ΔΙΚΤΥΑ ΥΠΟΛΟΓΙΣΤΩΝ

-*Κατσαρός Ανδρέας (1084522)*

ΑΚΑΔΗΜΑΙΚΟ ΕΤΟΣ: 2022-2023
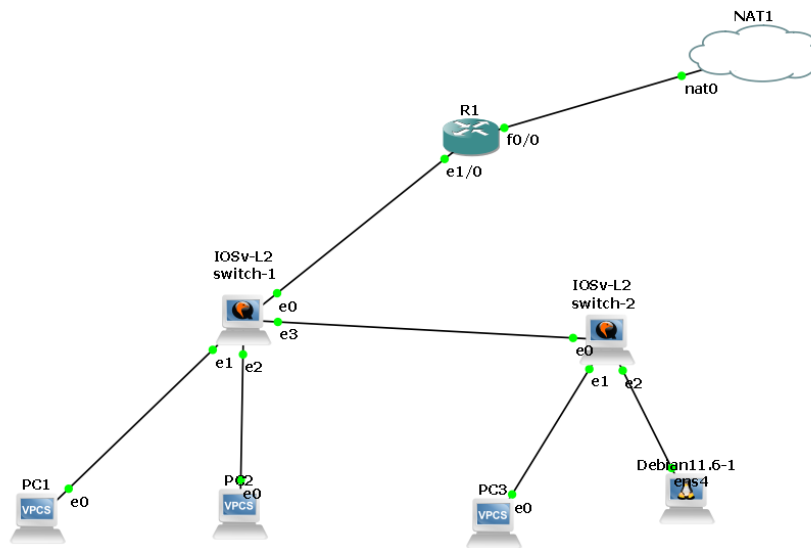
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6η Εργασία - Εισαγωγή στη Χρήση GNS3

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Κος Βλάχος

ΕΡΩΤΗΜΑΤΑ:

Τοπολογία:

Code:

```
vIOS-L2-01>enable
vIOS-L2-01#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
vIOS-L2-01(config)#vlan 5
vIOS-L2-01(config-vlan)#name up1084522A
vIOS-L2-01(config-vlan)#exit
vIOS-L2-01(config)#vlan 10
vIOS-L2-01(config-vlan)#name up1084522B
vIOS-L2-01(config-vlan)#exit
vIOS-L2-01(config)#end
vIOS-L2-01#wr
*May 17 15:19:08.221: %SYS-5-CONFIG_I: Configured from console by console
vIOS-L2-01#wr
Building configuration...
Compressed configuration from 4963 bytes to 1912 bytes[OK]
vIOS-L2-01#
*May 17 15:19:12.332: %GRUB-5-CONFIG_WRITING: GRUB configuration is being updated on disk. Please wait...
*May 17 15:19:12.966: %GRUB-5-CONFIG_WRITTEN: GRUB configuration was written to disk successfully.
vIOS-L2-01#enable
vIOS-L2-01#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
vIOS-L2-01(config)#interface gigabitethernet 0/1
vIOS-L2-01(config-if)#switchport mode access
vIOS-L2-01(config-if)#switchport access vlan 5
vIOS-L2-01(config-if)#exit
vIOS-L2-01(config)#interface gigabitethernet 0/2
vIOS-L2-01(config-if)#switchport mode access
vIOS-L2-01(config-if)#switchport access vlan 10
vIOS-L2-01(config-if)#exit
vIOS-L2-01(config)#interface gigabitethernet 0/3
vIOS-L2-01(config-if)#switchport trunk encapsulation dot1q
vIOS-L2-01(config-if)#switchport mode trunk
vIOS-L2-01(config-if)#exi
vIOS-L2-01(config)#interface gigabitethernet 0/0
vIOS-L2-01(config-if)#switchport trunk encapsulation dot1q
vIOS-L2-01(config-if)#switchport mode trunk
vIOS-L2-01(config-if)#exit
vIOS-L2-01(config)#exit
vIOS-L2-01#wt
*May 17 15:23:04.149: %SYS-5-CONFIG_I: Configured from console by console
vIOS-L2-01#wr
Building configuration...
Compressed configuration from 5138 bytes to 2000 bytes[OK]
vIOS-L2-01#
```

```
vIOS-L2-01>
vIOS-L2-01>enable
vIOS-L2-01#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
vIOS-L2-01(config)#name up1084522A
                   ^
% Invalid input detected at '^' marker.

vIOS-L2-01(config)#vlan 5
vIOS-L2-01(config-vlan)#name up1084522A
vIOS-L2-01(config-vlan)#exit
vIOS-L2-01(config)#vlan 10
vIOS-L2-01(config-vlan)#name up1084522B
vIOS-L2-01(config-vlan)#exit
vIOS-L2-01(config)#end
vIOS-L2-01#wr
Building configuration...

*May 17 16:08:05.700: %SYS-5-CONFIG_I: Configured from console by consoleCompressed configuration from 4963
vIOS-L2-01#
*May 17 16:08:07.658: %GRUB-5-CONFIG_WRITING: GRUB configuration is being updated on disk. Please wait...
*May 17 16:08:08.280: %GRUB-5-CONFIG_WRITTEN: GRUB configuration was written to disk successfully.
vIOS-L2-01#
vIOS-L2-01#enable
vIOS-L2-01#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
vIOS-L2-01(config)#interface gigabitethernet 0/1
vIOS-L2-01(config-if)#switchport mode access
vIOS-L2-01(config-if)#switchport access vlan 5
vIOS-L2-01(config-if)#exit
vIOS-L2-01(config)#interface gigabitethernet 0/2
vIOS-L2-01(config-if)#switchport mode access
vIOS-L2-01(config-if)#switchport access vlan 10
vIOS-L2-01(config-if)#exit
vIOS-L2-01(config)#interface gigabitethernet 0/0
vIOS-L2-01(config-if)#switchport trunk encapsulation dot1q
vIOS-L2-01(config-if)#switchport mode trunk
vIOS-L2-01(config-if)#exit
vIOS-L2-01(config)#exit
vIOS-L2-01#wr
*May 17 16:17:17.399: %SYS-5-CONFIG_I: Configured from console by console
vIOS-L2-01#wr
Building configuration...
Compressed configuration from 5077 bytes to 1970 bytes[OK]
vIOS-L2-01#
*May 17 16:17:20.752: %GRUB-5-CONFIG_WRITING: GRUB configuration is being updated on disk. Please wait...
*May 17 16:17:21.367: %GRUB-5-CONFIG_WRITTEN: GRUB configuration was written to disk successfully.
```

```
R1#enable
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#int FastEthernet 0/0
R1(config-if)#ip address dhcp
R1(config-if)#no shutdown
R1(config-if)#
*May 17 19:13:52.799: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*May 17 19:13:53.799: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1(config-if)#end
R1#conf
*May 17 19:13:57.883: %SYS-5-CONFIG_I: Configured from console by console
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#
*May 17 19:14:06.747: %DHCP-6-ADDRESS_ASSIGN: Interface FastEthernet0/0 assigned DHCP address 192.168.122.117, mask 255.255.255.0, hostname R1

R1(config)#int FastEthernet 0/0
R1(config-if)#ip nat outside
R1(config-if)#
*May 17 19:14:48.055: %LINEPROTO-5-UPDOWN: Line protocol on Interface NVI0, changed state to up
R1(config-if)#exit
R1(config)#exit
R1#
*May 17 19:14:59.203: %SYS-5-CONFIG_I: Configured from console by console
R1#wr
```

```
R1#enable
R1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#interface ethernet  1/0.5
R1(config-subif)#encapsulation dot1q 5
R1(config-subif)#ip add 108.45.22.1 255.255.255.0
```

```
R1#
R1#ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 128/152/208 ms
R1#show ip dhcp binding
Bindings from all pools not associated with VRF:
IP address          Client-ID/              Lease expiration        Type
                    Hardware address/
                    User name
R1#
R1#show ip dhcp binding
Bindings from all pools not associated with VRF:
IP address          Client-ID/              Lease expiration        Type
                    Hardware address/
                    User name
R1#show ip dhcp pool
```

```
R1#
R1#show ip dhcp binding
Bindings from all pools not associated with VRF:
IP address          Client-ID/              Lease expiration        Type
                    Hardware address/
                    User name
R1#show ip dhcp pool

Pool 1084522-1DHCP :
 Utilization mark (high/low)    : 100 / 0
 Subnet size (first/next)       : 0 / 0
 Total addresses                : 254
 Leased addresses               : 0
 Pending event                  : none
 1 subnet is currently in the pool :
 Current index      IP address range                Leased addresses
 108.45.22.1        108.45.22.1     - 108.45.22.254   0

Pool 1084522-2DHCP :
 Utilization mark (high/low)    : 100 / 0
 Subnet size (first/next)       : 0 / 0
 Total addresses                : 254
 Leased addresses               : 0
 Pending event                  : none
 1 subnet is currently in the pool :
 Current index      IP address range                Leased addresses
 108.45.21.1        108.45.21.1     - 108.45.21.254   0
R1#
```

ΤΕΛΟΣ ΑΝΑΦΟΡΑΣ