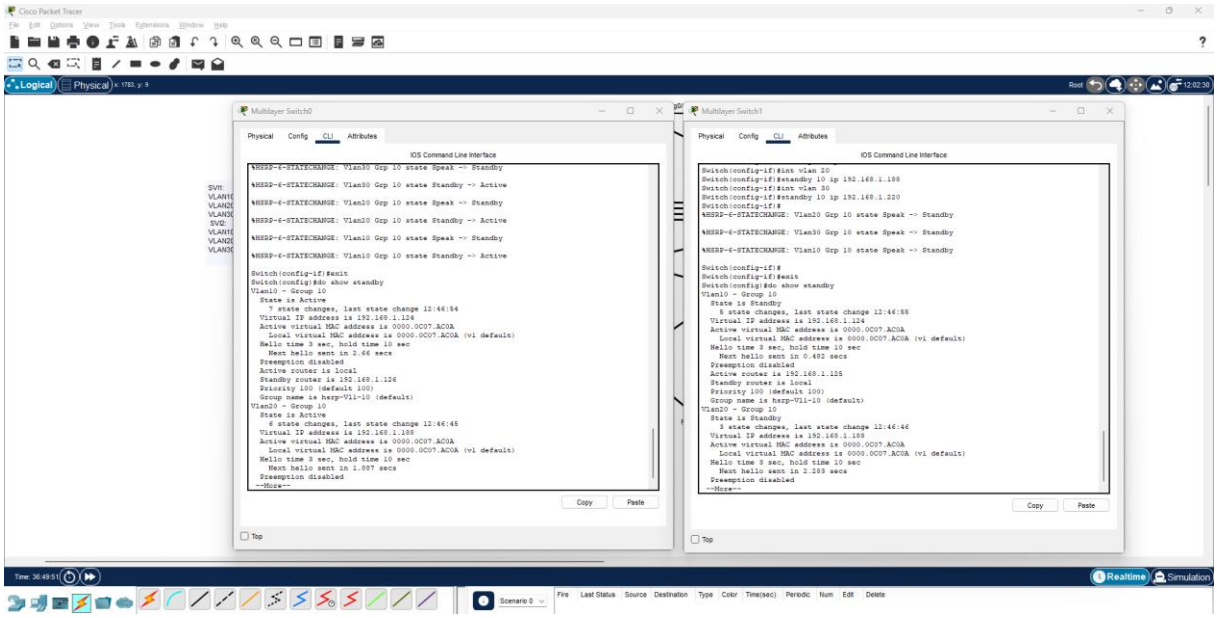

Layer 3 in use

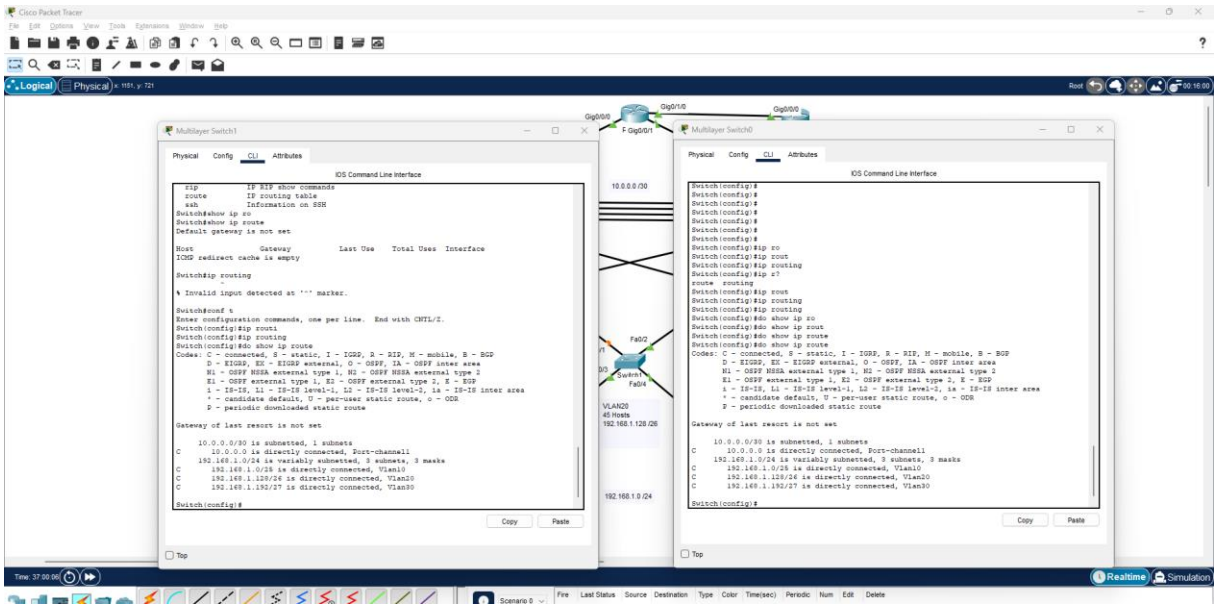
Packet tracer nie lubi maski /31, wiec zmieniam na /30



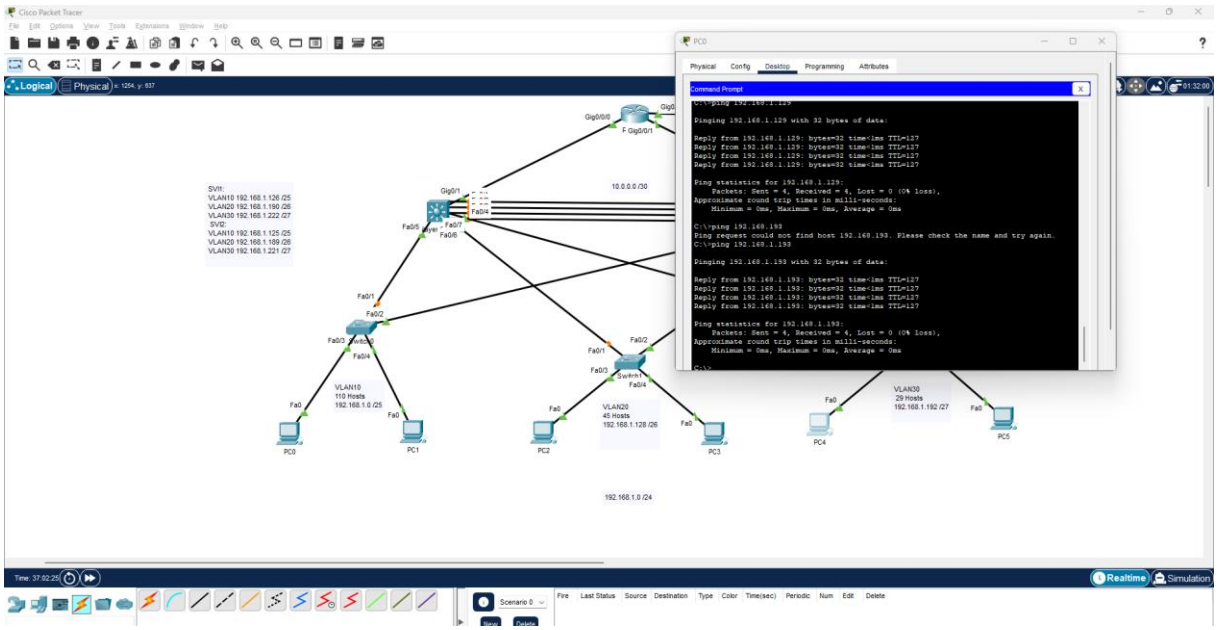



Teraz się dobrze zsynchornizowały



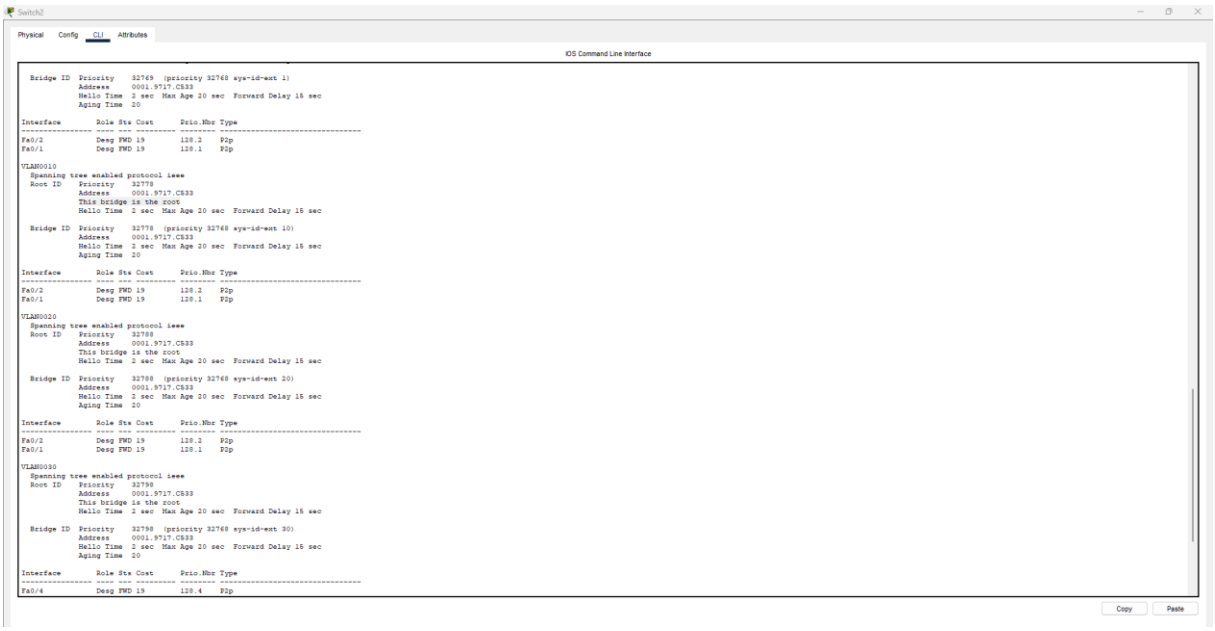


7. Włączamy ip routing na obydwu przełącznikach
8. Sprawdzenie ping

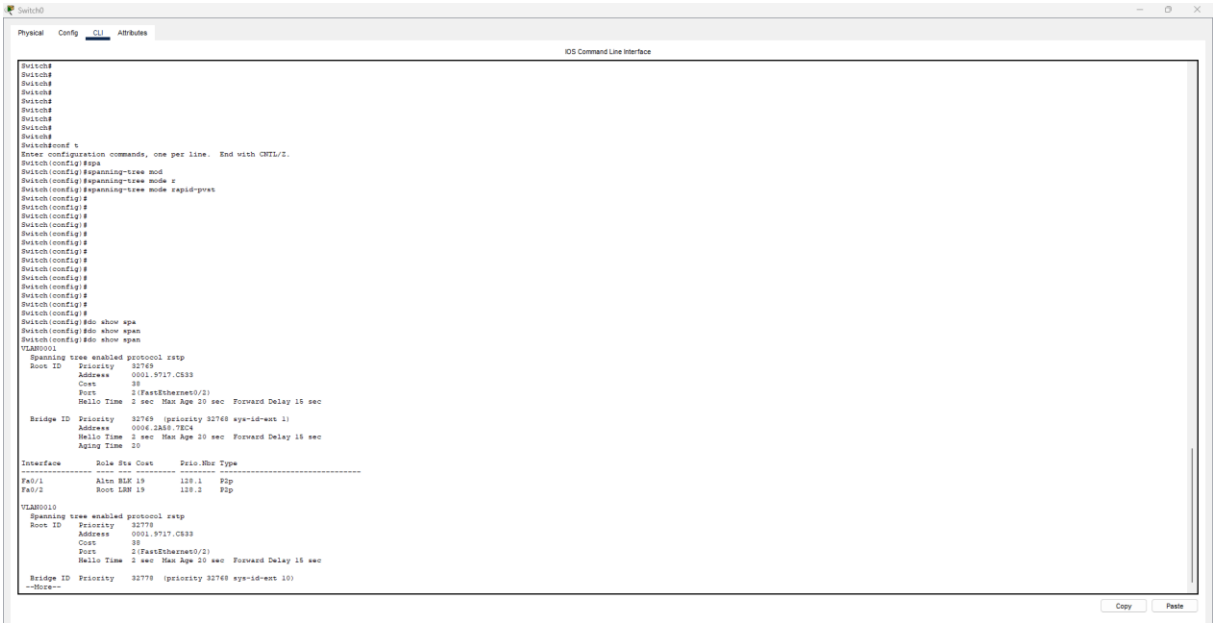


Komputer w VLAN10 może pingowac komputery w VLAN20 i VLAN30. Tak samo reszta

9. Teraz zajmijmy się load balancingiem STP, tak aby w pełni wykorzystać przepustowość kabli. Dla każdego z VLANów przydzielimy inny Primary oraz Secondary Root Bridge



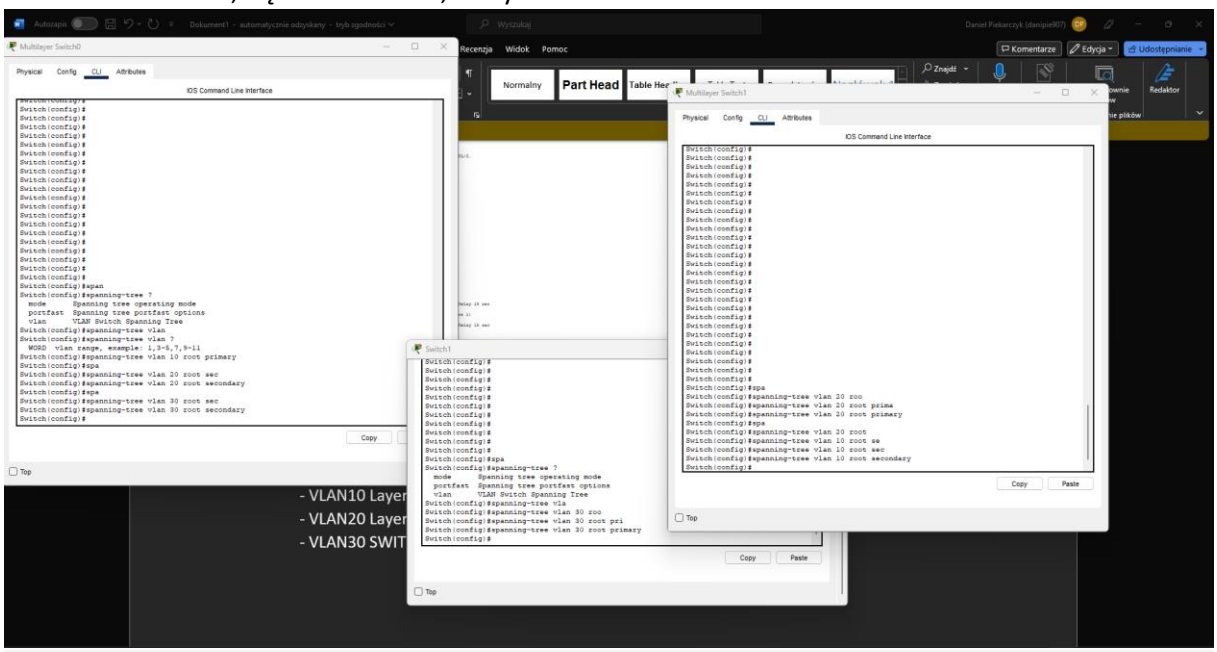

W aktualnej konfiguracji Switch2 jest Root bridge dla każdego z vlanów oraz używa wersji IEEE, czyli MSTP. Zmieniamy ją na RSTP dla wszystkich switchow




Zrobimy tak, że dla

- VLAN10 Layer3Switch0 będzie PRIMARY, a Layer3Switch1 SECONDARY
- VLAN20 Layer3Switch1 będzie PRIMARY, a Layer3Switch0 SECONDARY

- VLAN30 SWITCH1, będzie PRIMARY, a Layer3Switch0 SECONDARY



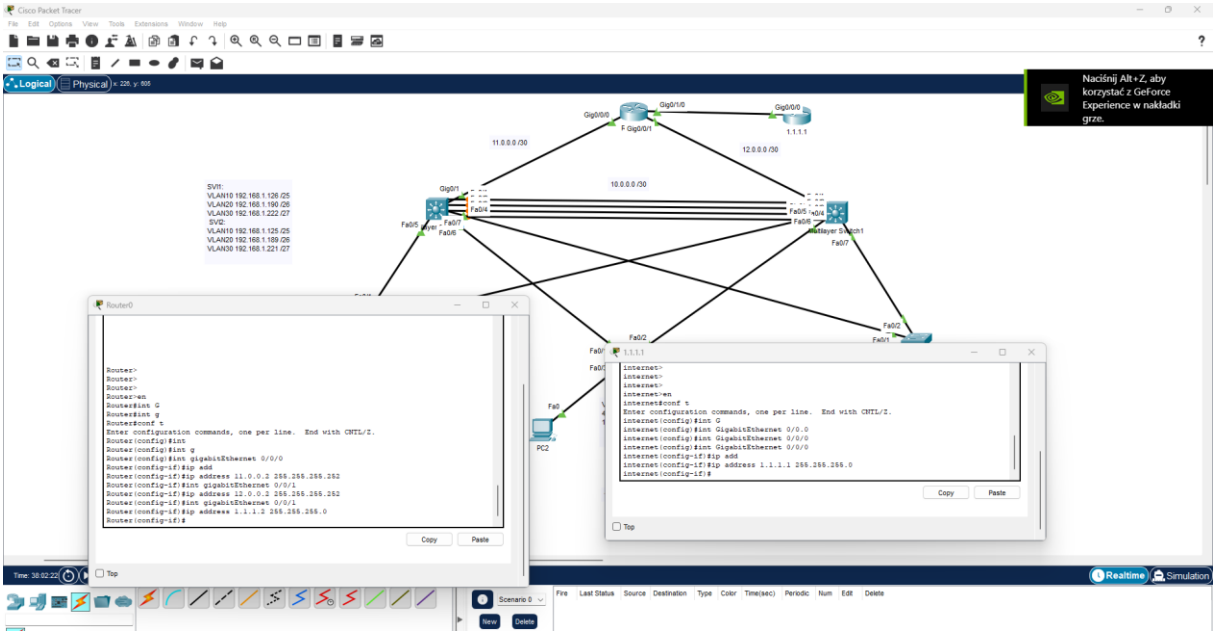

Switch0

Physical Config CLI Attributes

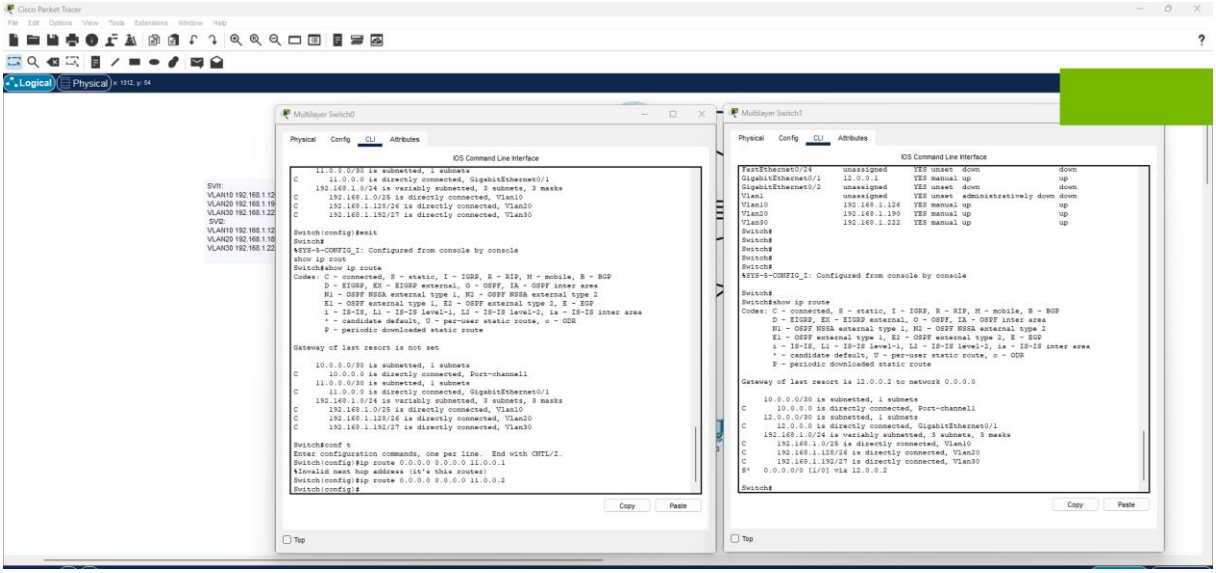
IOS Command Line Interface

```
Fa0/2            Root FWD 19        128.2    P2p

VLAN0010
  Spanning tree enabled protocol rstp
  Root ID    Priority    24586
             Address     00E0.A370.4271
             Cost        19
             Port        1(FastEthernet0/1)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32778  (priority 32768 sys-id-ext 10)
             Address     0006.2A58.7EC4
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- -------- --------------------------------
Fa0/1            Root FWD 19        128.1    P2p
Fa0/2            Desg FWD 19        128.2    P2p
Fa0/3            Desg FWD 19        128.3    P2p
Fa0/4            Desg FWD 19        128.4    P2p

VLAN0020
  Spanning tree enabled protocol rstp
  Root ID    Priority    24596
             Address     0060.4720.C38C
             Cost        57
             Port        1(FastEthernet0/1)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32788  (priority 32768 sys-id-ext 20)
             Address     0006.2A58.7EC4
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- -------- --------------------------------
Fa0/1            Root FWD 19        128.1    P2p
Fa0/2            Desg FWD 19        128.2    P2p

VLAN0030
  Spanning tree enabled protocol rstp
  Root ID    Priority    24606
             Address     0006.2AE6.B58A
             Cost        38
             Port        2(FastEthernet0/2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32798  (priority 32768 sys-id-ext 30)
             Address     0006.2A58.7EC4
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- -------- --------------------------------
Fa0/1            Desg FWD 19        128.1    P2p
Fa0/2            Root FWD 19        128.2    P2p

Switch(config)#
Switch(config)#
```

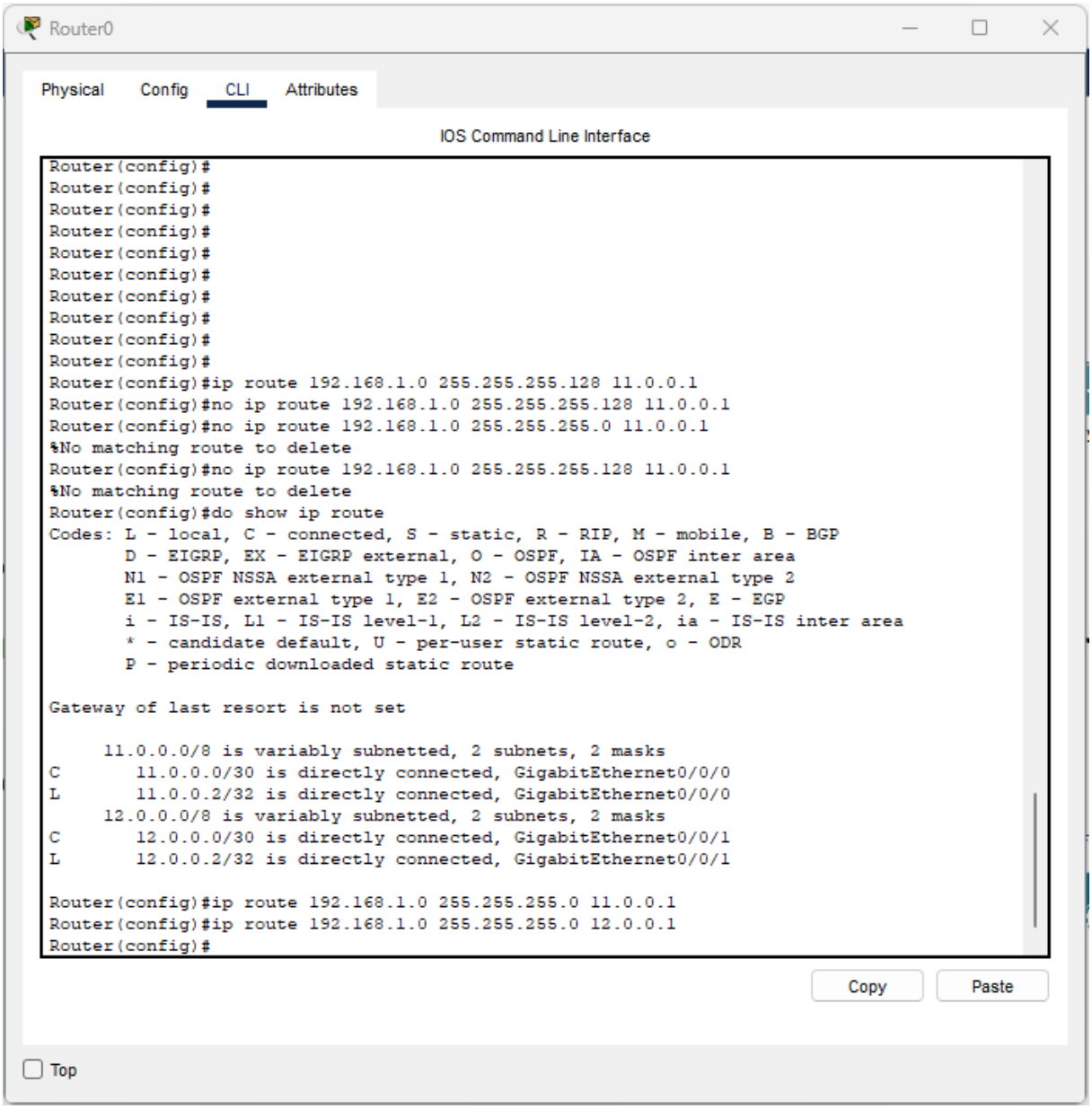
10. Konfiguracja Routera0 i 1.1.1.1



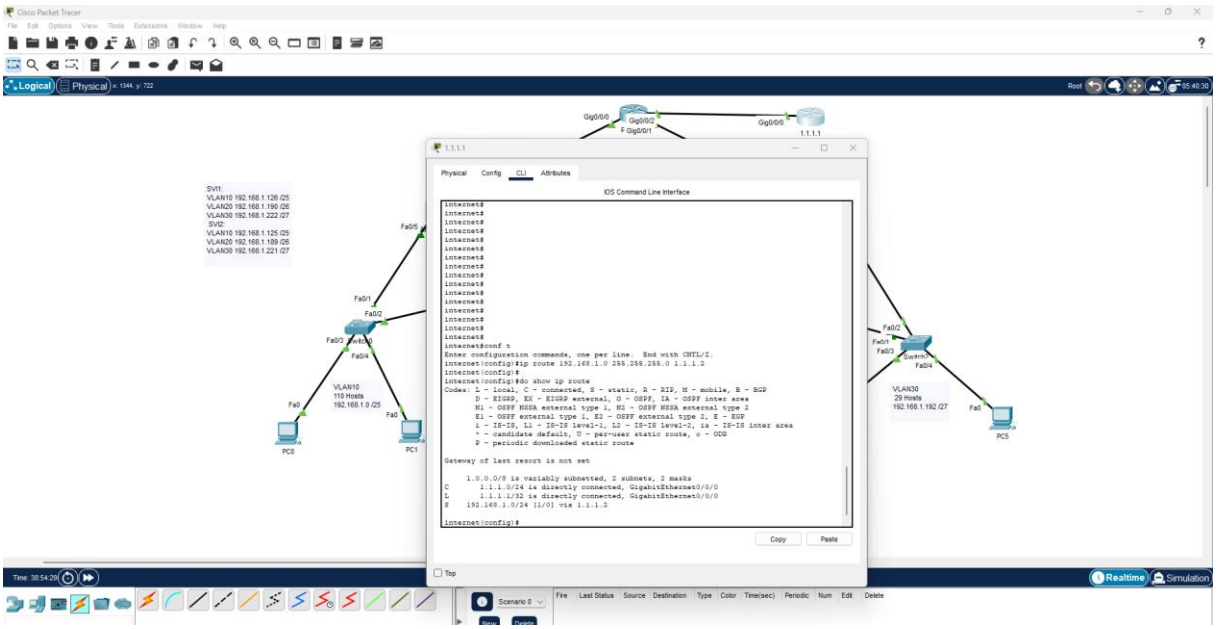
11. Teraz skonfigurujemy statycznie routing table, tak aby był dostęp do 1.1.1.1
    L3 Switch



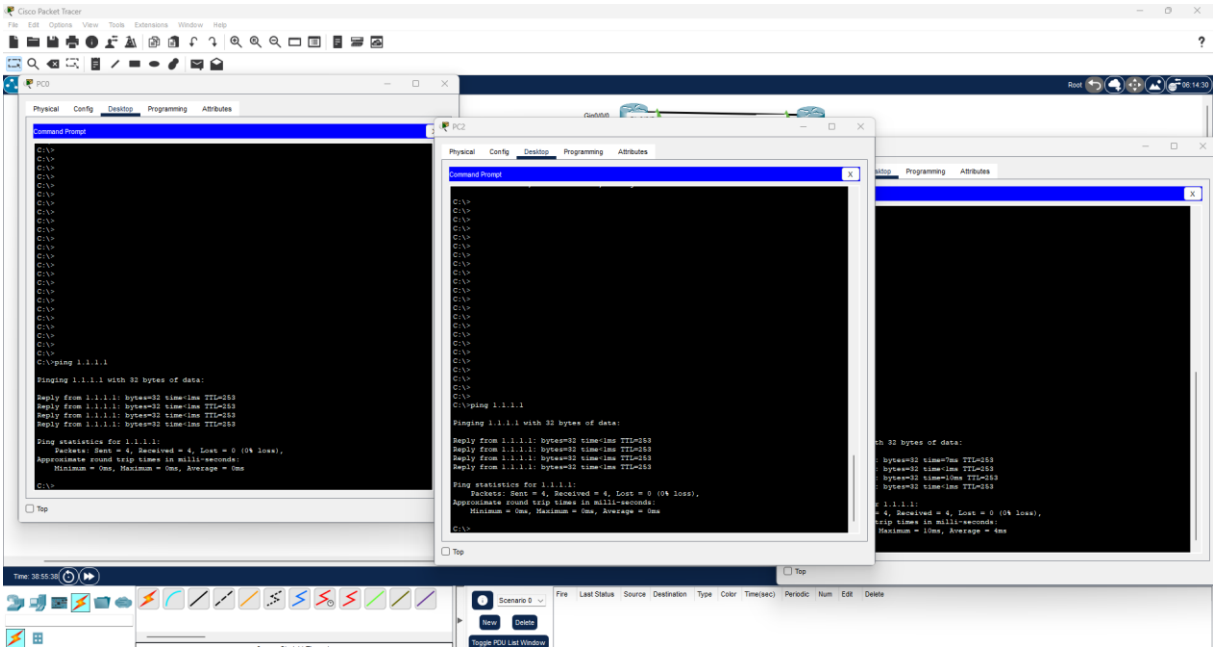
    Router


Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#ip route 192.168.1.0 255.255.255.128 11.0.0.1
Router(config)#no ip route 192.168.1.0 255.255.255.128 11.0.0.1
Router(config)#no ip route 192.168.1.0 255.255.255.0 11.0.0.1
%No matching route to delete
Router(config)#no ip route 192.168.1.0 255.255.255.128 11.0.0.1
%No matching route to delete
Router(config)#do show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, 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
11.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 11.0.0.0/30 is directly connected, GigabitEthernet0/0/0
L 11.0.0.2/32 is directly connected, GigabitEthernet0/0/0
12.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 12.0.0.0/30 is directly connected, GigabitEthernet0/0/1
L 12.0.0.2/32 is directly connected, GigabitEthernet0/0/1
Router(config)#ip route 192.168.1.0 255.255.255.0 11.0.0.1
Router(config)#ip route 192.168.1.0 255.255.255.0 12.0.0.1
Router(config)#
Copy
Paste
Top

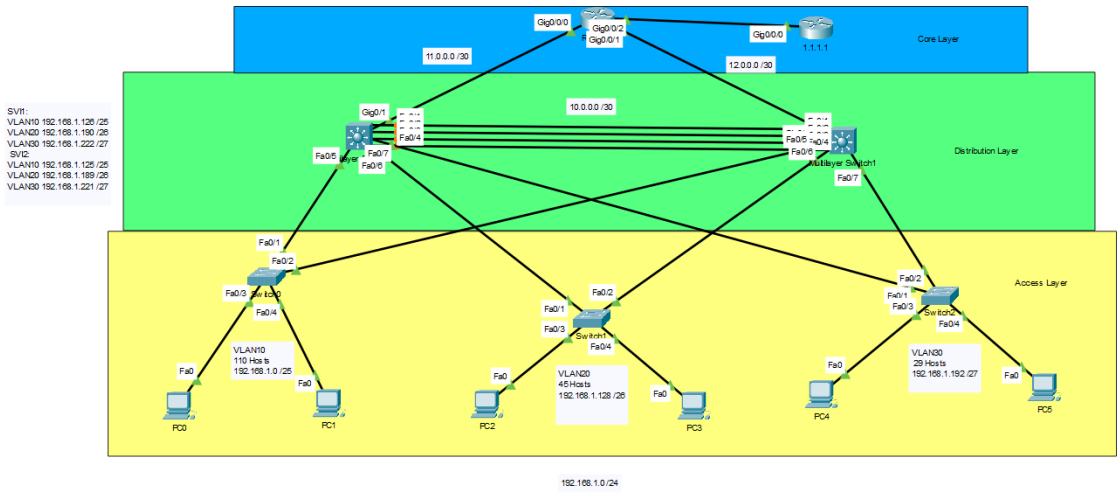
1.1.1.1



I sprawdzamy czy możemy zpingowac 1.1.1.1



**Działa wszystko poprawnie**




Daniel Piekarczyk