# Lab 9 Practice

# Task 1

a. Crossover cable

b. Straight-through cable

c. Straight-through cable

# Task 3

a. Switch to Router: Straight-through

Router to Router: Crossover

Graphical user interface, text

Description automatically generated

Graphical user interface, text

Description automatically generated

R1 Configuration

# Task 4

Graphical user interface, text, application, email

Description automatically generated

R2 Configuration

# Task 5

A screenshot of a computer

Description automatically generated

WS1 able to ping gateway 192.168.1.1

Graphical user interface, text

Description automatically generated

WS2 able to ping gateway 192.168.3.1

Graphical user interface, text

Description automatically generated

R1 able to ping 192.168.2.2

Graphical user interface, text, application

Description automatically generated

R2 able to ping 192.168.2.1

A screenshot of a computer

Description automatically generated

WS1 using telnet to connect to R1

# Task 7

a. What is missing from the network that is preventing communication between these devices?

There is no ip route for hosts on different routers to be able to communicate back and forth. R1 does not know how to return packet to host on R2, which is the same as R2 which does not know how to return packet to host on R1.

# Lab 9 Exercise

# Topology diagram

Diagram

Description automatically generated with medium confidence

# Addressing Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device | Interface | IP Address | Subnet Mask | Default Gateway |
| Router 1 | Fa0/0 | 192.168.1.129 | 255.255.255.224/27 | N/A |
| S0/0/0 | 192.168.1.193 | 255.255.255.252/30 | N/A |
| Router 2 | Fa0/0 | 192.168.1.161 | 255.255.255.224/27 | N/A |
| S0/0/0 | 192.168.1.194 | 255.255.255.252/30 | N/A |
| WS1 | NIC | 192.168.1.130 | 255.255.255.224/27 | 192.168.1.129 |
| WS2 | NIC | 192.168.1.162 | 255.255.255.224/27 | 192.168.1.161 |
| WS3 | NIC | 192.168.1.163 | 255.255.255.224/27 | 192.168.1.161 |

# Packet Tracer

Chart, line chart

Description automatically generated

IP route on Router 1:

Text, letter

Description automatically generated

Interface on Router 1:

Table

Description automatically generated

IP route on Router 2:

Text, letter

Description automatically generated

Interface on Router 2:

Table

Description automatically generated

# Reflection

All devices are pingable with their corresponding IP

WS1 pinging serial interface on Router 2:

Graphical user interface, text

Description automatically generated

WS2 pinging serial interface on Router 1:

Graphical user interface, text

Description automatically generated