



**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

Department of Computer Science & Engineering, S.B.J.I.T.M.R, Nagpur.

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.

[illegible]

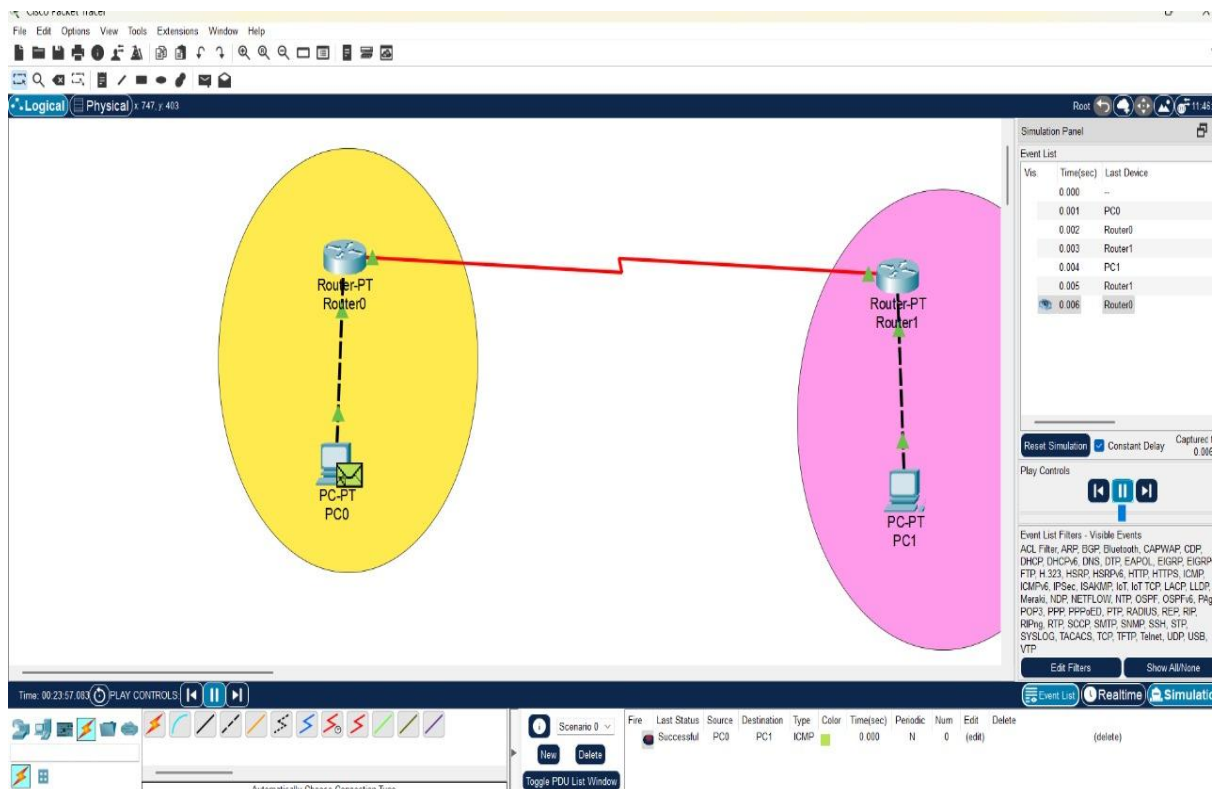
Types of Routing Protocol

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

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](#)