**Commands for Router**

en

config t

do show ip dhcp pool vlan10

do show running-config | include ip dhcp excluded-address

ip dhcp excluded-address 192.168.10.252 192.168.10.254

ip dhcp excluded-address 192.168.20.252 192.168.20.254

ip dhcp excluded-address 192.168.30.252 192.168.30.254

do wr

exit

ip access-list extended RESTRICT\_GUEST\_VLAN10

deny ip 192.168.10.252 0.0.0.0 any

deny ip 192.168.10.253 0.0.0.0 any

deny ip 192.168.10.254 0.0.0.0 any

permit ip 192.168.10.0 0.0.0.255 192.168.10.0 0.0.0.255

exit

ip access-list extended RESTRICT\_GUEST\_VLAN20

deny ip 192.168.20.252 0.0.0.0 any

deny ip 192.168.20.253 0.0.0.0 any

deny ip 192.168.20.254 0.0.0.0 any

permit ip 192.168.20.0 0.0.0.255 192.168.20.0 0.0.0.255

exit

ip access-list extended RESTRICT\_GUEST\_VLAN30

deny ip 192.168.30.252 0.0.0.0 any

deny ip 192.168.30.253 0.0.0.0 any

deny ip 192.168.30.254 0.0.0.0 any

permit ip 192.168.30.0 0.0.0.255 192.168.30.0 0.0.0.255

exit

do show ip interface brief

interface GigabitEthernet0/0.10

ip access-group RESTRICT\_GUEST\_VLAN10 out

exit

interface GigabitEthernet0/0.20

ip access-group RESTRICT\_GUEST\_VLAN20 in

exit

interface GigabitEthernet0/0.30

ip access-group RESTRICT\_GUEST\_VLAN30 in

exit

do show running-config | include ip access-group

do show ip interface GigabitEthernet0/0.10

do show ip interface GigabitEthernet0/0.20

do show ip interface GigabitEthernet0/0.30

do show access-lists RESTRICT\_GUEST\_VLAN10

do show access-lists RESTRICT\_GUEST\_VLAN20

do show access-lists RESTRICT\_GUEST\_VLAN30

**Commands for Switch 1(SW1)**

int range fa0/5-7

switchport mode access

switchport access vlan 10

exit

do sh vlan br

**Commands for Switch 2(SW2)**

int range fa0/5-7

switchport mode access

switchport access vlan 20

exit

do sh vlan br

**Commands for Switch 3(SW3)**

int range fa0/5-7

switchport mode access

switchport access vlan 30

exit

do sh vlan br

**ip addresses of guest PCs**

192.168.10.252

192.168.10.253

192.168.10.254

192.168.20.252

192.168.20.253

192.168.20.254

192.168.30.252

192.168.30.253

192.168.30.254

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ip access-list extended RESTRICT\_GUEST\_VLAN10

permit udp any eq 68 any eq 67

permit udp any eq 67 any eq 68

deny ip 192.168.10.252 0.0.0.0 any

deny ip 192.168.10.253 0.0.0.0 any

deny ip 192.168.10.254 0.0.0.0 any

permit ip 192.168.10.0 0.0.0.255 192.168.10.0 0.0.0.255

exit

ip access-list extended RESTRICT\_GUEST\_VLAN20

permit udp any eq 68 any eq 67

permit udp any eq 67 any eq 68

deny ip 192.168.20.252 0.0.0.0 any

deny ip 192.168.20.253 0.0.0.0 any

deny ip 192.168.20.254 0.0.0.0 any

permit ip 192.168.20.0 0.0.0.255 192.168.20.0 0.0.0.255

exit

ip access-list extended RESTRICT\_GUEST\_VLAN30

permit udp any eq 68 any eq 67

permit udp any eq 67 any eq 68

deny ip 192.168.30.252 0.0.0.0 any

deny ip 192.168.30.253 0.0.0.0 any

deny ip 192.168.30.254 0.0.0.0 any

permit ip 192.168.30.0 0.0.0.255 192.168.30.0 0.0.0.255

exit

do wr