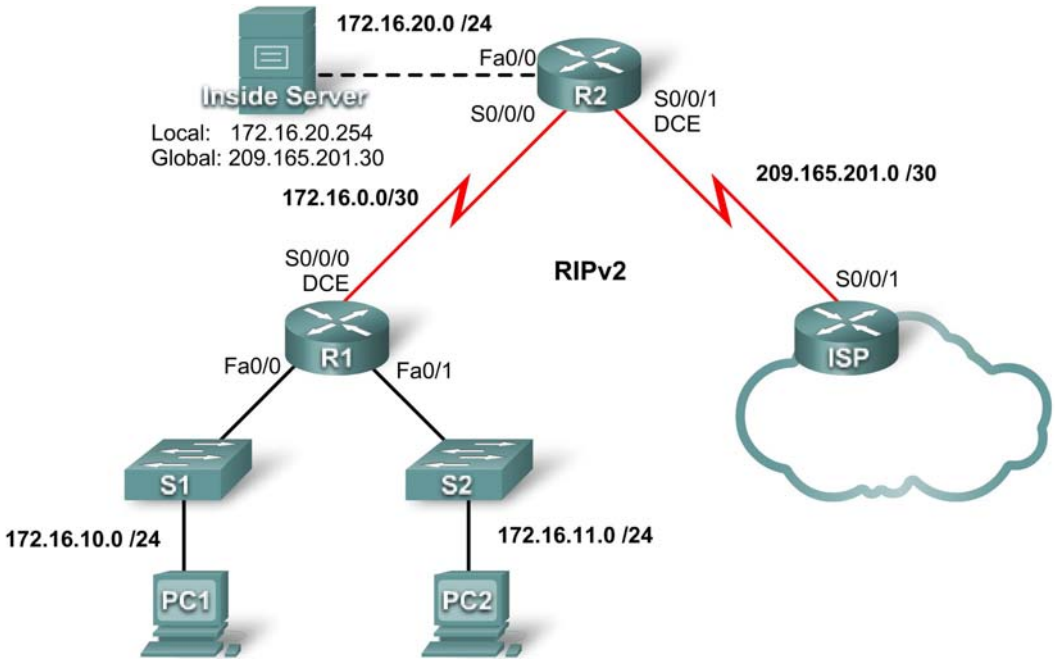
PT Activity 7.4.3: Troubleshooting DHCP and NAT

Topology Diagram



Addressing Table

Device	Interface	IP Address	Subnet Mask
R1	**S0/0/0**	172.16.0.1	255.255.255.252
	Fa0/0	172.16.10.1	255.255.255.0
	Fa0/1	172.16.11.1	255.255.255.0
R2	**S0/0/0**	172.16.0.2	255.255.255.252
	S0/0/1	209.165.201.1	255.255.255.252
	Fa0/0	172.16.20.1	255.255.255.0
ISP	**S0/0/1**	209.165.201.2	255.255.255.252

Learning Objectives

Upon completion of this lab, you will be able to:

- Find and correct network errors.
- Document the corrected network.

Scenario

The routers at your company were configured by an inexperienced network engineer. Several errors in the configuration have resulted in connectivity issues. Your boss has asked you to troubleshoot and correct the configuration errors and document your work. Using your knowledge of DHCP, NAT, and standard testing methods, find and correct the errors. Make sure all clients have full connectivity. The user EXEC password is **cisco,** and the privileged EXEC password is **class**.

Task 1: Find and Correct Network Errors

Step 1. Troubleshoot and correct all errors.

Use troubleshooting commands to discover errors and then correct them. When all errors are corrected, you should be able to ping from PC1 and PC2 to ISP. ISP should be able to ping the inside web server at its public IP address.

Step 2. Check results.

After correcting all errors, your completion percentage should be 100%.

Task 2: Document the Corrected Network

On each router, issue the **show run** command and capture the configurations.

