# CN LAB EXAM

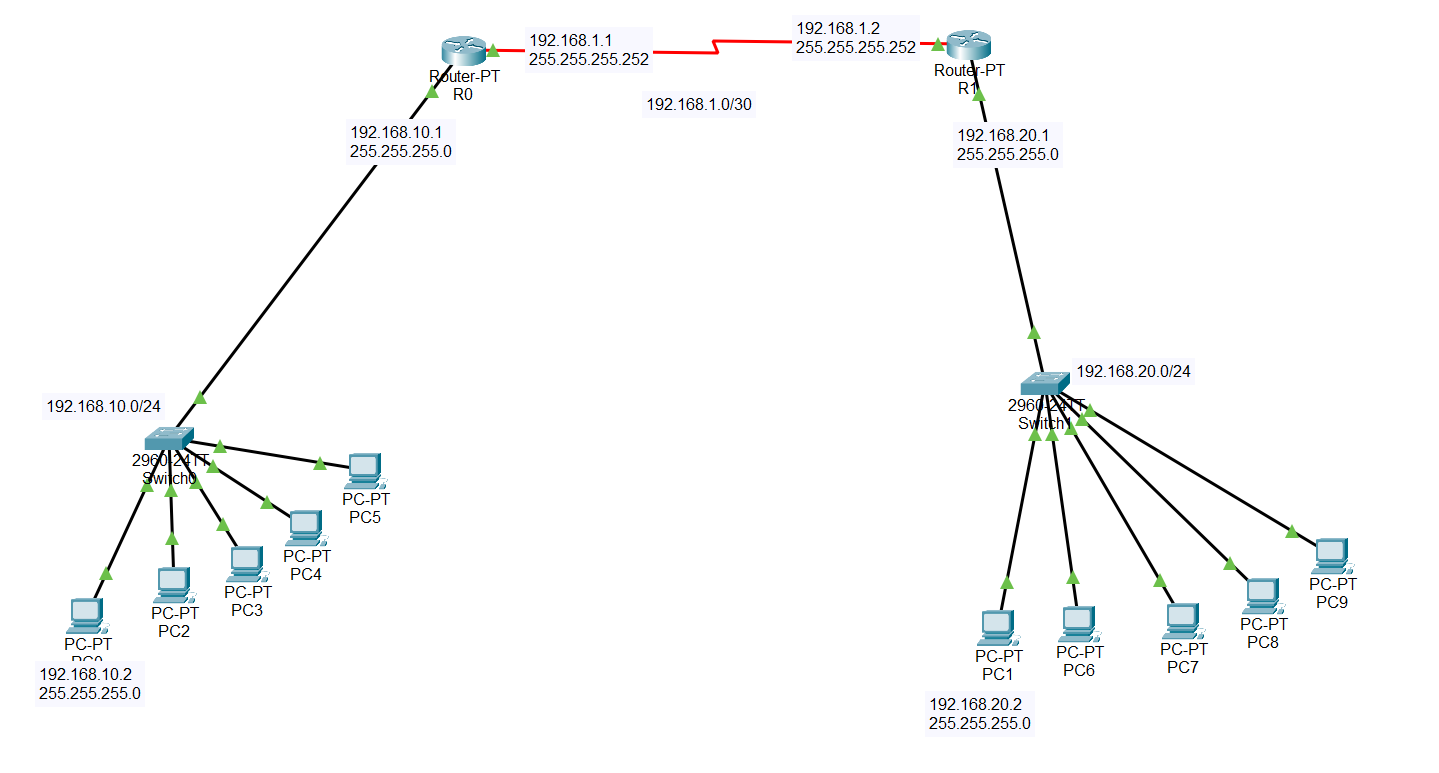
## Objective

* To configure static and default routing on routers to enable communication between different network segments.
* Using cisco packet tracer, to create a network with multiple routers and PCs, and configure routing to ensure proper data transfer.

## Steps taken to set up the network

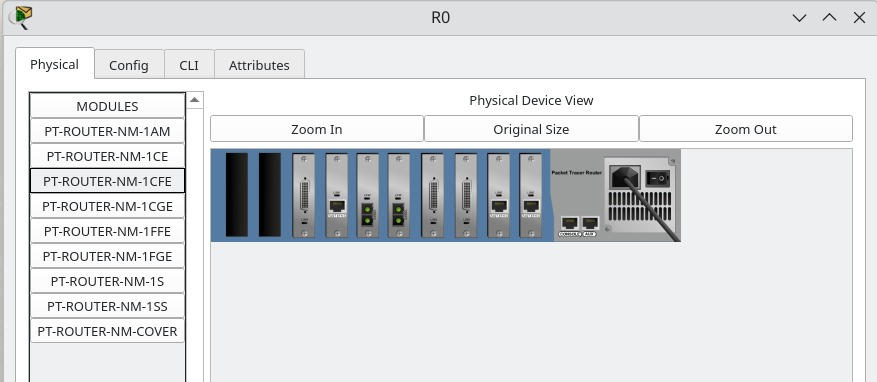
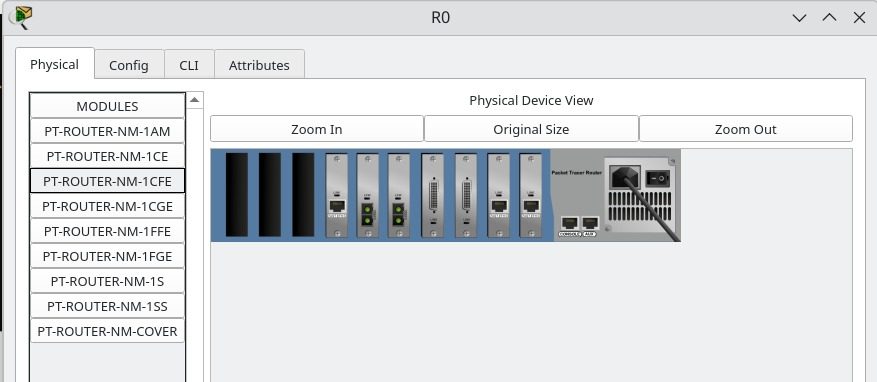
### Step 1:

Select and drag required network devices (2 Router-PTs, 2 2960-24TT Switches) and end devices (10 PC-PTs).



### Step 2:

Open Routers and add PT-ROUTER-NM-1CFE and PT-ROUTER-NM-1S Modules.

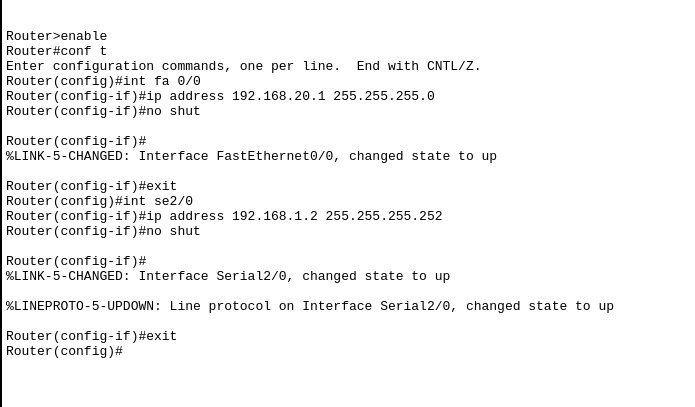


### Step 3:

Connect the cables (Straight through cables for different devices) and Serial DCE (between routers).

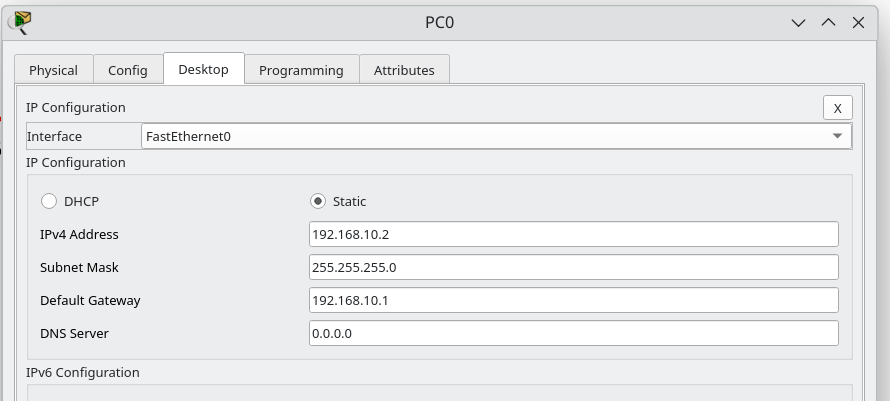
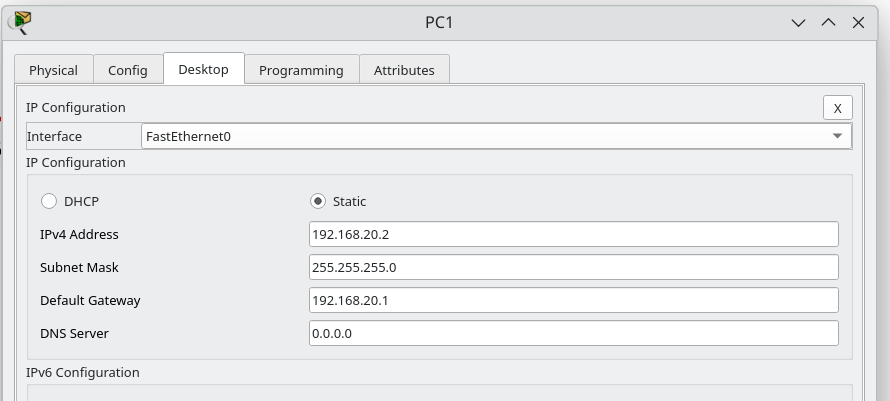
### Step 4:

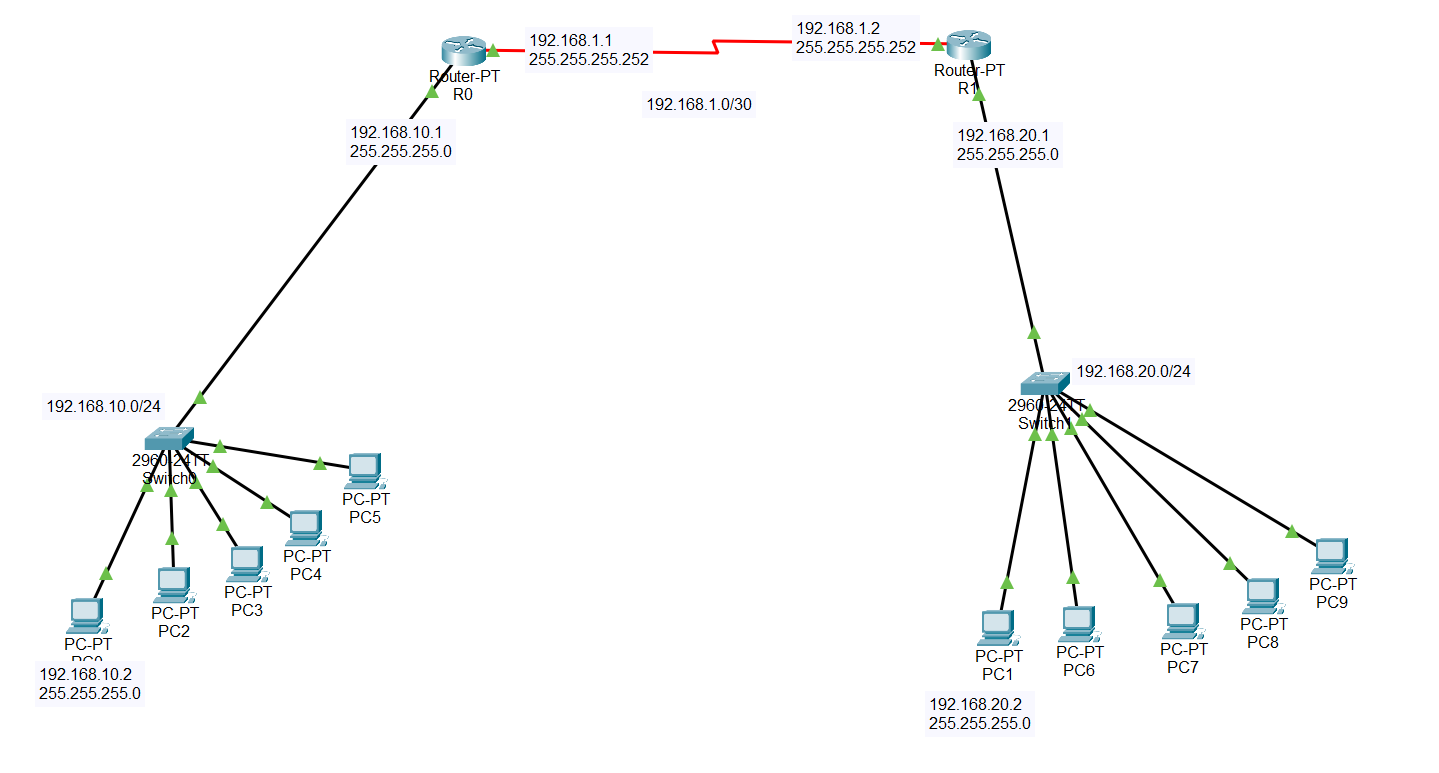
Open the routers CLI and type in the following commands (R0)

Similarly do it for R1.

### Step 5:

Configure IP addresses for PC1 and PC2



### Step 6:

Configure Static Routing and Default Routing for Routers.

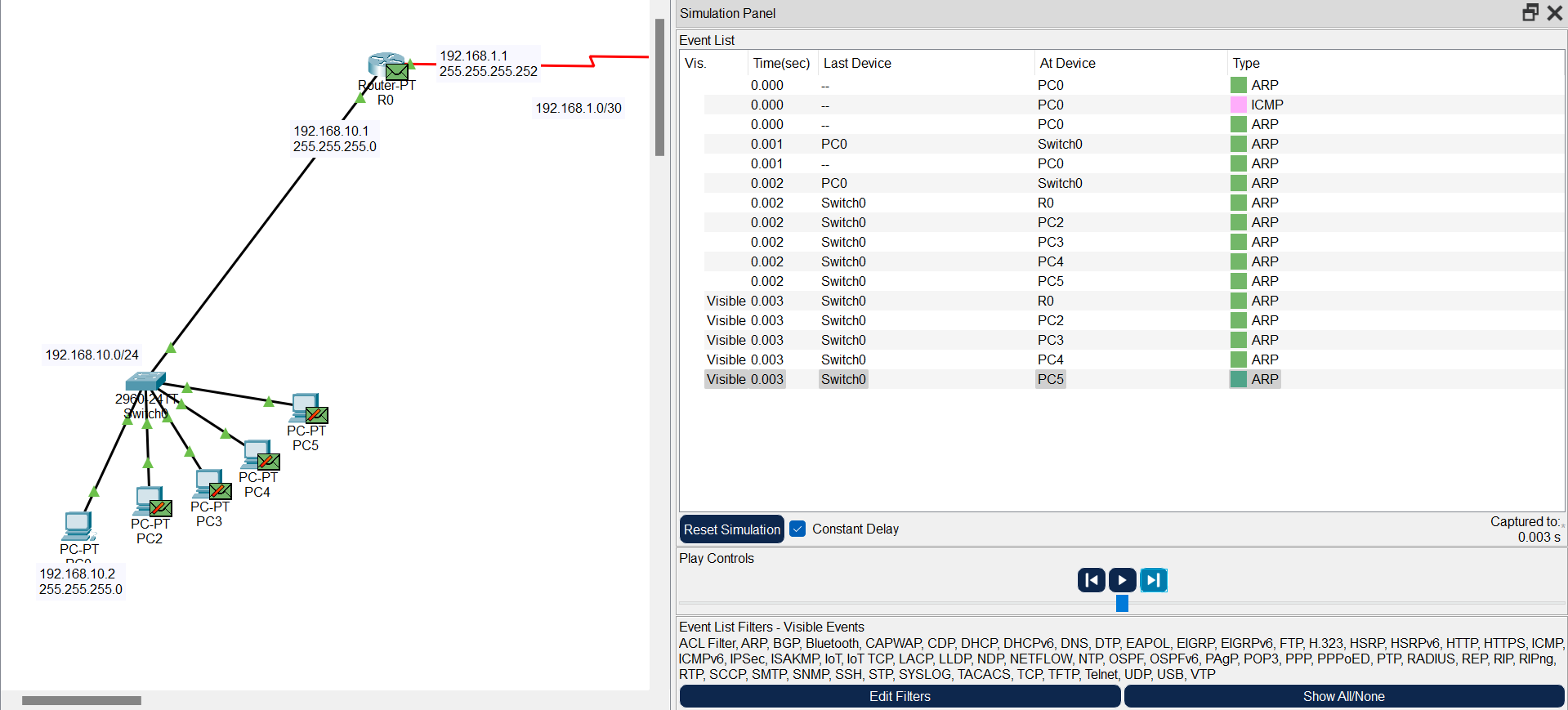


This is for R0, Implement the similar for R1 (default and static pointing to R0).

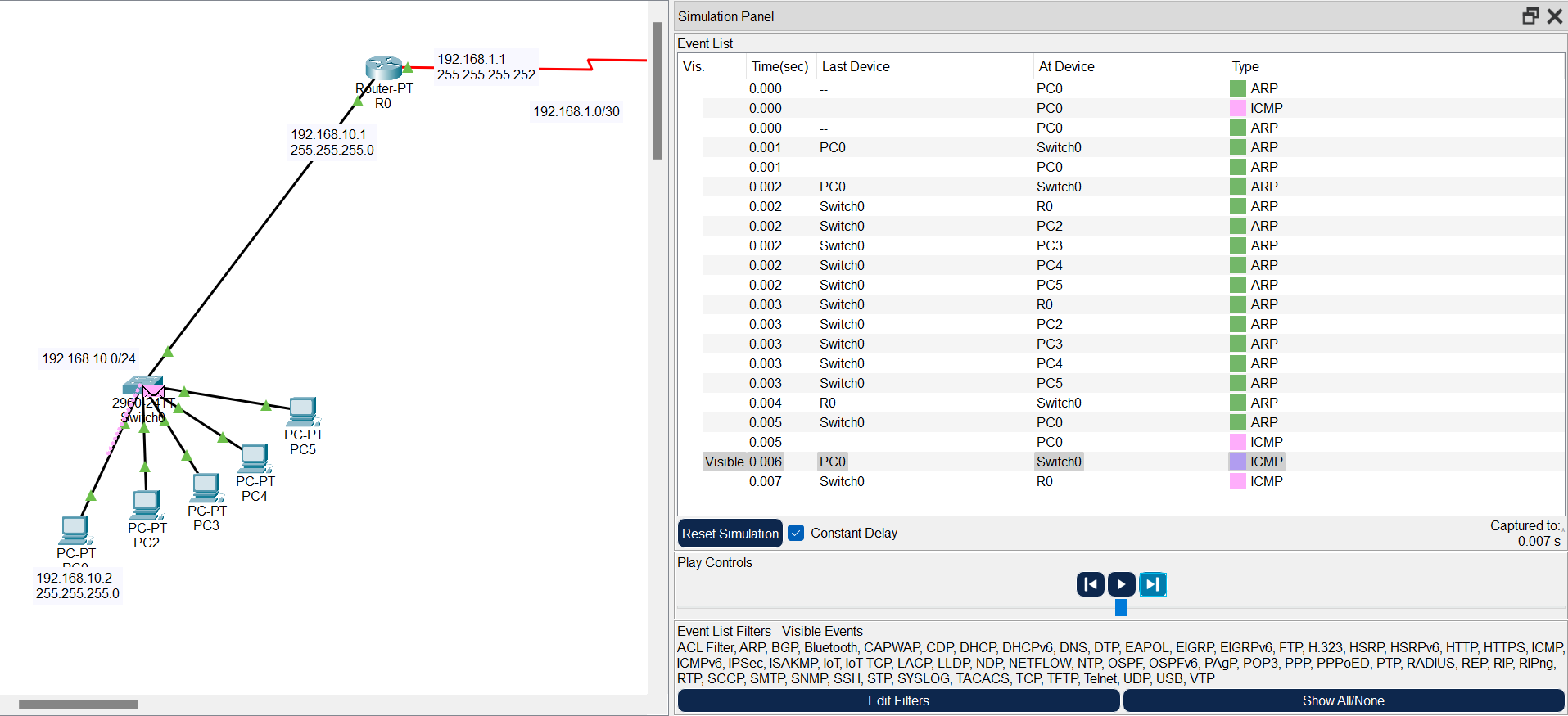
## Simulation:

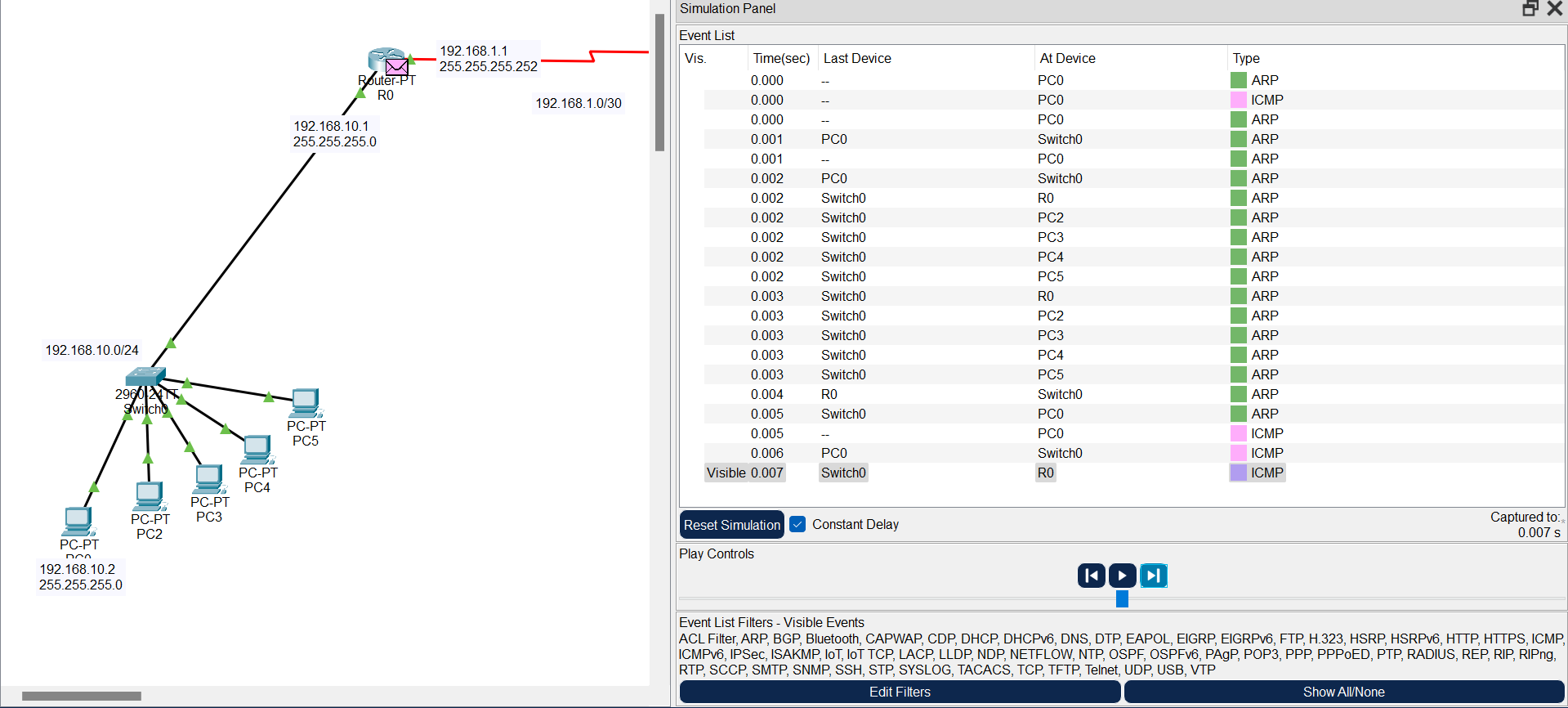
Pinging PC1 from PC0

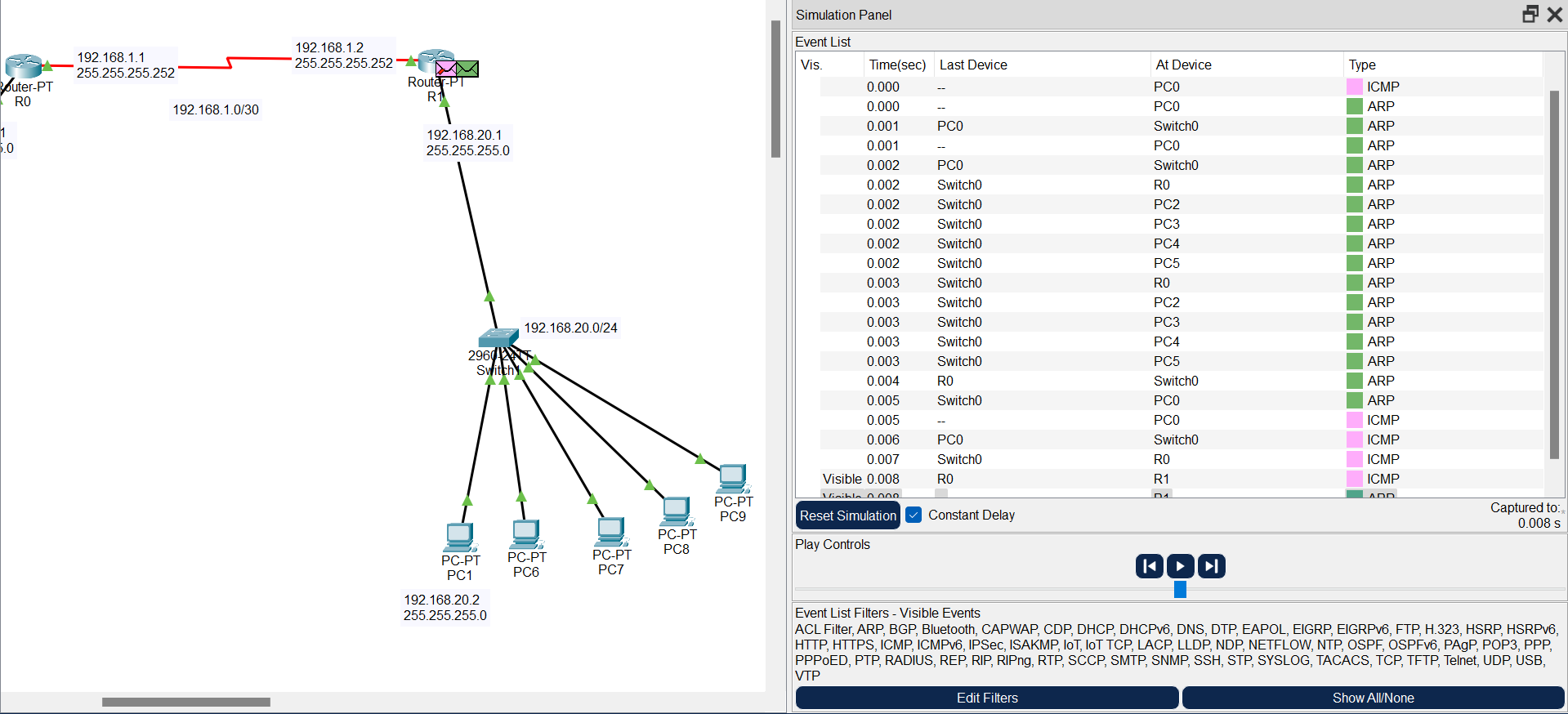
ARP Requests:



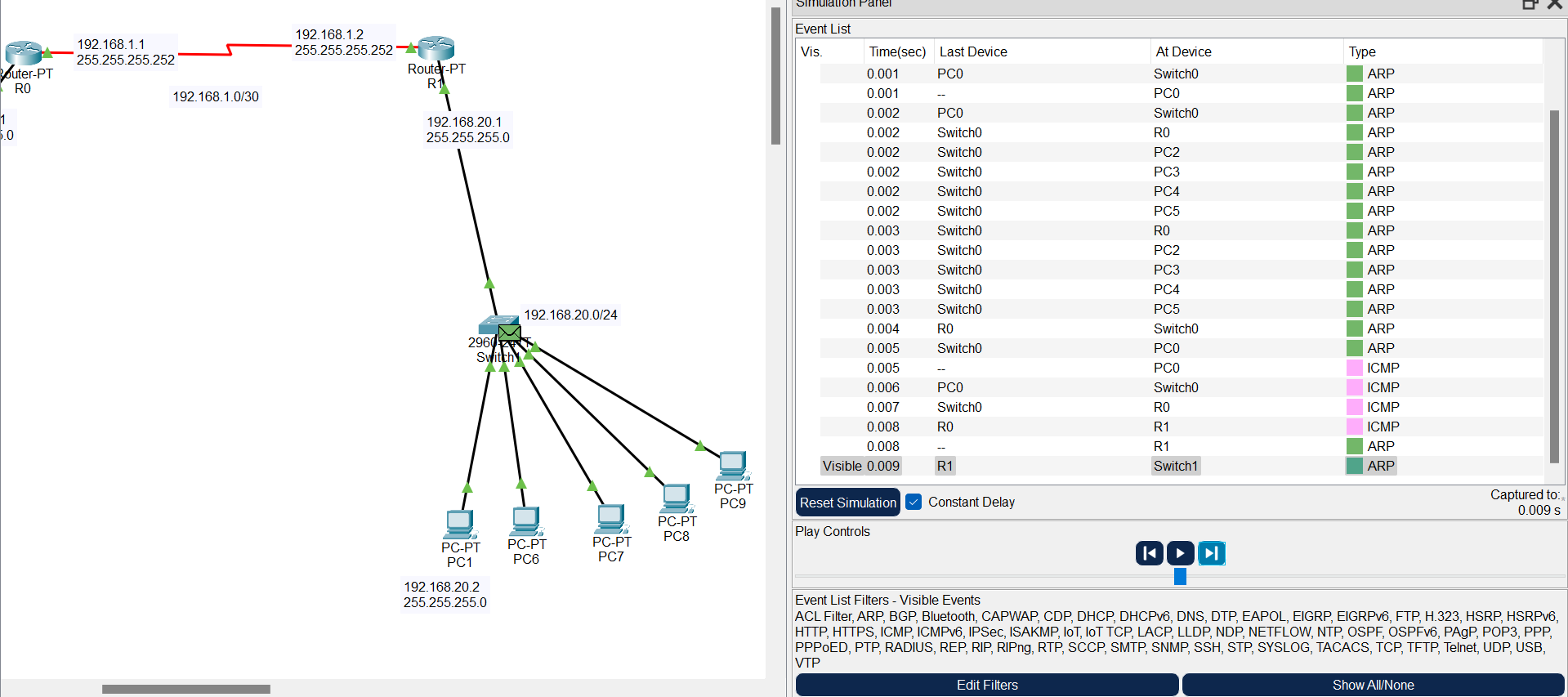
ICMP ECHO REQUEST:

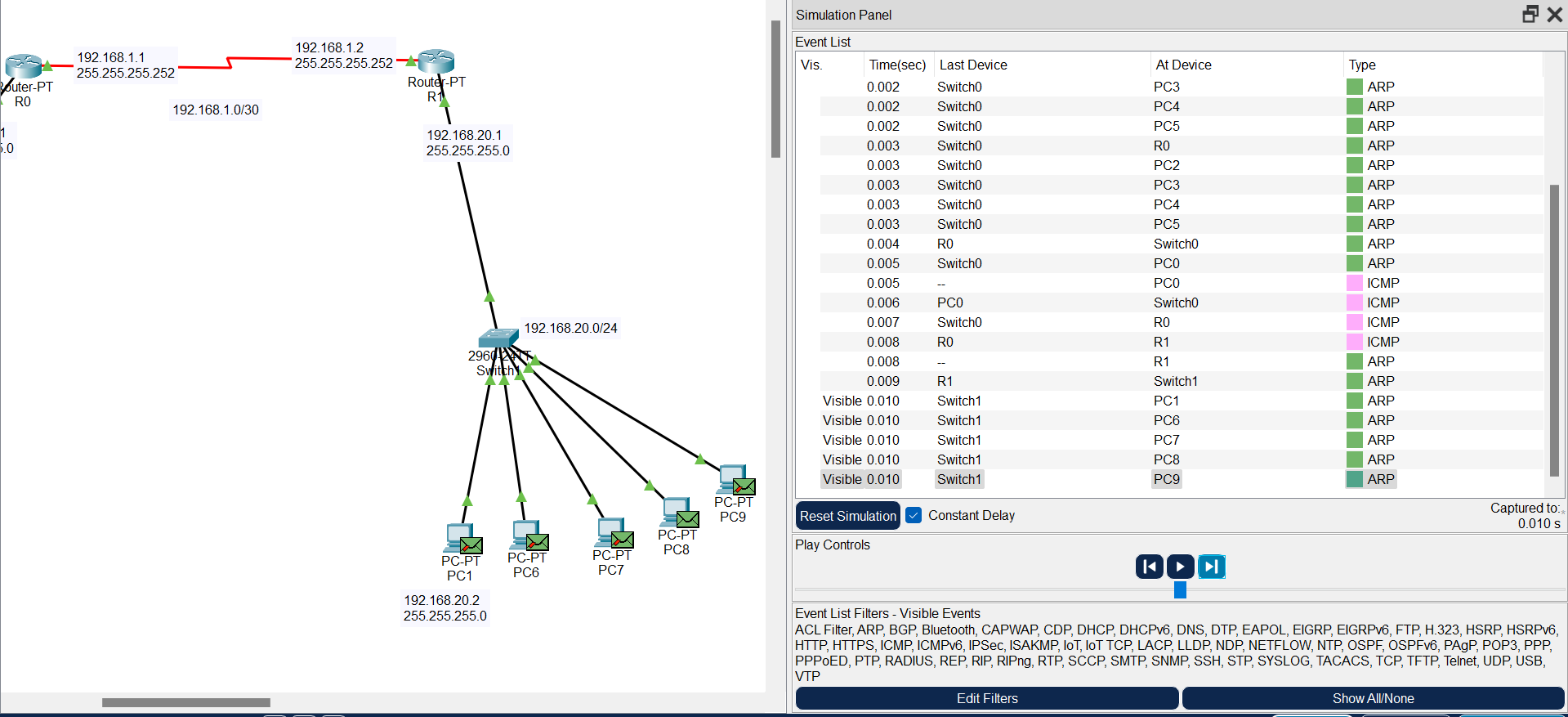




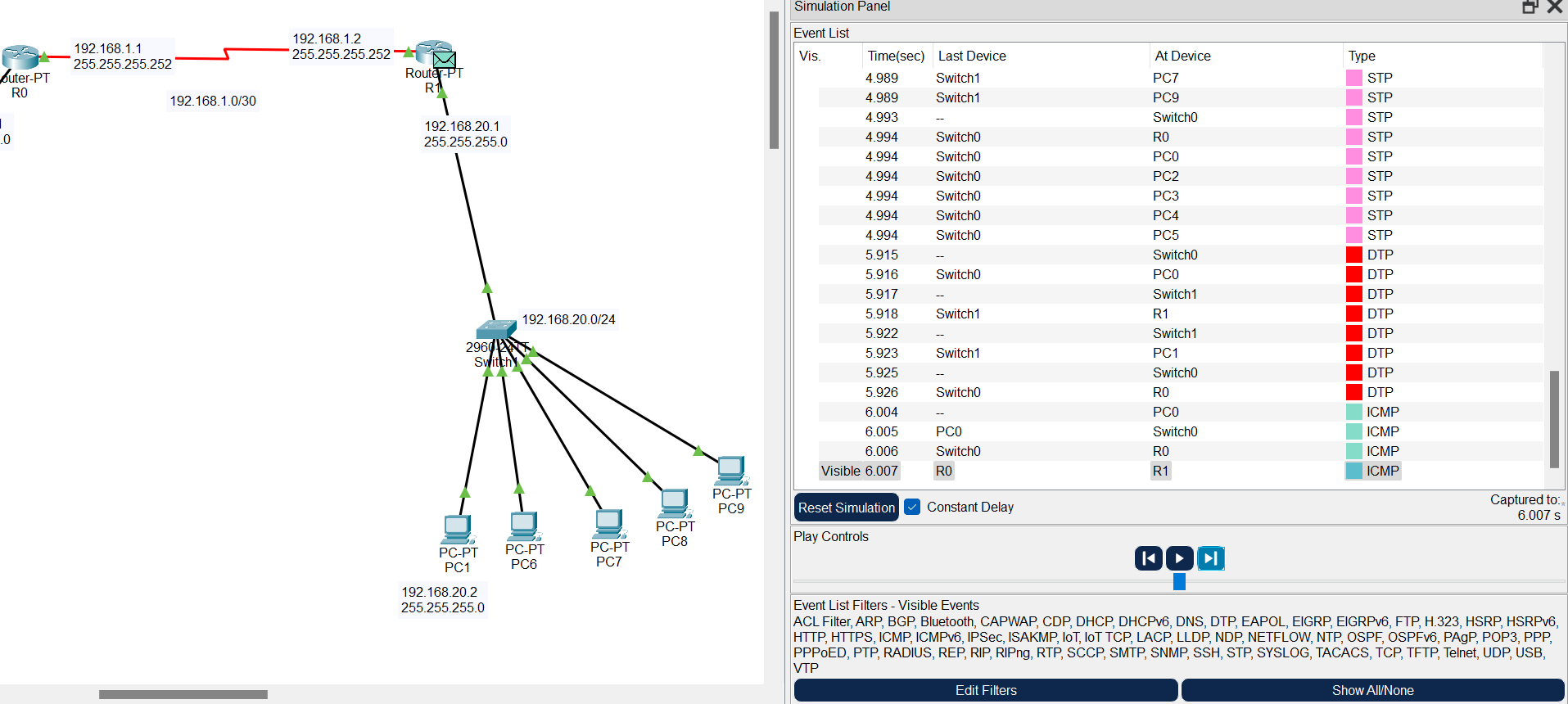


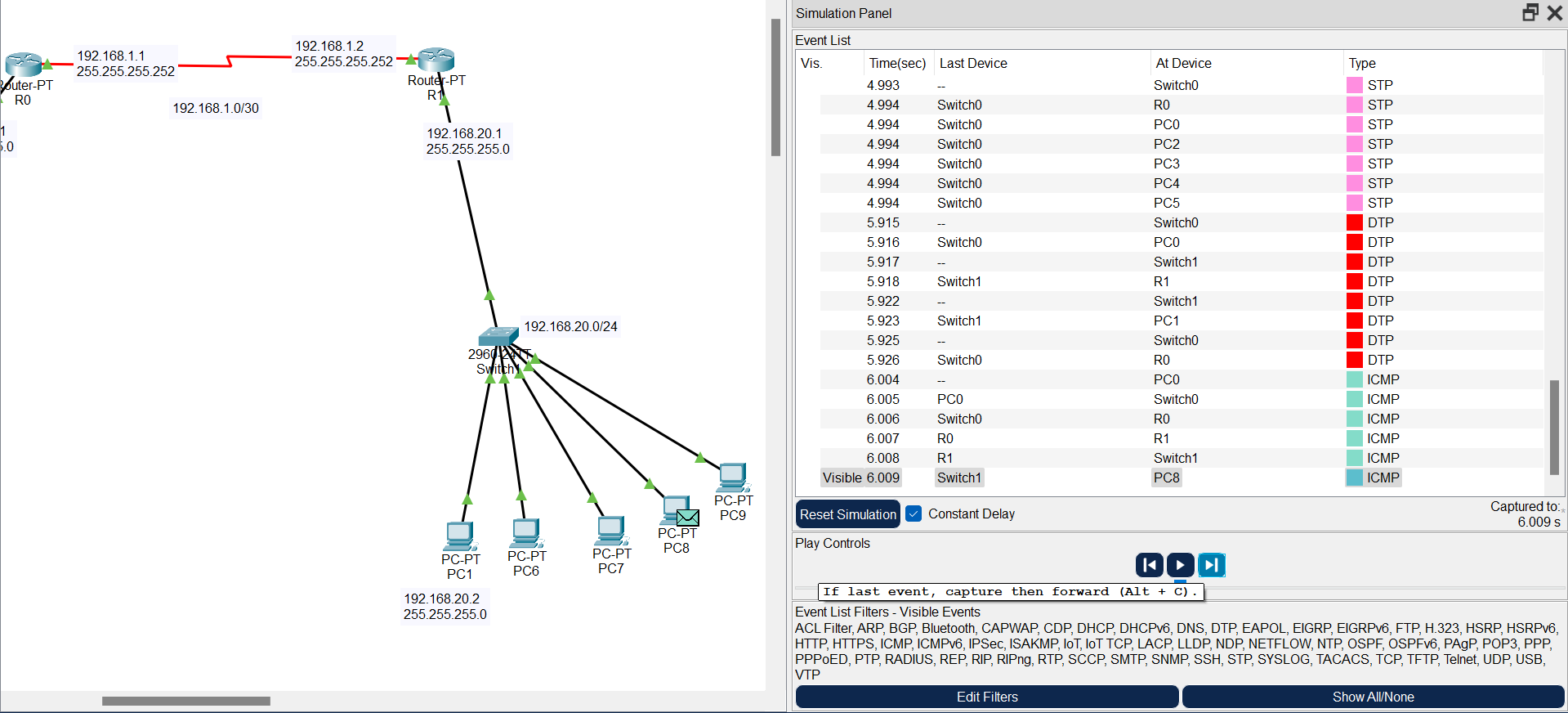
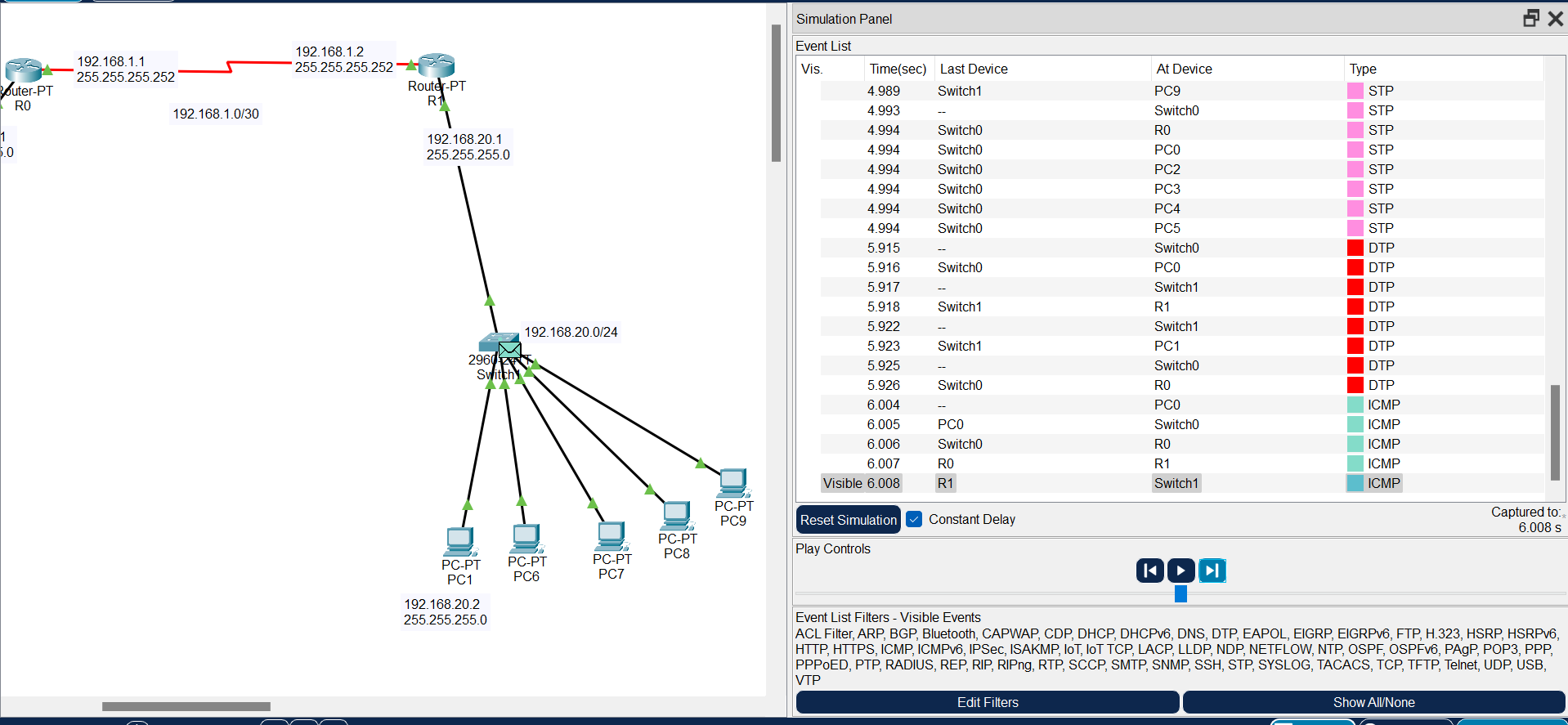
ARP Requests:





ICMP Request:





ICMP ECHO REPLY:

