## Practica #4: NAT y DHCP

Oscar Andrés Rosas Hernández Instituto Politécnico Nacional, Escuela Superior de Cómputo, CDMX

## I. TAREA NAT Y DHCP

Muy buena practica, fue muy interesante finalmente entender como funciona DHCP y como como se configura un servidor NAT

Lista de pasos realizados:

```
# PC Server Internal
 ip 192.168.30.254 /24 192.168.30.1
# R1 - Relay DHCP
 interface FastEthernet 0/0 !--> Server
 ip address 10.1.1.1 255.255.255.252
 interface FastEthernet 0/1 !--> Server
 ip address 192.168.30.1 255.255.255.0
 interface FastEthernet 1/0 !--> PC1
 ip address 192.168.10.1 255.255.255.0
 ip helper-address 10.1.1.2
 interface FastEthernet 2/0 !--> PC2
 ip address 192.168.11.1 255.255.255.0
 ip helper-address 10.1.1.2
 router ospf 1
   redistribute connected subnets
   redistribute static subnets
   network 10.1.1.0 0.0.0.3 area 0
# R2 - Server DHCP
 interface FastEthernet 0/0 !--> LAN
  ip address 10.1.1.2 255.255.255.252
 ip nat inside
 interface FastEthernet 0/1 !--> Internet
 ip address 209.165.200.225 255.255.255.252
 ip nat outside
 ip dhcp excluded-address 192.168.30.1 192.168.30.254
 ip dhcp pool Central10
   network 192.168.10.0 255.255.255.0
   default-router 192.168.10.1
   dns-server 192.168.30.254
 ip dhcp pool Centrall1
   network 192.168.11.0 255.255.255.0
   default-router 192.168.11.1
   dns-server 192.168.30.254
 router ospf 1
   redistribute connected subnets
   redistribute static subnets
   network 10.1.1.0 0.0.0.3 area 0
 access-list 1 permit 192.168.0.0 0.0.255.255
 ip nat pool RangeNAT 209.165.200.248 209.165.200.254 netmask 255.255.255.248
 ip nat inside source list 1 pool Range overload
 ip nat inside source static 192.168.30.254 209.165.200.254
# R3 - TSP
 interface FastEthernet 0/1 !--> LAN
```

```
ip address 209.165.200.226 255.255.255.252
interface FastEthernet 0/0 !--> Server
ip address 8.8.8.1 255.255.255.0
ip route 209.165.200.248 255.255.255.248 f0/1

# PC Server External
ip 8.8.8.10 /24 8.8.8.1
```

## Evidencias





