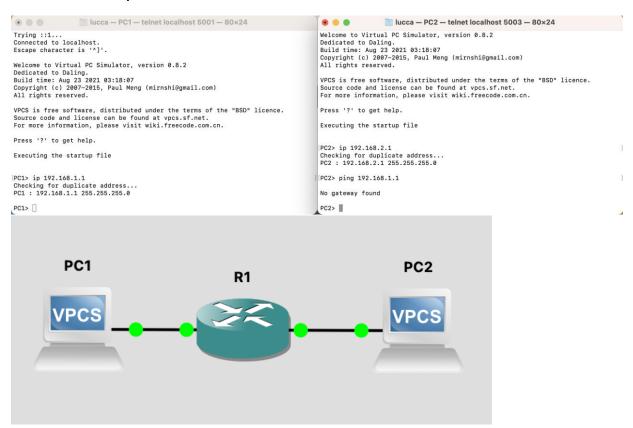
# F29DC Lab 2

## Question 1:

Configure the PCs with IP addresses 192.168.1.1 and 192.168.2.1. Is PC2 reachable from PC1?

No, it is not. The base subnet mask is /24, which means the network addresses (192.168.1 & 192.168.2) are different. Despite being connected by a router, they are on a different network. This router has not been configured to let IP addresses of separate networks communicate as of now.

### **Proof of Completion:**

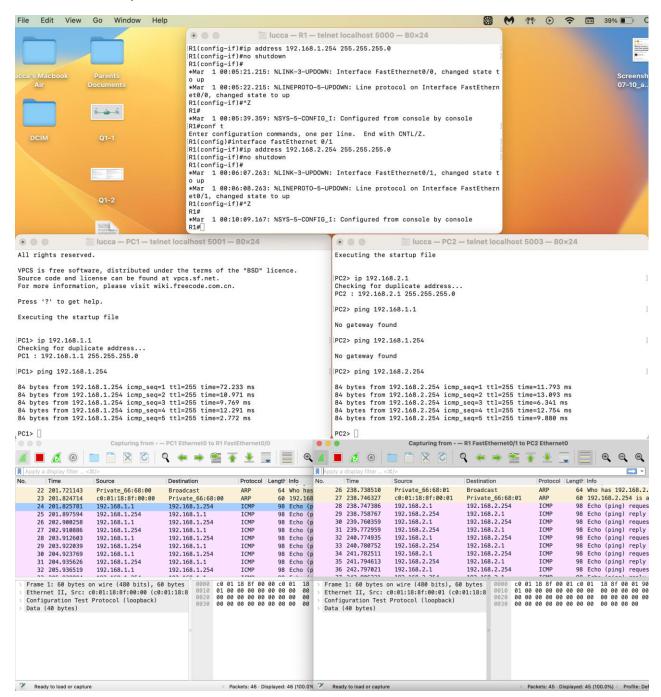


# Question 2:

Ping FE0/0 from PC1 and FE0/1 from PC2. Does it work? Why?

It does work because FE0/0 is now on the same Network as PC1 (192.168.1) and FE0/1 is now on the same Network as PC2 (192.168.2).

### **Proof of Completion:**

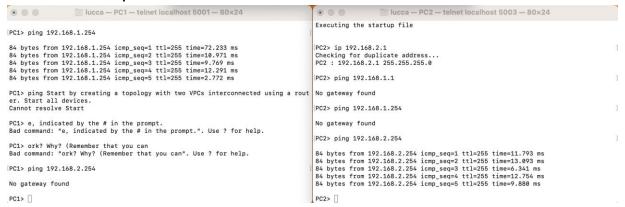


## Question 3:

#### Ping FE0/1 from PC1. Does it work? Why?

It does not. Although PC1 is able to ping FE0/0 as a device on the network, FE0/0 has not been set as a gateway for PC1 yet, so it cannot communicate with other networks, even if they are on the same router.

### **Proof of Completion:**



## Question 4:

#### Ping PC2 from PC1. Does it work? Why?

It works somewhat. You can ping it, but it will not give a response, because although there is a gateway set from PC1 to PC2, there is not a gateway set from PC2 to PC1. It needs to be set both ways for it to work properly. As shown in the Wireshark photo below, PC2 tries using ICMP to respond but when it's not able to send the message back to PC1, it resorts to trying to broadcast the info for PC1 to see using the ARP protocol to no avail.

### **Proof of Completion:**

