Jahangirnagar University

Department of Computer Science & Engineering



Course Code: CSE-402

Course Title: Computer Networking Laboratory

Submitted by:

Name: Md Shamim Imtiaz

Roll No: 47

Date of Submission: 5th September, 2019

Experiment No: 02

Experiment Name: Packet through router.

Introduction:

In this experiment we will configure routers in between some networks to connect to further network via routing table where network and hop will be mentioned. When sending a packet this routers will recognize which hop to jump to send a packet.

Description:

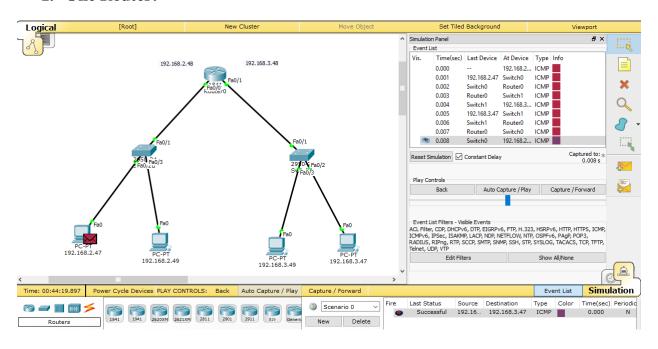
We used cisco packet tracer for simulation. Several computer devices are connected through the routers and different IP addresses were assigned to them. Then a packet is sent through them to check the characteristics of routers we created a hop table to access networks that are far from the routers to pass the packets.

Simulation:

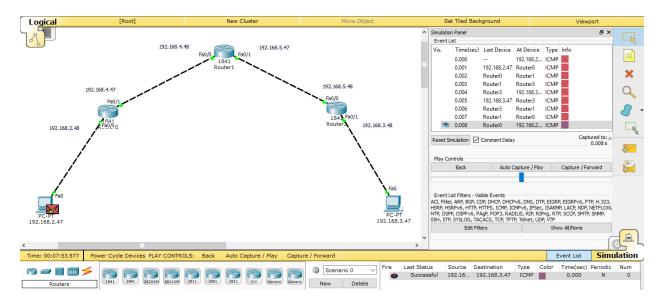
Router:

Routers are small electronic devices that join multiple computer networks together using either wired or wireless connections. In technical terms, a router is a Layer 3 network gate way device, meaning that it connects two or more networks and that the router operates at the network layer of the OSI model.

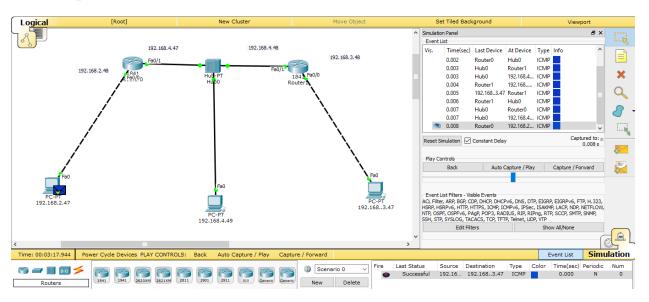
1. One Router:



2. Multiple Router:



3. Multiple Router and Hub:



Discussion:

We can see that the Routers sends the packet the required path mentioned in the rout table. People tend to get benefit from a router for through a packet to a different network. A router is better for connecting different network. After using router we can easily use hub, switch, PC for any other connection and for any other communication.