

7.4.1/7.4.2 - Implement DHCPv4

Configure the excluded IPv4 address

```
ip dhcp excluded-address 192.168.10.1 192.168.10.10
ip dhcp excluded-address 192.168.30.1 192.168.30.10
```

Create a DHCP pool on R2 for the R1 LAN

```
ip dhcp pool R1-LAN
network 192.168.10.0 255.255.255.0
default-router 192.168.10.1
dns-server 192.168.20.254
```

Create a DHCP pool on R3 for the R1 LAN

```
ip dhcp pool R3-LAN
network 192.168.10.0 255.255.255.0
default-router 192.168.30.1
dns-server 192.168.20.254
```

Configure R1 and R3 as a DHCP relay agent

```
interface g0/0
ip helper-address 10.1.1.2
```

Set PC1 and PC2 to receive IP addressing information from DHCP

Set PCs to DHCP

Configure R2 as a DHCP Client

```
interface g0/1
ip address dhcp
no shut
```

8.5.1 - Configure DHCPv6

Configure interfaces and routing for both routers

```
ipv6 unicast-routing
interface {interface}
ipv6 address {ipv6-address}
ipv6 address {linklocal} link-local
no shutdown
ipv6 route ::/0 2001:db8:acad:2::2 (R1)
ipv6 route ::/0 2001:db8:acad:2::1 (R2)
```

Configure R1 to provide stateless DHCPv6 for PC-A

```
ipv6 dhcp pool R1-STATELESS
dns-server 2001:db8:acad::254
domain-name STATELESS.com
interface g0/0/1
ipv6 nd other-config-flag
ipv6 dhcp server R1-STATELESS
```

Configure a stateful DHCPv6 server on R1

```
ipv6 dhcp pool R2-STATEFUL
address prefix 2001:db8:acad:3:aaa::/80
dns-server 2001:db8:acad::254
domain-name STATEFUL.com
interface g0/0/0
ipv6 dhcp server R2-STATEFUL
```



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