

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** Development is the name of the pool

R1(dhcp-config)# network **10.1.0 255.255.255.0** this is the network IP addresses will be assigned from

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** default gateway

R1(dhcp-config)# dns-server **10.1.1.2** this will normally be another server on your network

R1(config-if)# lease **7** choices are number of days or infinite

R1(dhcp-config)# ip dhcp excluded-address **10.1.1.11** 'this can be a range i.e. 10.1.1.5

R1(dhcp-config)# domain-name **google.com**

R1(config-if)# option XX

10.1.1.2 static assignment

R1(dhcp-config)# exit

ip dhcp helper-address

ip 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 allocated addresses
```

NAT

ip nat pool name [first IP] [last IP] net [subnet mask] defines the pool of public addresses to use

ip nat inside source list [acl#] pool name overload enables PAT & specifies which ACL is being translated to which NAT pool

ip nat inside identifies inside interface (int config)

ip nat out ip nat outside

ip nat in s st 192.168.1.10 209.165.200.18 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(config-if)# ip dhcp client-id ascii PC2 allows a user friendly id to be assigned to a host

R1# show dhcp lease displays leasing information



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Page 1 of 1.

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