

## **Experiment 5**

**Aim:** Implement hybrid topology through cisco packet tracer network simulator

**Theory:**

**Hybrid Topology:**

Firstly before going to topic, we saw that a topology may be a connection of varied links and nodes, communicating with one another for transfer of knowledge. During this process sort of topology we combine two

or more different topologies to make a resultant topology which has good points (as well as weaknesses) of all constituent basic topologies instead of having characteristics of only one specific topology. This mix of topologies is completed consistent with the wants of organization. Eg for instance if in a office in one of department ring topology is employed and in another star topology is employed, connecting these topologies will end in Hybrid Topology (ring topology and star topology).

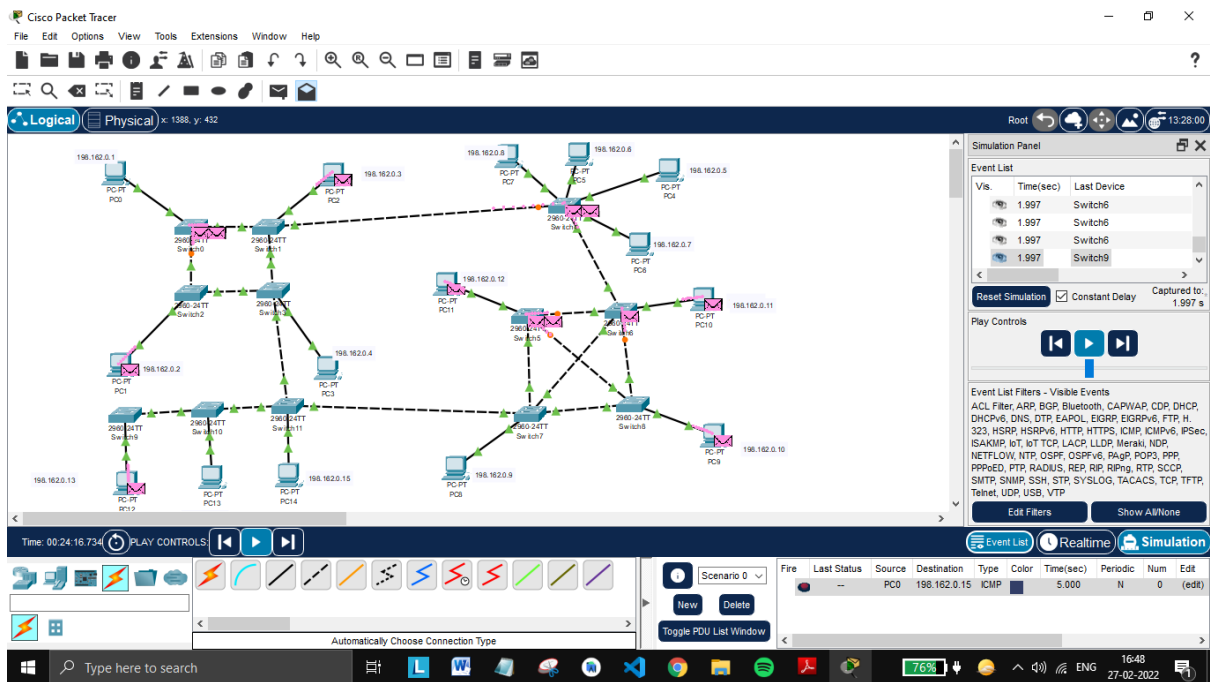
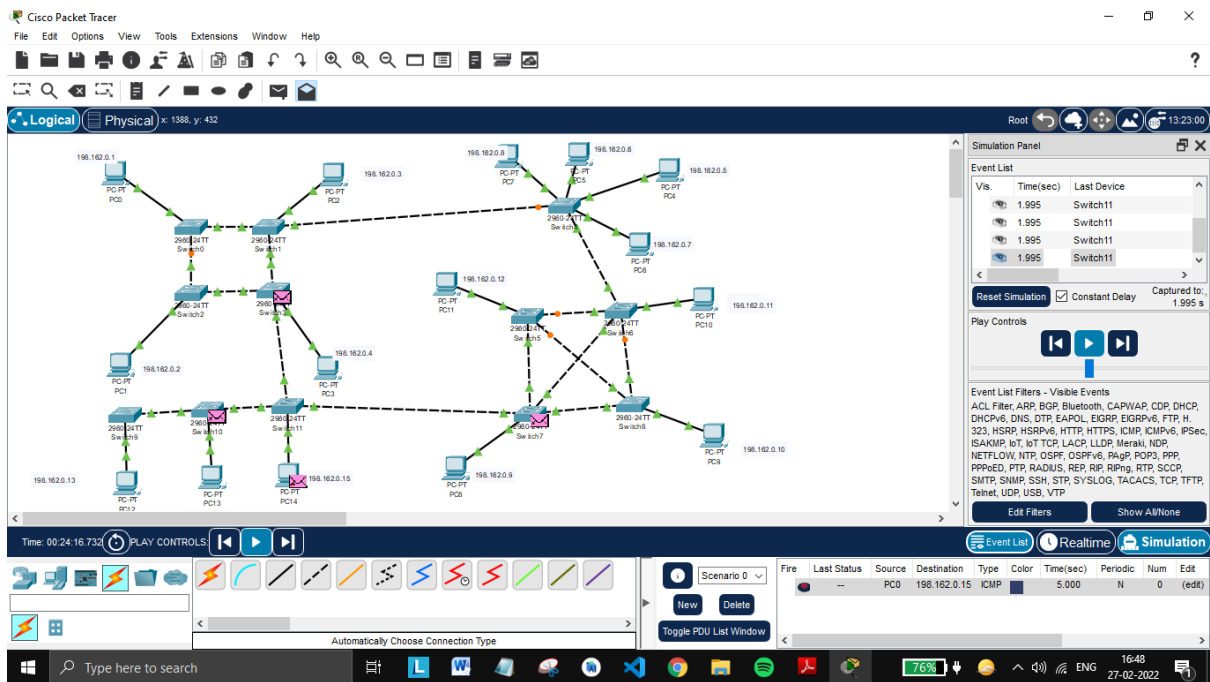
### **Advantages of Hybrid Topology :**

- This type of topology combines the benefits of different types of topologies in one topology.
- Can be modified as per requirement.
- It is extremely flexible.
- It is very reliable.
- It is easily scalable as Hybrid networks are built in a fashion which enables for easy integration of new hardware components.

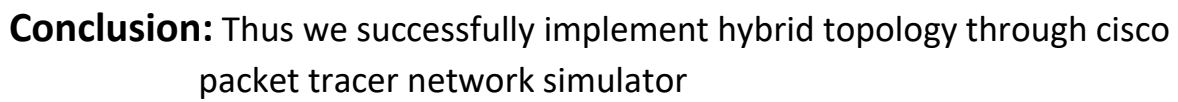
### **Disadvantages of Hybrid Topology :**

- It is a type of network expensive.
- Design of a hybrid network is very complex.
- There is change hardware in order to connect topology with another topology.

### **OUTPUT:**



Using Cmppt:



**Conclusion:** Thus we successfully implement hybrid topology through cisco packet tracer network simulator