

Configure DHCP Server

```
R1> enable
R1# configure terminal
R1(config)# int f0/0
R1(config-if)# ip address 10.1.1.2 255.255.255.0
R1(config-if)# no shut
R1(config-if)# copy run start
R1(config-if)# exit
R1(config)# ip dhcp pool Development
R1(dhcp-config)# network 10.1.1.0 255.255.255.0
R1(dhcp-config)# dhcp server ip 10.1.1.2
```

dhcp server ip MUST be on the same subnet as router IP

Other Misc DHCP Configuration

```
R1(dhcp-config)# default-router 10.1.1.2
R1(dhcp-config)# dns-server 10.1.1.2
R1(config-if)# lease 7
```

Configure DHCP Server (cont)

```
R1(dhcp-config)# ip dhcp excluded-address 10.1.1.11
R1(dhcp-config)# domain-name google.com
R1(config-if)# option 150 10.1.1.2 static assignment
R1(dhcp-config)# exit
ip dhcp helper-address 192.168.1.245 [ip address of dhcp server] - ids the dhcp router and allows broadcast UDP traffic for dhcp assignment
int f0/0
ip helper-address 192.168.2.245
```

Verify DHCP

```
R1(config-dhcp)# show ip pool
R1(config-dhcp)# show ip lease
R1(config-dhcp)# show ip binding
```

NAT

```
ip nat pool name [first IP] [last IP] net [subnet mask]
ip nat inside source list [acl#] pool name overload
```



NAT (cont)

ip nat inside	identifies inside interface (int config)
ip nat out	ip nat outside
ip nat in s st 192.168.1.10 209.16-5.200.18	configures static NAT mapping
sh ip nat s	show ip nat statistics
show ip nat statistics	show ip nat translations

Configure DHCP Client

R1> *enable*

R1# *configure terminal*

R1(config)# *int f0/0*

R1(config)# *mac-address aaaa.bbbb.cccc*

R1(config)# *ip address dhcp*

R1(dhcp-config)# *domain-name*

R1(config)# *no shut*

R1(co nfig- if)# *ip dhcp client- id ascii PC2*

R1# displays leasing information
show dhcp lease



By Mary F. Smith (boogie)
cheatography.com/boogie/

Not published yet.
Last updated 31st March, 2022.
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