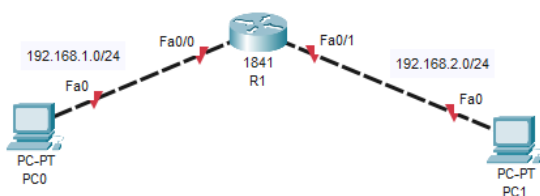


组网及说明



本案例采用思科模拟器的路由器作为DHCP服务器给PC分配IP地址，实现PC的IP地址自动获取和PC之间相互PING通。

配置步骤

- 1、按照网络拓扑图配置IP地址。
- 2、在R1配置DHCP。

配置关键点

R1:

```
Router>ena
```

```
Router#conf t
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Router(config)#hos R1
```

```
R1(config)#int f 0/0
```

```
R1(config-if)#ip address 192.168.1.1 255.255.255.0
```

```
R1(config-if)#no shutdown
```

```
R1(config-if)#exit
```

```
R1(config)#int f 0/1
```

```
R1(config-if)#ip address 192.168.2.1 255.255.255.0
```

```
R1(config-if)#no shutdown
```

```
R1(config-if)#exit
```

```
R1(config)#ip dhcp pool vlan10
```

```
R1(dhcp-config)#network 192.168.1.0 255.255.255.0
```

```
R1(dhcp-config)#default-router 192.168.1.1
```

```
R1(dhcp-config)#dns-server 8.8.8.8
```

```
R1(dhcp-config)#exit
```

```
R1(config)#ip dhcp pool vlan20
```

```
R1(dhcp-config)#network 192.168.2.0 255.255.255.0
```

```
R1(dhcp-config)#default-router 192.168.2.1
```

```
R1(dhcp-config)#dns-server 8.8.8.8
```

```
R1(dhcp-config)#exit
```

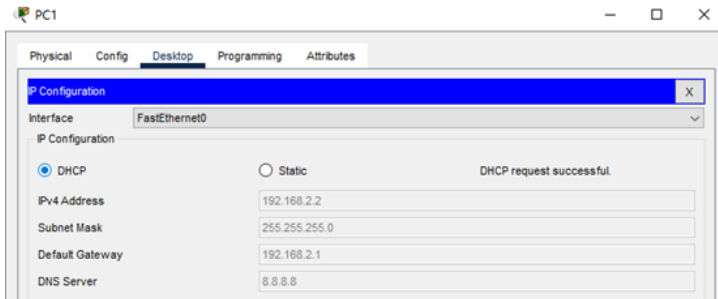
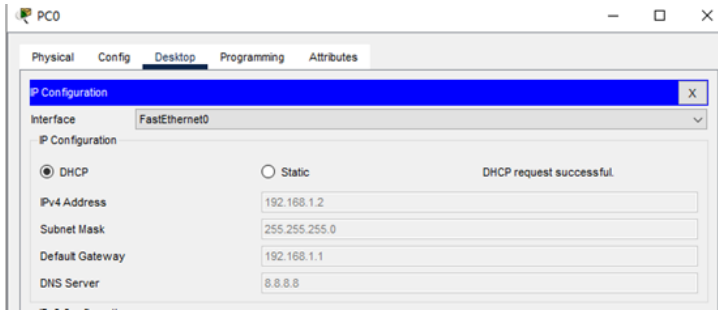
```
R1(config)#do wr
```

```
Building configuration...
```

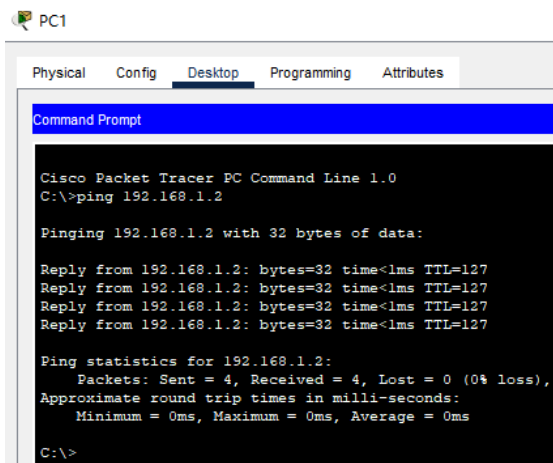
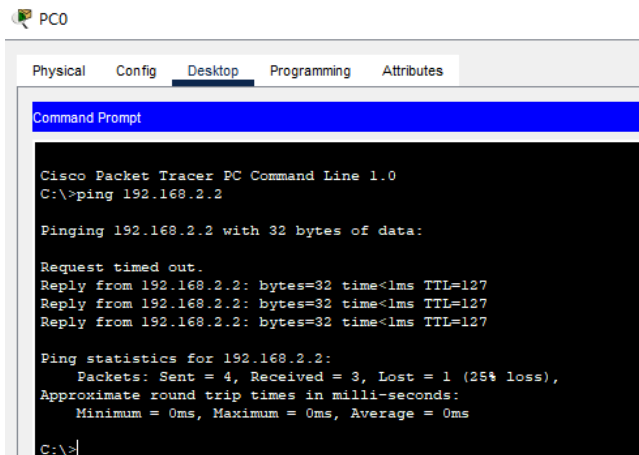
```
[OK]
```

```
R1(config)#
```

PC的IP设置为DHCP自动获取，能获取到IP地址。



PC之间能相互PING通。



在R1也能查看到DHCP分配的情况。

```
~*~*~
R1#show ip dhcp pool

Pool vlan10 :
Utilization mark (high/low) : 100 / 0
Subnet size (first/next) : 0 / 0
Total addresses : 254
Leased addresses : 1
Excluded addresses : 0
Pending event : none

1 subnet is currently in the pool
Current index IP address range Leased/Excluded/Total
192.168.1.1 192.168.1.1 - 192.168.1.254 1 / 0 / 254

Pool vlan20 :
Utilization mark (high/low) : 100 / 0
Subnet size (first/next) : 0 / 0
Total addresses : 254
Leased addresses : 1
Excluded addresses : 0
Pending event : none

1 subnet is currently in the pool
Current index IP address range Leased/Excluded/Total
192.168.2.1 192.168.2.1 - 192.168.2.254 1 / 0 / 254
R1#
```

至此，思科路由器DHCP典型组网配置案例已完成！