

# Lab 8.1.4.4 - Troubleshooting DHCPv4

Part 1: Build the Network and Configure Basic Device Settings

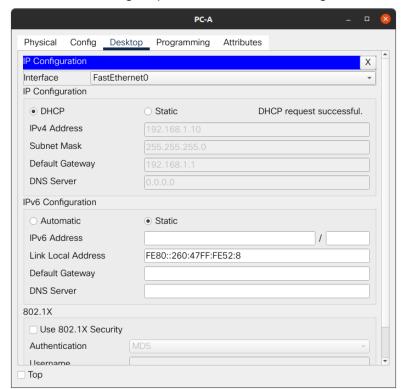
#### Step 4: Verify network connectivity between the routers

Fire Last Status	Source	Destination	Туре	Color	Time(sec)	Periodic	Num	Edit	Delete
<ul> <li>Successful</li> </ul>	R1	R2	IC		0.000	N	0	(e	(delete)
<ul> <li>Successful</li> </ul>	R1	ISP	IC		0.000	N	1	(e	(delete)
<ul> <li>Successful</li> </ul>	R2	ISP	IC		0.000	Ν	2	(e	(delete)

Part 2: Troubleshoot DHCPv4 Issues

#### Step 2: Troubleshoot DHCP issues on routers R1, R2, and R3.

- R2 Badly configured excluded address 192.168.11.1 192.168.11.9, should be 192.168.1.1 192.168.1.9
- R2 Badly configured default-router 192.168.11.1, should be 192.168.0.1
- R1 Badly configured helper-address 192.168.0.253, should be 192.168.0.254 to be R2 interface
- R1 Missing helper address on interface g0/0







## Reflection

### What are the benefits of using DHCP?

Every device on a TCP/IP-based network must have a unique unicast IP address to access the network and its resources. With DHCP, assigning ip for new hosts is easy, is automated and managed centrally.