Configuración del servidor DHCP en router R1


```
R1
                                                                          [_][□][✕]
R1#show ip int brief
Interface                IP-Address      OK? Method Status                Protocol
FastEthernet0/0          unassigned      YES unset  administratively down down
FastEthernet0/1          unassigned      YES unset  administratively down down
FastEthernet1/0          unassigned      YES unset  administratively down down
R1#conf ter
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#service dhcp
R1(config)#ip dhcp pool POOL
R1(dhcp-config)#network 192.168.0.0 255.255.255.0
R1(dhcp-config)#default-router 192.168.0.1
R1(dhcp-config)#dns-server 8.8.8.8 8.8.4.4
R1(dhcp-config)#lease 24
R1(dhcp-config)#exit
R1(config)#ip dhcp excluded-address 192.168.0.2 192.168.0.10
R1(config)#exit
R1#
*Mar  1 00:04:08.851: %SYS-5-CONFIG_I: Configured from console by console
R1#conf ter
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#int f0/0
R1(config-if)#ip add 192.168.0.1 255.255.255.0
R1(config-if)#no sh
R1(config-if)#exit
```



```
R1
                                                                          [_][□][✕]
*Mar  1 00:04:48.827: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar  1 00:04:49.827: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1(config-if)#exit
R1(config)#exit
R1#
*Mar  1 00:04:55.823: %SYS-5-CONFIG_I: Configured from console by console
R1#show ip int brief
Interface                IP-Address      OK? Method Status                Protocol
FastEthernet0/0          192.168.0.1     YES manual up                    up
FastEthernet0/1          unassigned      YES unset  administratively down down
FastEthernet1/0          unassigned      YES unset  administratively down down
R1#show ip dhcp binding
Bindings from all pools not associated with VRF:
IP address          Client-ID/             Lease expiration        Type
                    Hardware address/
                    User name
192.168.0.11        0100.5079.6668.00      Mar 25 2002 12:06 AM    Automatic
R1#show ip dhcp binding
Bindings from all pools not associated with VRF:
IP address          Client-ID/             Lease expiration        Type
                    Hardware address/
                    User name
192.168.0.11        0100.5079.6668.00      Mar 25 2002 12:06 AM    Automatic
192.168.0.12        0100.5079.6668.03      Mar 25 2002 12:09 AM    Automatic
192.168.0.13        0100.5079.6668.02      Mar 25 2002 12:11 AM    Automatic
```

Ubuntu-2 pide un ip al servidor DHCP


```
127.0.0.1:2004 (Ubuntu-2) - Network error: Connection refused! - (inactive) - [Restart in 1s]
Press '?' to get help.

Executing the startup file


PC1> ip dhcp
DDORA IP 192.168.0.13/24 GW 192.168.0.1

PC1> ping 192.168.0.11
84 bytes from 192.168.0.11 icmp_seq=1 ttl=64 time=1.954 ms
84 bytes from 192.168.0.11 icmp_seq=2 ttl=64 time=0.000 ms
84 bytes from 192.168.0.11 icmp_seq=3 ttl=64 time=0.000 ms
84 bytes from 192.168.0.11 icmp_seq=4 ttl=64 time=0.000 ms
84 bytes from 192.168.0.11 icmp_seq=5 ttl=64 time=0.000 ms

PC1> ping 192.168.0.1
84 bytes from 192.168.0.1 icmp_seq=1 ttl=255 time=17.578 ms
84 bytes from 192.168.0.1 icmp_seq=2 ttl=255 time=15.625 ms
84 bytes from 192.168.0.1 icmp_seq=3 ttl=255 time=15.625 ms
84 bytes from 192.168.0.1 icmp_seq=4 ttl=255 time=15.625 ms
84 bytes from 192.168.0.1 icmp_seq=5 ttl=255 time=15.625 ms

PC1>
```

Ubuntu-3 pide un ip al servidor DHCP


```
127.0.0.1:2003 (Ubuntu-3) - Network error: Connection refused! - (inactive) - [Restart in 1s]
Press '?' to get help.

Executing the startup file

Hostname is too long. (Maximum 6 characters)

VPCS> ip dhcp
DDORA IP 192.168.0.11/24 GW 192.168.0.1

VPCS> pin 192.168.0.13
84 bytes from 192.168.0.13 icmp_seq=1 ttl=64 time=0.000 ms
84 bytes from 192.168.0.13 icmp_seq=2 ttl=64 time=0.000 ms
84 bytes from 192.168.0.13 icmp_seq=3 ttl=64 time=0.000 ms
84 bytes from 192.168.0.13 icmp_seq=4 ttl=64 time=0.000 ms
84 bytes from 192.168.0.13 icmp_seq=5 ttl=64 time=0.000 ms

VPCS> ping 192.168.0.1
84 bytes from 192.168.0.1 icmp_seq=1 ttl=255 time=15.625 ms
84 bytes from 192.168.0.1 icmp_seq=2 ttl=255 time=15.625 ms
84 bytes from 192.168.0.1 icmp_seq=3 ttl=255 time=15.625 ms
84 bytes from 192.168.0.1 icmp_seq=4 ttl=255 time=6.836 ms
84 bytes from 192.168.0.1 icmp_seq=5 ttl=255 time=15.625 ms
```