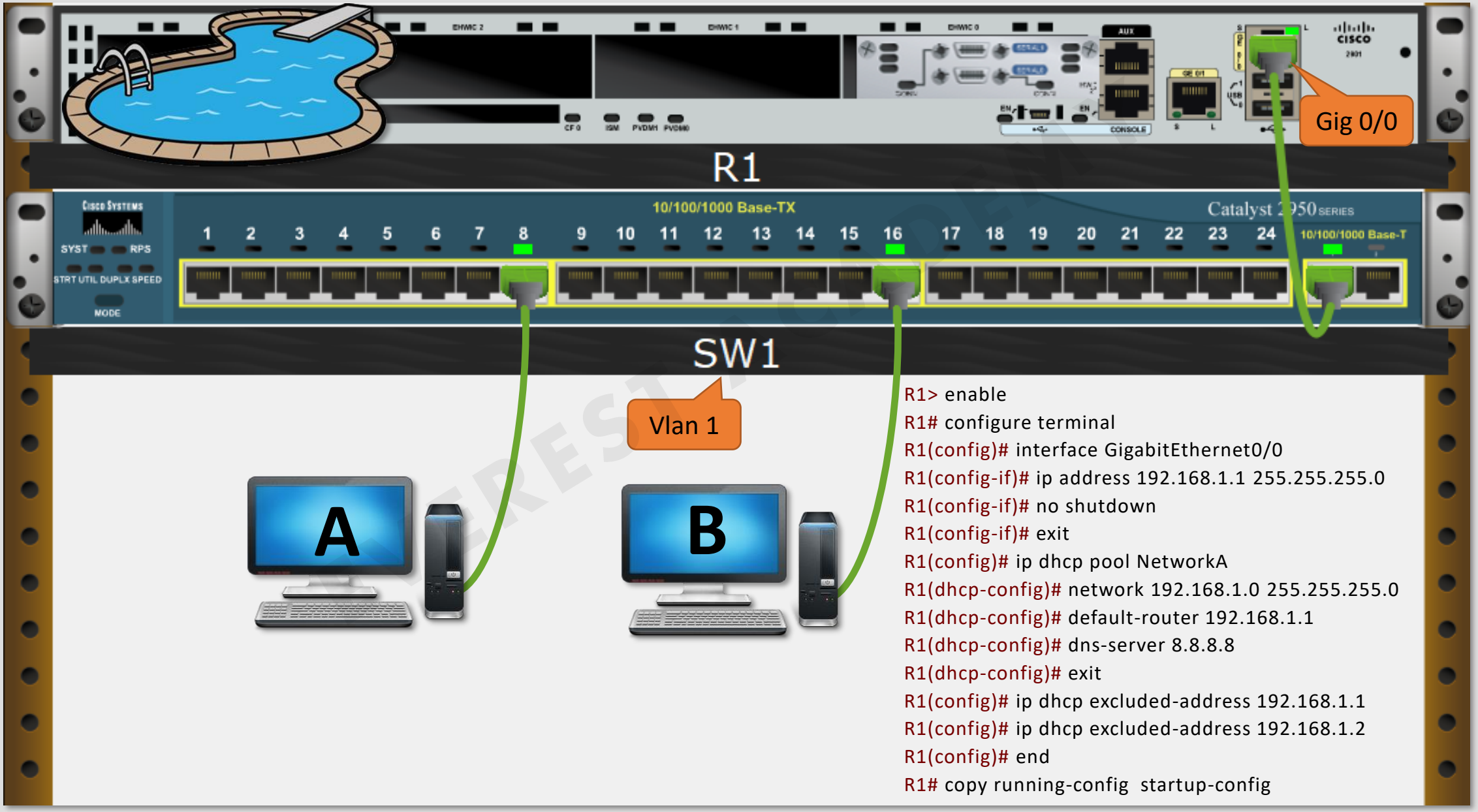
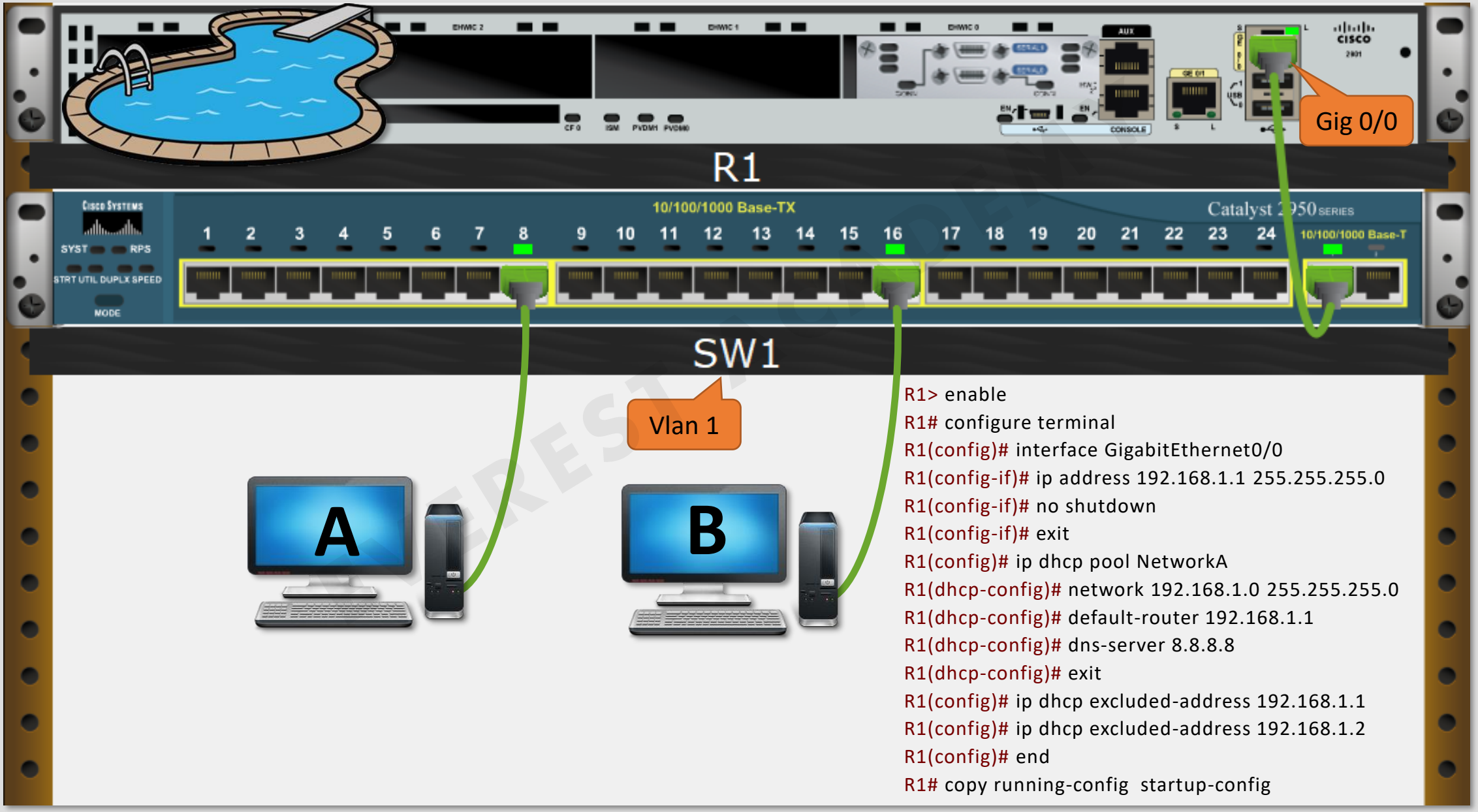
Configure Cisco router as DHCP server



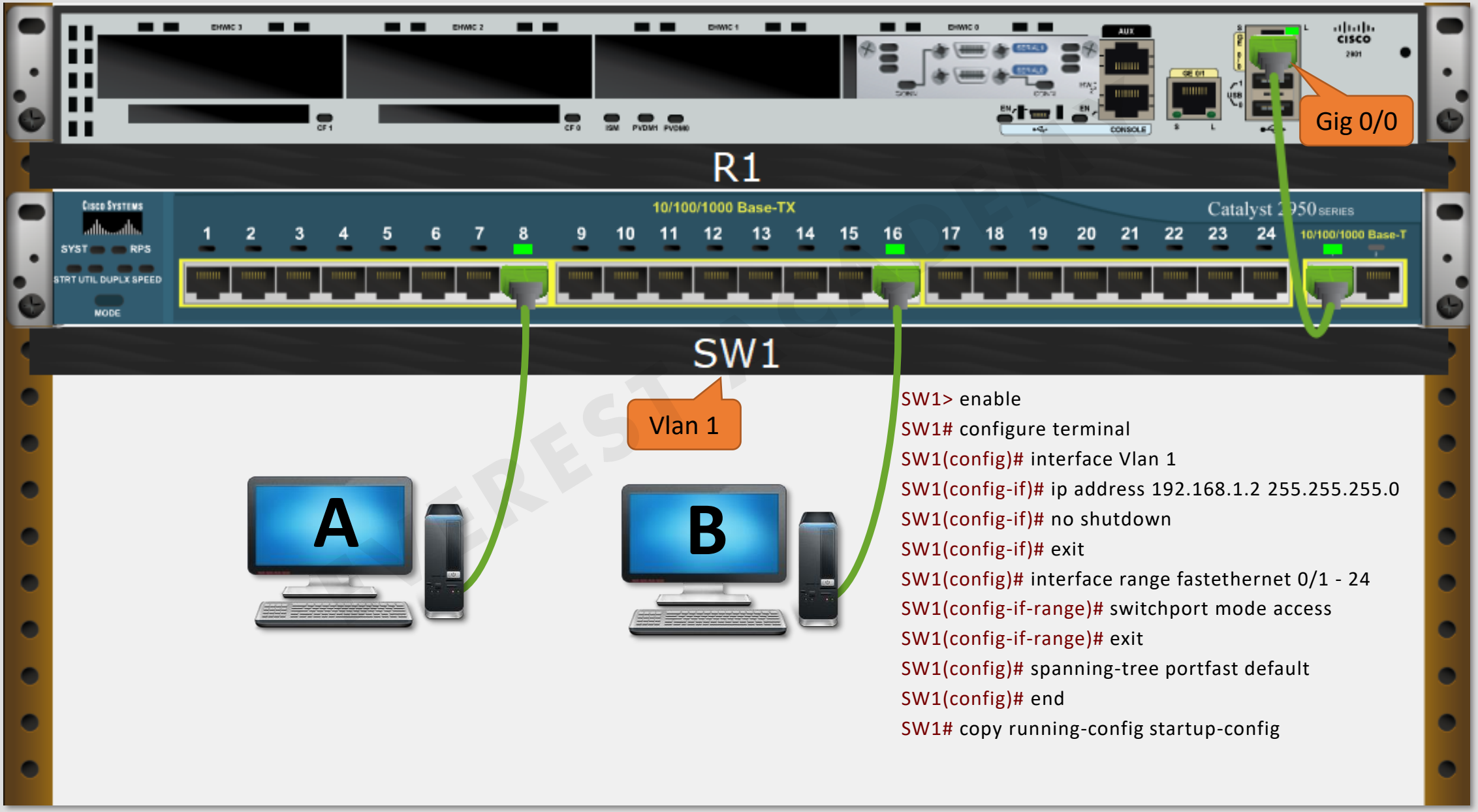

```
R1> enable
R1# configure terminal
R1(config)# interface GigabitEthernet0/0
R1(config-if)# ip address 192.168.1.1 255.255.255.0
R1(config-if)# no shutdown
R1(config-if)# exit
R1(config)# ip dhcp pool NetworkA
R1(dhcp-config)# network 192.168.1.0 255.255.255.0
R1(dhcp-config)# default-router 192.168.1.1
R1(dhcp-config)# dns-server 8.8.8.8
R1(dhcp-config)# exit
R1(config)# ip dhcp excluded-address 192.168.1.1
R1(config)# ip dhcp excluded-address 192.168.1.2
R1(config)# end
R1# copy running-config  startup-config
```

Configure Cisco router as DHCP server

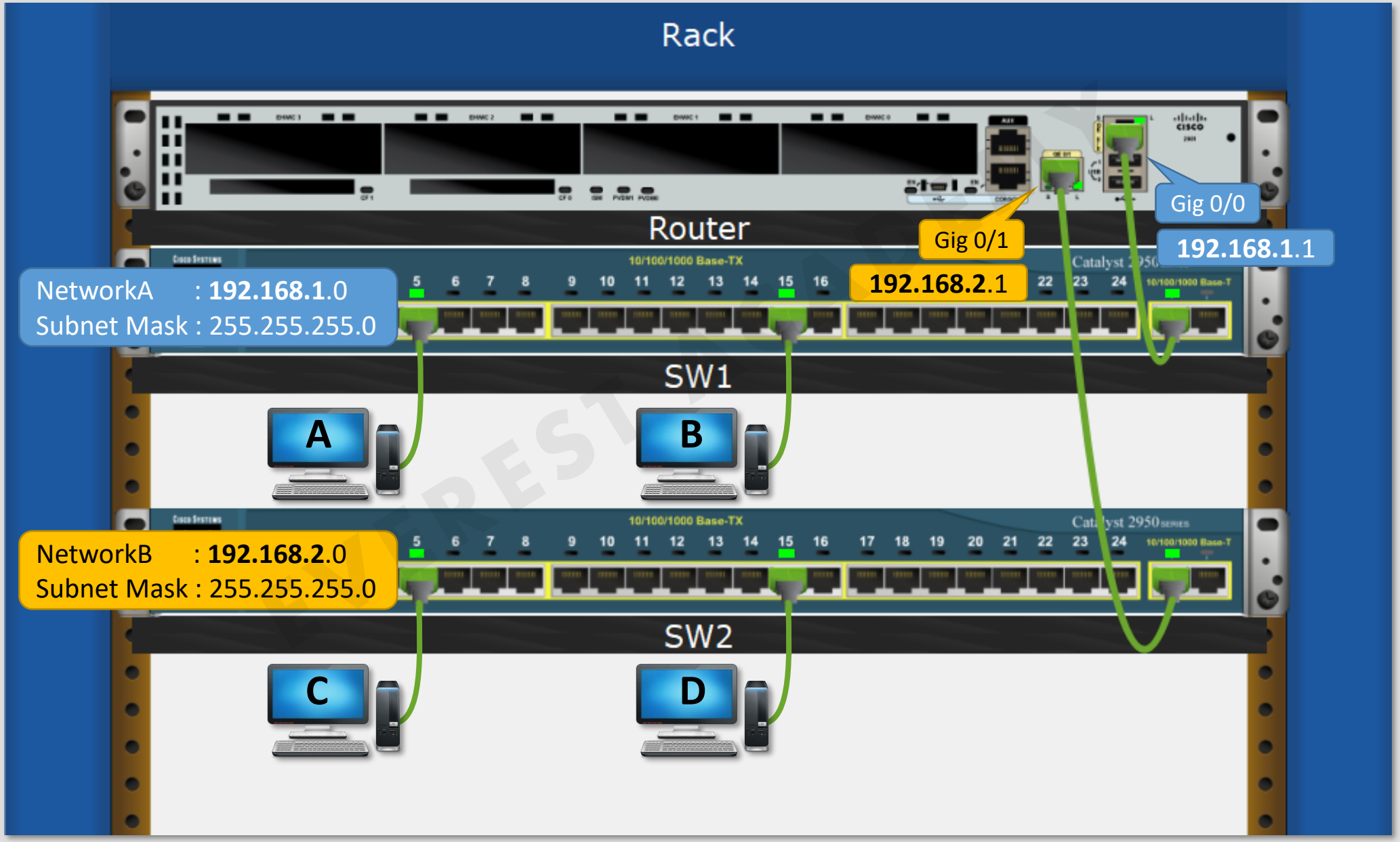



```
R1> enable
R1# configure terminal
R1(config)# interface GigabitEthernet0/0
R1(config-if)# ip address 192.168.1.1 255.255.255.0
R1(config-if)# no shutdown
R1(config-if)# exit
R1(config)# ip dhcp pool NetworkA
R1(dhcp-config)# network 192.168.1.0 255.255.255.0
R1(dhcp-config)# default-router 192.168.1.1
R1(dhcp-config)# dns-server 8.8.8.8
R1(dhcp-config)# exit
R1(config)# ip dhcp excluded-address 192.168.1.1
R1(config)# ip dhcp excluded-address 192.168.1.2
R1(config)# end
R1# copy running-config  startup-config
```

Configure Cisco router as DHCP server



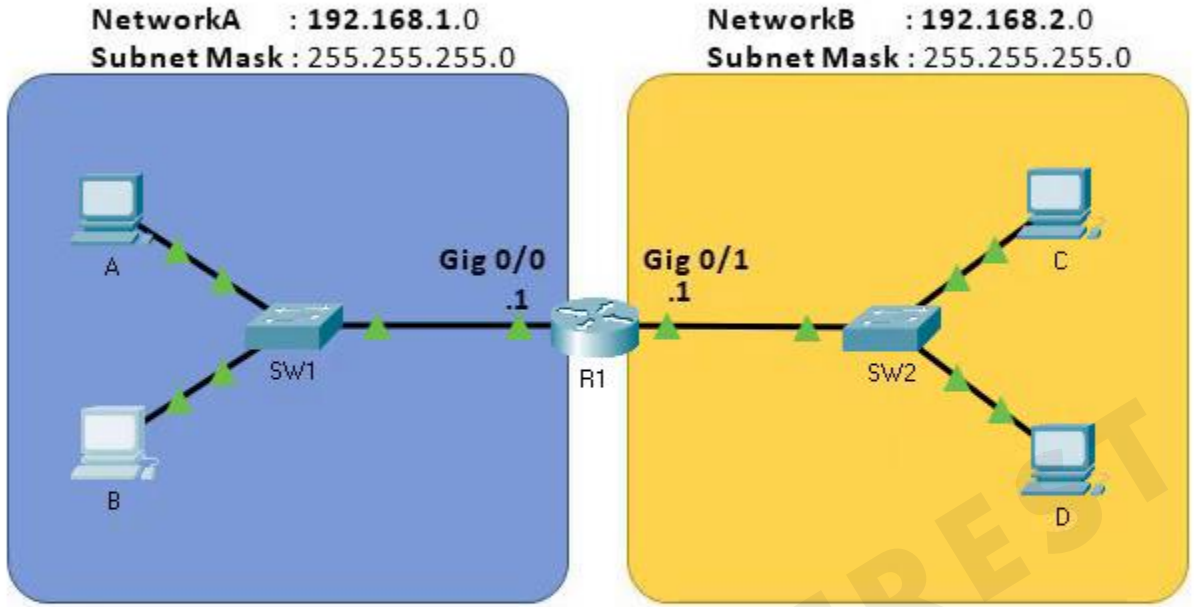
DHCP Server - Two Networks



رابط دورة المدخل الى شبكات سيسكو CCNA 200-301 على موقع يودمي , هذه الدورة من إعداد المدرب عبد الرحمن العلوش

File Edit Options View Tools E

Logical Physical x: 633, y: 92 [Root] 07:42:30




```
R1> enable
R1# configure terminal
R1(config)# interface GigabitEthernet0/0
R1(config-if)# ip address 192.168.1.1 255.255.255.0
R1(config-if)# no shutdown
R1(config-if)# exit
R1(config)# interface GigabitEthernet0/1
R1(config-if)# ip address 192.168.2.1 255.255.255.0
R1(config-if)# no shutdown
R1(config-if)# exit
R1(config)# ip dhcp pool NetworkA
R1(dhcp-config)# network 192.168.1.0 255.255.255.0
R1(dhcp-config)# default-router 192.168.1.1
R1(dhcp-config)# dns-server 8.8.8.8
R1(dhcp-config)# exit
R1(config)# ip dhcp pool NetworkB
R1(dhcp-config)# network 192.168.2.0 255.255.255.0
R1(dhcp-config)# default-router 192.168.2.1
R1(dhcp-config)# dns-server 8.8.8.8
R1(dhcp-config)# end
R1# copy running-config startup-config
```

EVEREST ACADEMY

Time: 00:14:57 Realtime Simulation

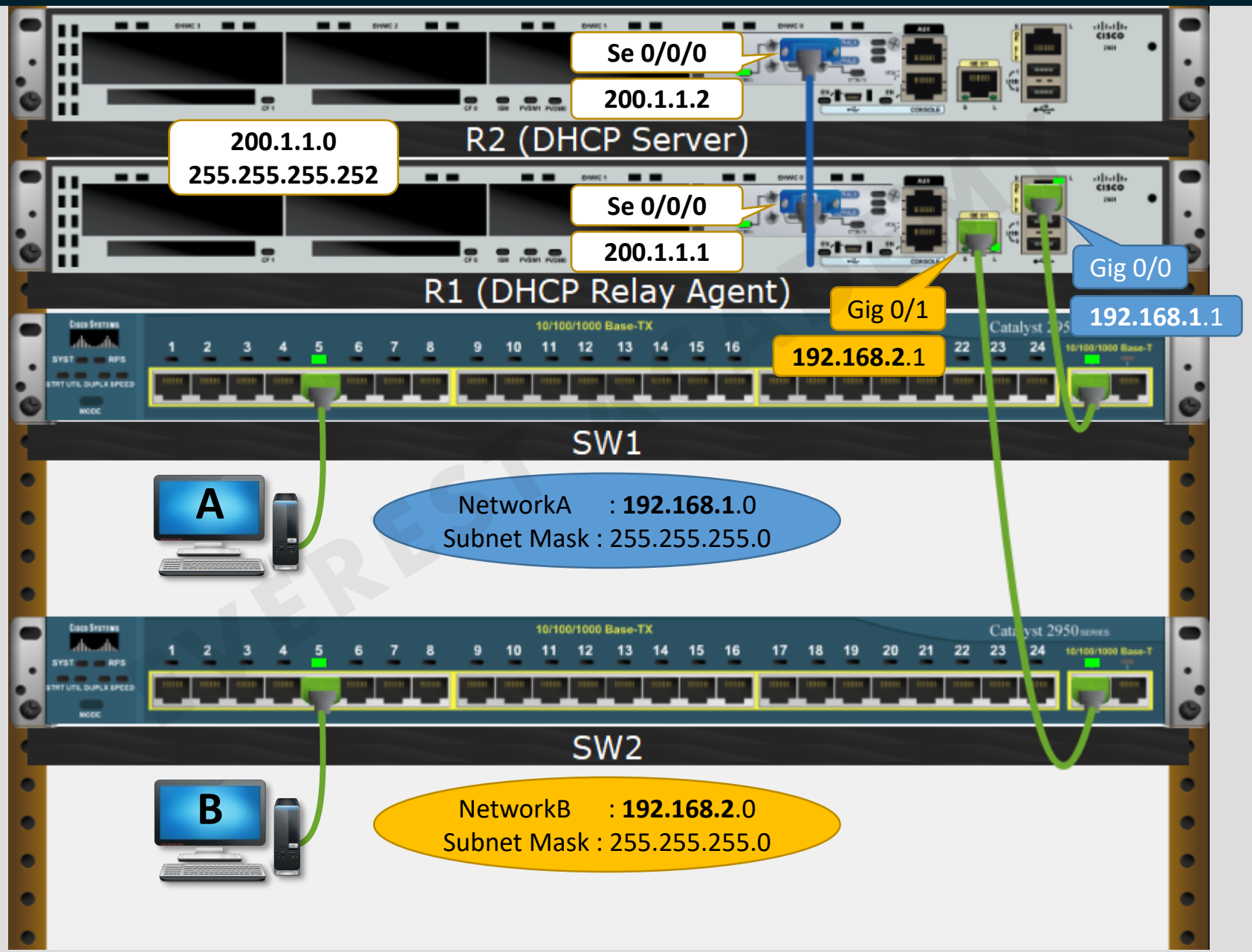
4331 4321 1941 2901 2911 819IOX 819HGW 829 1240 PT-Router PT-Empty 184

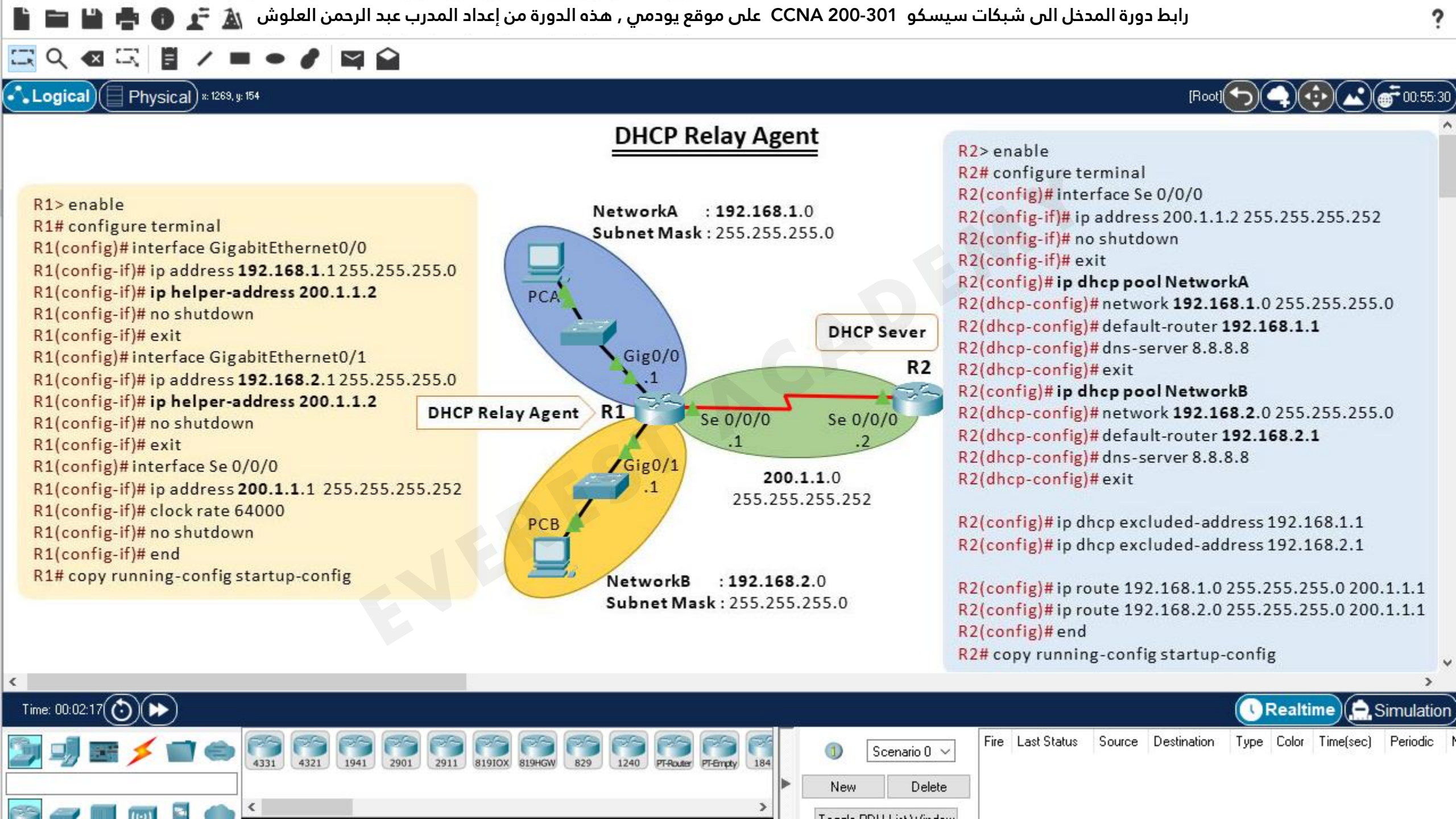
(Select a Device to Drag and Drop to the Workspace)

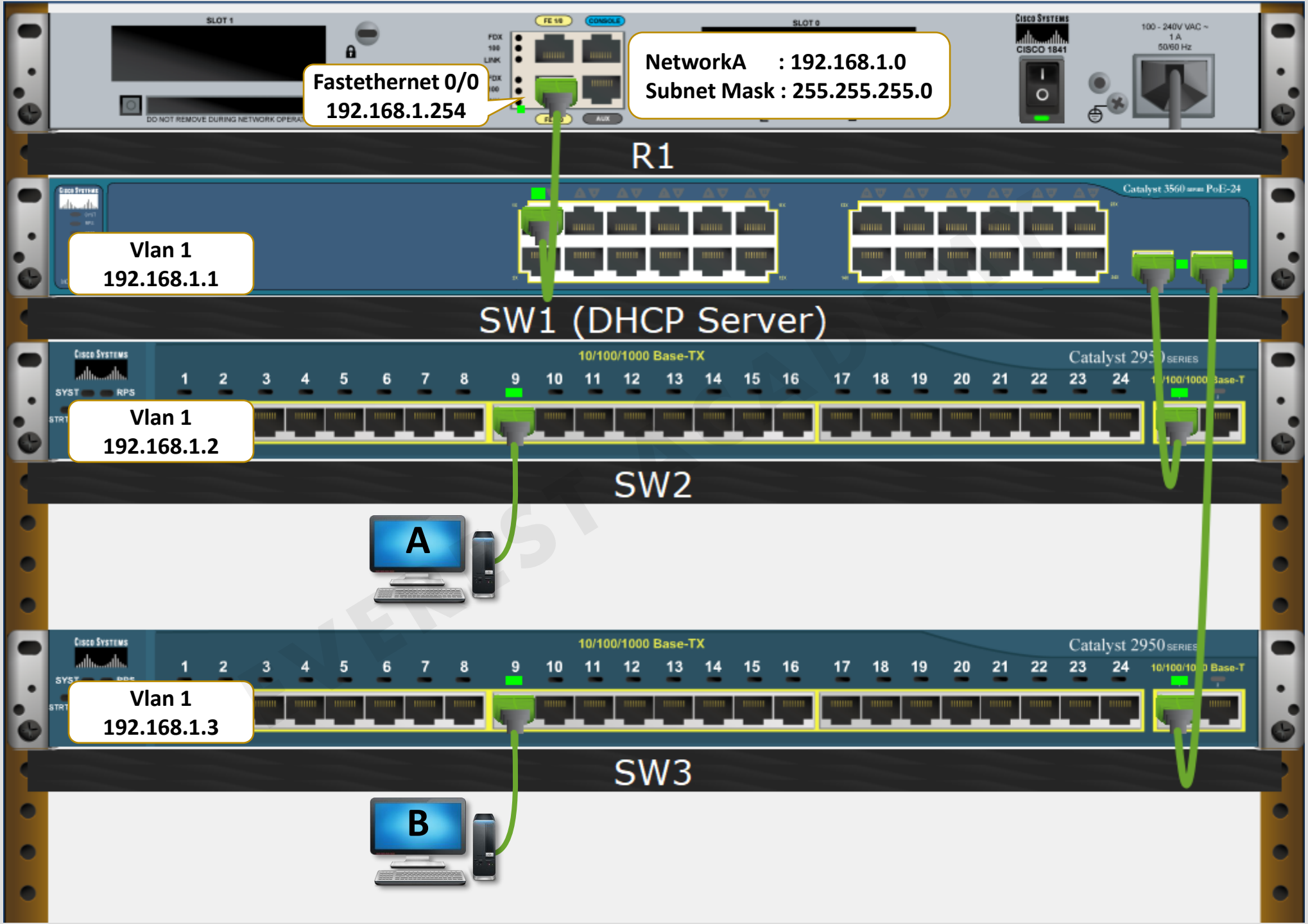
Scenario 0 New Delete Toggle PDU List Window

Fire | Last Status | Source | Destination | Type | Color | Time(sec) | Periodic

DHCP Relay Agent




رابط دورة المدخل الى شبكات سيسكو CCNA 200-301 على موقع يودمي , هذه الدورة من إعداد المدرب عبد الرحمن العلوش
Logical
Physical
x: 1269, y: 154
[Root]
00:55:30
DHCP Relay Agent
R1> enable
R1# configure terminal
R1(config)# interface GigabitEthernet0/0
R1(config-if)# ip address 192.168.1.1 255.255.255.0
R1(config-if)# ip helper-address 200.1.1.2
R1(config-if)# no shutdown
R1(config-if)# exit
R1(config)# interface GigabitEthernet0/1
R1(config-if)# ip address 192.168.2.1 255.255.255.0
R1(config-if)# ip helper-address 200.1.1.2
R1(config-if)# no shutdown
R1(config-if)# exit
R1(config)# interface Se 0/0/0
R1(config-if)# ip address 200.1.1.1 255.255.255.252
R1(config-if)# clock rate 64000
R1(config-if)# no shutdown
R1(config-if)# end
R1# copy running-config startup-config
NetworkA : 192.168.1.0
Subnet Mask : 255.255.255.0
PCA
Gig0/0
.1
DHCP Sever
R2
DHCP Relay Agent
R1
Se 0/0/0
.1
Se 0/0/0
.2
Gig0/1
.1
200.1.1.0
255.255.255.252
PCB
NetworkB : 192.168.2.0
Subnet Mask : 255.255.255.0
R2> enable
R2# configure terminal
R2(config)# interface Se 0/0/0
R2(config-if)# ip address 200.1.1.2 255.255.255.252
R2(config-if)# no shutdown
R2(config-if)# exit
R2(config)# ip dhcp pool NetworkA
R2(dhcp-config)# network 192.168.1.0 255.255.255.0
R2(dhcp-config)# default-router 192.168.1.1
R2(dhcp-config)# dns-server 8.8.8.8
R2(dhcp-config)# exit
R2(config)# ip dhcp pool NetworkB
R2(dhcp-config)# network 192.168.2.0 255.255.255.0
R2(dhcp-config)# default-router 192.168.2.1
R2(dhcp-config)# dns-server 8.8.8.8
R2(dhcp-config)# exit
R2(config)# ip dhcp excluded-address 192.168.1.1
R2(config)# ip dhcp excluded-address 192.168.2.1
R2(config)# ip route 192.168.1.0 255.255.255.0 200.1.1.1
R2(config)# ip route 192.168.2.0 255.255.255.0 200.1.1.1
R2(config)# end
R2# copy running-config startup-config
Time: 00:02:17
Realtime
Simulation
4331
4321
1941
2901
2911
819IOX
819HGW
829
1240
PT-Router
PT-Empty
Scenario 0
New
Delete
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic

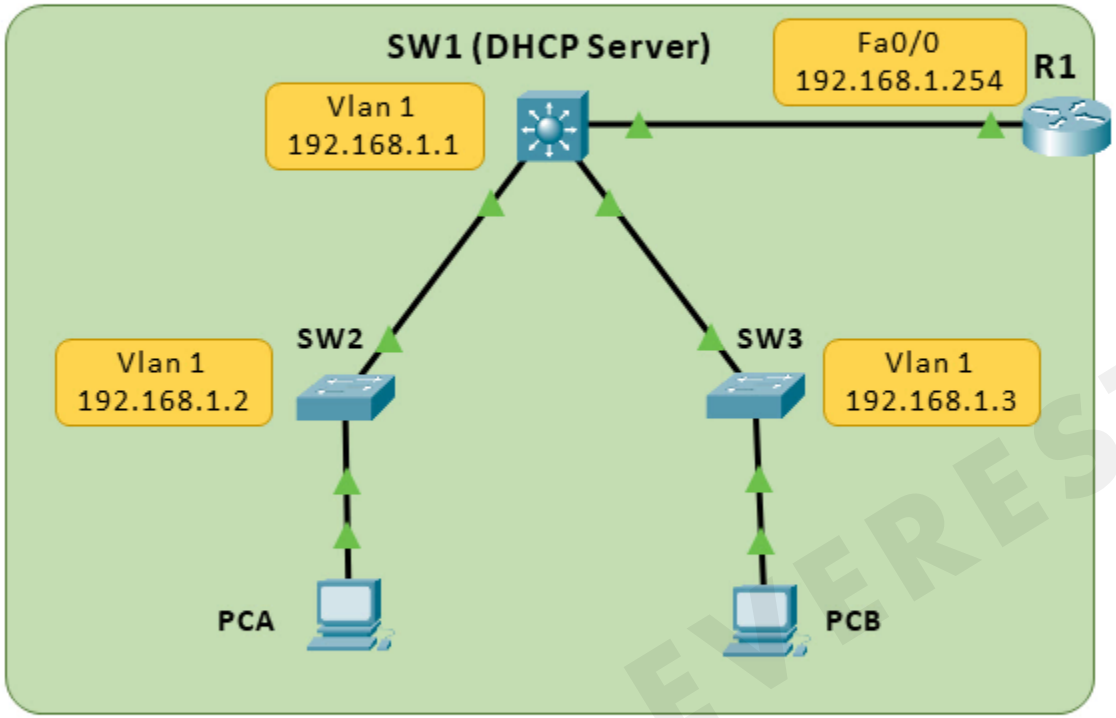

Fastethernet 0/0
192.168.1.254
NetworkA : 192.168.1.0
Subnet Mask : 255.255.255.0
R1
Vlan 1
192.168.1.1
SW1 (DHCP Server)
Vlan 1
192.168.1.2
SW2
A
Vlan 1
192.168.1.3
SW3
B

رابط دورة المدخل الى شبكات سيسكو CCNA 200-301 على موقع يودمي , هذه الدورة من إعداد المدرب عبد الرحمن العلوش

Logical | Physical | x: 719, y: 247 | [Root] | 10:02:00

Configure Cisco Multilayer Switch as DHCP server

NetworkA : 192.168.1.0
Subnet Mask : 255.255.255.0




```
SW1>enable
SW1#configure terminal
SW1(config)#interface vlan 1
SW1(config-if)#ip address 192.168.1.1 255.255.255.0
SW1(config-if)#no shutdown
SW1(config-if)#exit
SW1(config)#ip dhcp pool NetworkA
SW1(dhcp-config)#network 192.168.1.0 255.255.255.0
SW1(dhcp-config)#default-router 192.168.1.254
SW1(dhcp-config)#dns-server 8.8.8.8
SW1(dhcp-config)#exit
SW1(config)#ip dhcp excluded-address 192.168.1.1 192.168.1.3
SW1(config)#ip dhcp excluded-address 192.168.1.254
SW1(config)#exit
SW1#copy running-config startup-config
```

EVEREST ACADEMY

Time: 00:19:29 | Realtime | Simulation

4331 | 4321 | 1941 | 2901 | 2911 | 819IOX | 819HGW | 829 | 1240 | PT-Router | PT-Empty | 184

819HG-4G-IOX

Scenario 0 | New | Delete | Toggle PDU List Window

Fire | Last Status | Source | Destination | Type | Color | Time(sec) | Periodic | N