Day 11 - INTRODUCTION TO FIREWALLS

Goal	Status
Understand basic firewall concept	🛡️
Practice simple ACL configuration	🔥
See how firewalls control traffic	✅

What is a Firewall?

- A firewall controls incoming and outgoing network traffic.
- Works based on predefined security rules.

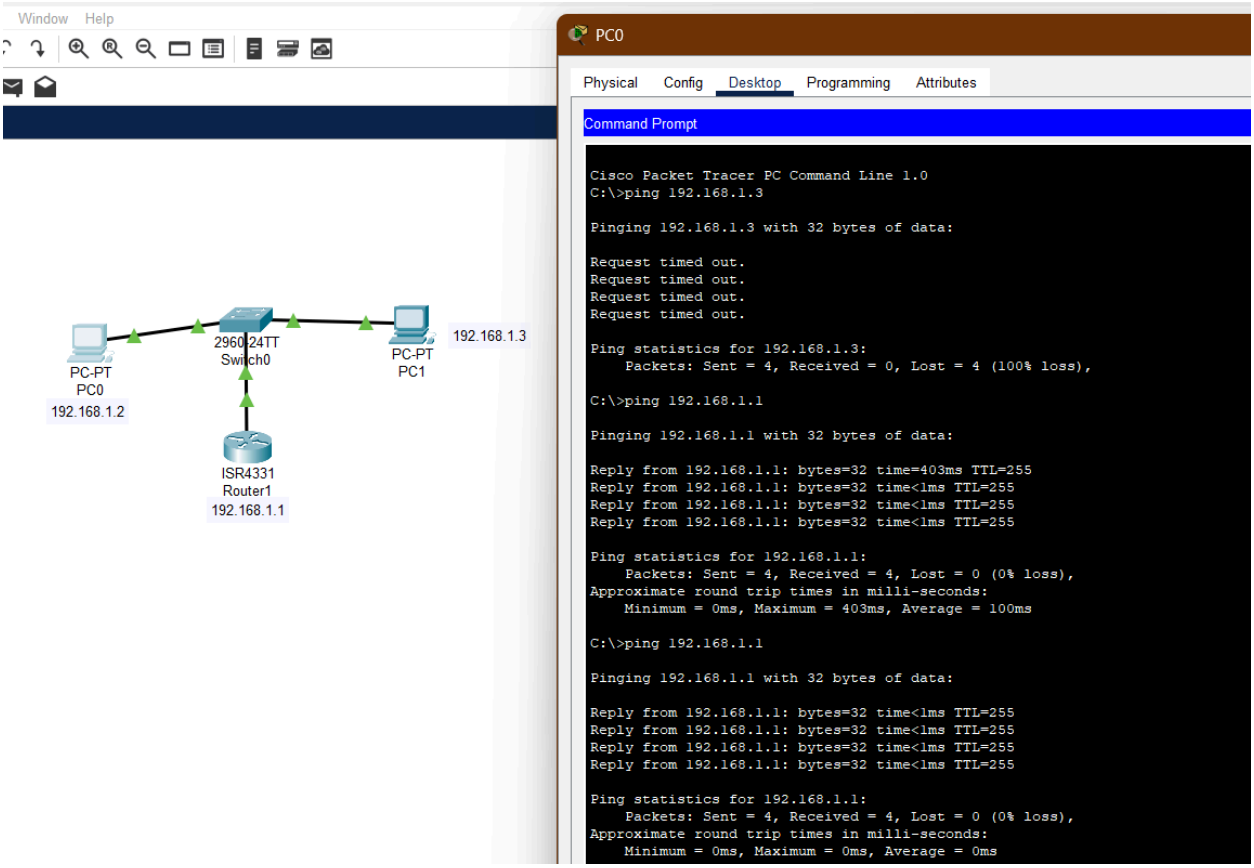
Types of Firewalls:

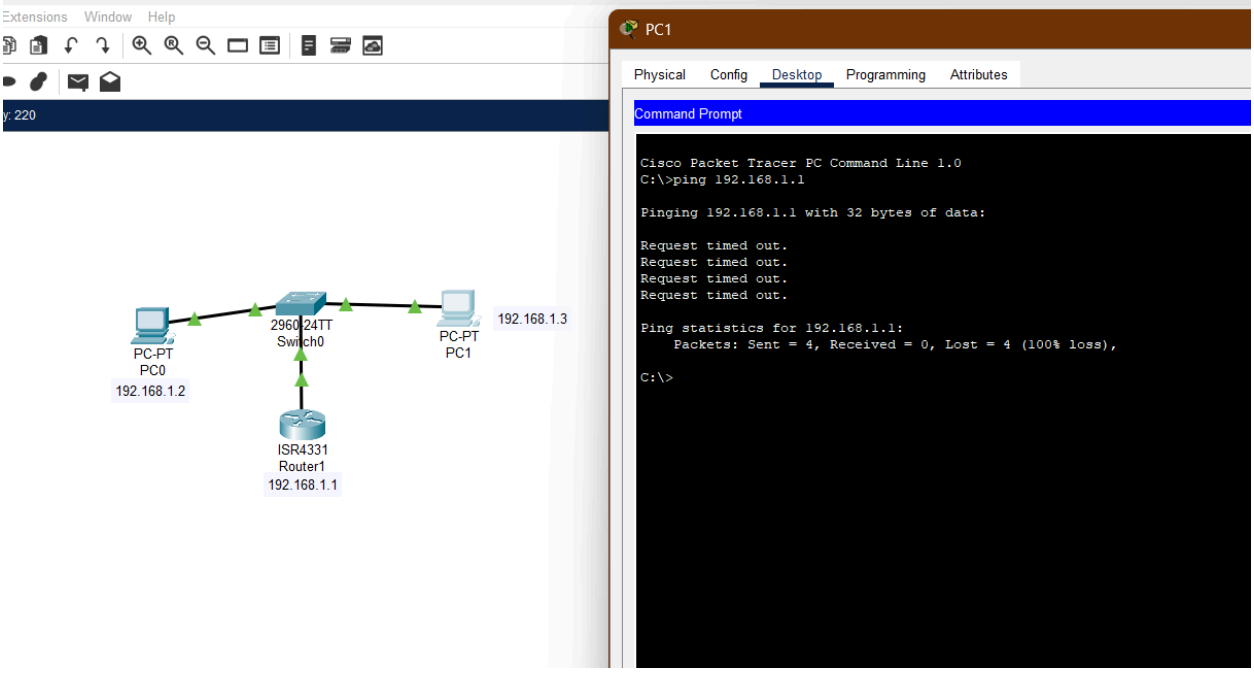
- **Packet Filtering Firewall:** Filters by IP, port, protocol.
- **Stateful Inspection Firewall:** Tracks active connections.
- **Application Layer Firewall:** Filters specific application traffic (e.g., HTTP, FTP).

Practical Task: Basic ACL Configuration (Cisco Packet Tracer)

Goal:

- Allow PC0 to ping the router.
- Block PC1 from pinging the router.





Key Takeaways:

- Firewalls are essential for network security.
- ACLs act as basic firewalls by controlling who can communicate.
- Practice helps understand real-world network security configurations.