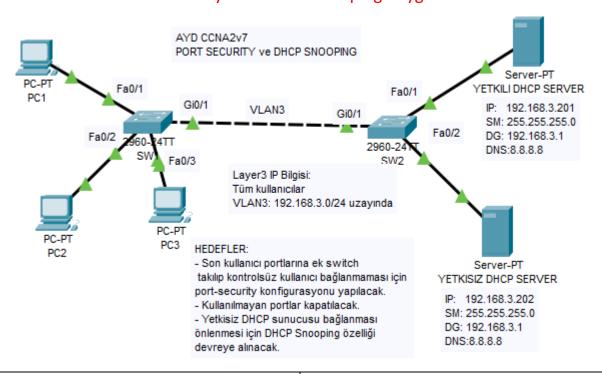
Ağ Yöneticileri Derneği CCNA3 LAB 11 - PROJE ÇÖZÜMÜ

"Port Security" ve "DHCP Snooping" Uygulaması



// ADIM1: SW1 ve SW2'de VLAN konfigurasyonu

//SW1

Switch> enable
Switch# conf t
Switch(config)# hostname SW1
SW1(config)# vlan 3
SW1(config-vlan)#name KULLANICILAR
SW1(config-vlan)# exit

SW1(config)# interface range FastEthernet 0/1 - 3
SW1(config-if-range)# switchport mode access
SW1(config-if-range)# switchport access vlan 3
SW1(config)# interface Gi 0/1
SW1(config-if)# switchport mode access
SW1(config-if)# switchport access vlan 3
SW1(config-if-range)# end

SW1#show vlan brief			
VLAN	Name	Status	Ports
1	default	active	Fa0/4, Fa0/5, Fa0/6, Fa0/7 Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 Fa0/20, Fa0/21, Fa0/22, Fa0/23 Fa0/24, Gig0/2
3	KULLANICILAR	active	Fa0/1, Fa0/2, Fa0/3, Gig0/1

SW1(config)# interface range FastEthernet 0/4-24 SW1(config-if-range)# shutdown SW1(config-if-range)# end SW1# wr Building configuration...

//SW2

Switch> enable
Switch# conf t
Switch(config)# hostname SW2
SW2(config)# vlan 3
SW2(config-vlan)#name KULLANICILAR
SW2(config-vlan)# exit

SW1(config)# interface range FastEthernet 0/1 - 2 SW1(config-if-range)# switchport mode access SW1(config-if-range)# switchport access vlan 3 SW1(config)# interface Gi 0/1 SW1(config-if)# switchport mode access SW1(config-if)# switchport access vlan 3 SW1(config-if-range)# end

SW1(config)# interface range FastEthernet 0/3-24 SW1(config-if-range)# shutdown SW1(config-if-range)# end SW1# wr Building configuration...

// ADIM2: PORT-SECURITY

//SW1

SW1(config)#interface FastEthernet 0/1

SW1(config-if)# switchport port-security // port-security açıldı. default'ta max:1MAC, ihlalde port kapatılır.

SW1(config-if)# switchport port-security maximum 1

SW1(config-if)# switchport port-security violation protect

SW1(config)#interface range FastEthernet 0/2 - 3

SW1(config-if)# switchport port-security

SW1(config-if)# switchport port-security maximum 1

SW1(config-if)# switchport port-security violation protect

TÜM SEÇENEKLER:

SW1(config-if)# switchport port-security violation protect

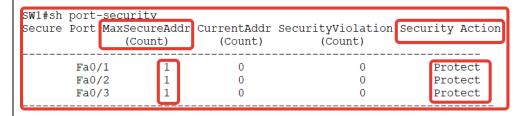
PORT AÇIK KALACAK, LOG TUTULMAYACAK, BELIRTILEN ADRESTEN FAZLA BAĞLANAN KİŞİLERE İZİN VERİLMEYECEK.

SW1(config-if)# switchport port-security violation restrict

PORT AÇIK KALACAK, LOG SUNUCUSUNA LOG ILETILECEK, BELIRTILEN ADRESTEN FAZLA BAĞLANAN KİŞİLERE İZİN VERİLMEYECEK.

SW1(config-if)# switchport port-security violation shutdown (default mode)

PORT "SHUTDOWN" KAPATILACAK.



// ADIM3: DHCP SNOOPING

- Yetkisiz DHCP sunucusu IP dağıtmaktadır. Bu sunucu herhangi bir porta takılı bir bilgisayar olabilir.
- IP Dağıtımının önüne geçmek için **DHCP Snooping** özelliği devreye alınacak. DHCP Snooping özelliği açıldıktan sonra sadece **trusted** portlardan DHCP Sunucu paketleri iletilebilir.

// ADIM3: DHCP SNOOPING Konfigurasyonu SW1(config)# ip dhcp snooping SW2(config)# ip dhcp snooping SW1(config)# interface Gi 0/1 SW2(config)# interface Fa 0/1 SW1(config-if)# ip dhcp snooping trust SW2(config-if)# ip dhcp snooping trust SW1(config-if)# exit SW2(config-if)# exit SW1(config)# ip dhcp snooping vlan 3 SW2(config)# ip dhcp snooping vlan 3 SW1(config)# end SW2(config)# end SW1# SW2# SW1# show ip dhcp snooping SW2# show ip dhcp snooping Switch DHCP snooping is enabled Switch DHCP snooping is enabled DHCP snooping is configured on following VLANs: 3 DHCP snooping is configured on following VLANs: 3 Insertion of option 82 is enabled Insertion of option 82 is enabled Option 82 on untrusted port is not allowed Option 82 on untrusted port is not allowed Verification of hwaddr field is enabled Verification of hwaddr field is enabled Trusted Rate limit (pps) Interface Interface Trusted Rate limit (pps) GigabitEthernet0/1 yes unlimited FastEthernet0/1 yes unlimited