

Exclude addresses

```
R2 (config)#ip dhcp excluded-address 192.168.10.1 192.168.10.10
R2 (config)#ip dhcp excluded-address 192.168.30.1 192.168.30.10
```

Um einen DHCP-Pool genauer zu definieren, kann man nicht erwünschte Adressen entfernen.

DHCP Relay

```
R3 (config)#interface g0/0
R3 (config-if)#ip helper-address 10.2.2.2
```

DHCP-Requests werden über dieses Interface zum DHCP-Server weitergeleitet.

DHCP für Endgeräte im Packet Tracer

IP Configuration	
<input checked="" type="radio"/> DHCP	<input type="radio"/> Static
DHCP request successful.	
IP Address	192.168.10.11
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
DNS Server	192.168.20.254

DHCP-Pool erstellen

```
R2 (config)#ip dhcp pool R1-LAN
R2 (dhcp-config)#network 192.168.10.0 255.255.255.0
R2 (dhcp-config)#default-router 192.168.10.1
R2 (dhcp-config)#dns-server 192.168.20.254
```

Interface eines Routers als DHCP-Client

```
R2 (config)#interface g0/1
R2 (config-if)#ip address dhcp
R2 (config-if)#no shut
```

DHCPv6 Stateless Server erstellen

```
Router (config)#ipv6 dhcp pool R1-STATELESS
Router (config-dhcpv6)#dns-server 2001:db8:acad::254
Router (config-dhcpv6)#domain-name STATELESS.com
```

IPv6 Adresse auf ein Interface setzen



```
Router (config-if)#ipv6 address 2001:db8:acad:2::1/64
Router (config-if)#ipv6 address fe80::1 link-local
Router (config-if)#no shut
```

IPv6 Route

```
Router (config-if)#exit
Router (config)#ipv6 route ::/0 2001:db8:acad:2::2
```

DHCPv6-Server Stateless

```
Router (config-if)#ipv6 nd other-config-flag
Router (config-if)#ipv6 dhcp server R1-STATELESS
Router (config-if)#
```

DHCPv6 Stateful Server erstellen

```
Router (config)#ipv6 dhcp pool R2-STATEFUL
Router (config-dhcpv6)#dns-server 2001:db8:acad::254
Router (config-dhcpv6)#domain-name STATEFUL.com
Router (config-dhcpv6)#address prefix 2001:db8:acad:3:aaa::/80
```

DHCPv6-Server Stateful

```
Router (config)#int g0/0/0
Router (config-if)#ipv6 dhcp server R2-STATEFUL
```



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