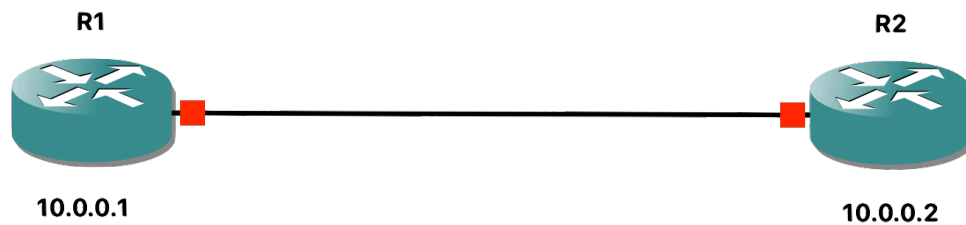# Lab 1: Analyzing Protocols with Wireshark

Deadline: Sep. 23, 2020, 16:00

1. Construct the following network topology in GNS3. Simulate the network and capture ICMP packets.

2. Open handshake.pcapng on Wireshark. Find TCP 3-way handshake and 4-way handshake. (in which frame?)

3. Open PacketCapture.pcapng on Wireshark, find frame 423. What are the source MAC address, destination MAC address, and IP address?

4. Follow question 3. By given the TCP header, what are the source port, destination port, and flags. Highlight each part in the hex data?