



**S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT &
RESEARCH, NAGPUR.**

Practical No. 7

Aim: Configure and implement BGP routing protocol using packet tracer simulator.

Name of Student:

Roll No.:

Semester/Year: V/III

Academic Session: 2025-26

Date of Performance: 11/08/2025

Date of Submission: 18/08/2025

AIM: Configure and implement BGP routing protocol using packet tracer simulator.

OBJECTIVE/EXPECTED LEARNING OUTCOME:

1. The configuration process of **BGP** between routers in different ASes
 2. Verifying and testing BGP routes in a lab environment.

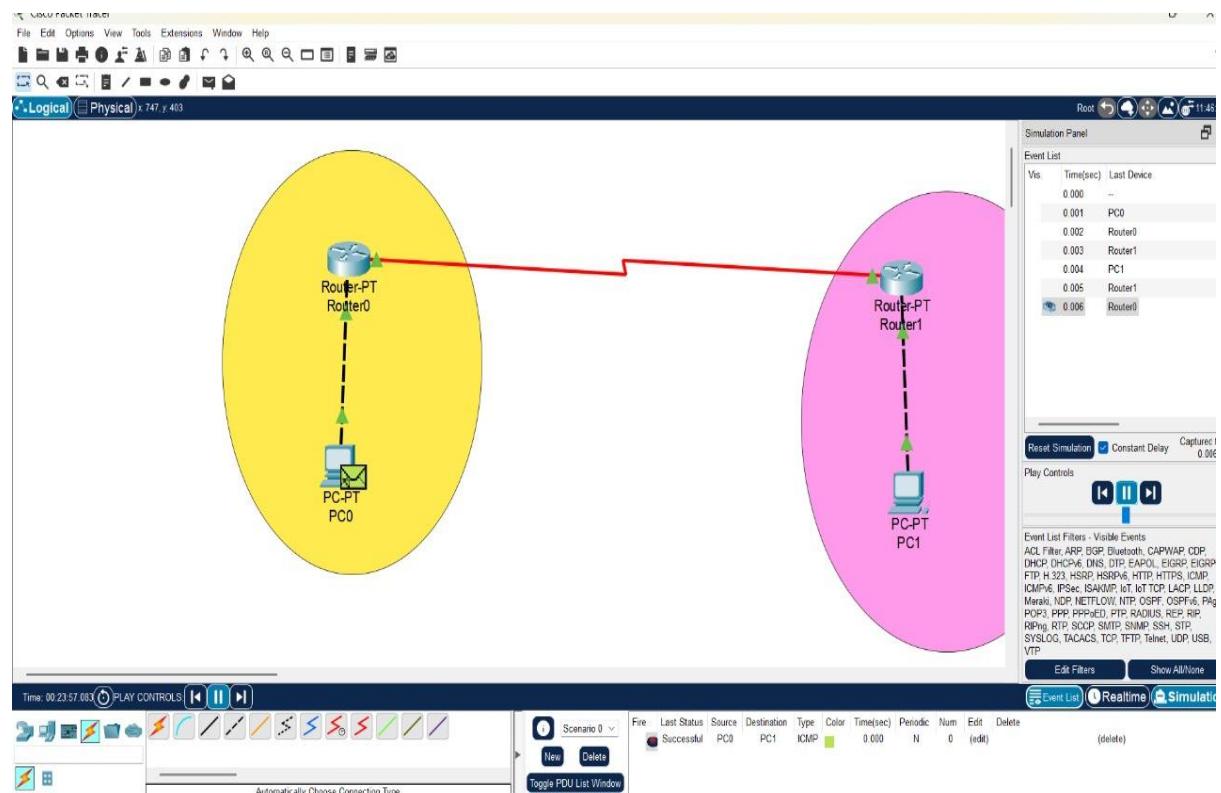
THEORY: Introduction to Routing.

Types of Routing Protocol

Purpose of BGP:

Types of BGP

Screenshot:



Conclusion:

Discussion Question

- 1) Write the difference between eBGP and iBGP?

- 2) Why is BGP often referred to as the "glue of the Internet"?

- 3) How do you establish an eBGP session between two routers in CiscoPacket Tracer?

- 4) What would happen if BGP failed on a global scale?

5) Which layer of the OSI model does BGP operate on?

6) Write the port number BGP use?

REFERENCES:

1. <https://github.com/gsahinpi/acm361/blob/master/Computer%20Networks%20>
2. <https://packetlife.net/library/protocols/bgp/>
3. [Border Gateway Protocol \(BGP\) - GeeksforGeeks](#)
4. [What is BGP and How Does Border Gateway Protocol Work? | TechTarget](#)