



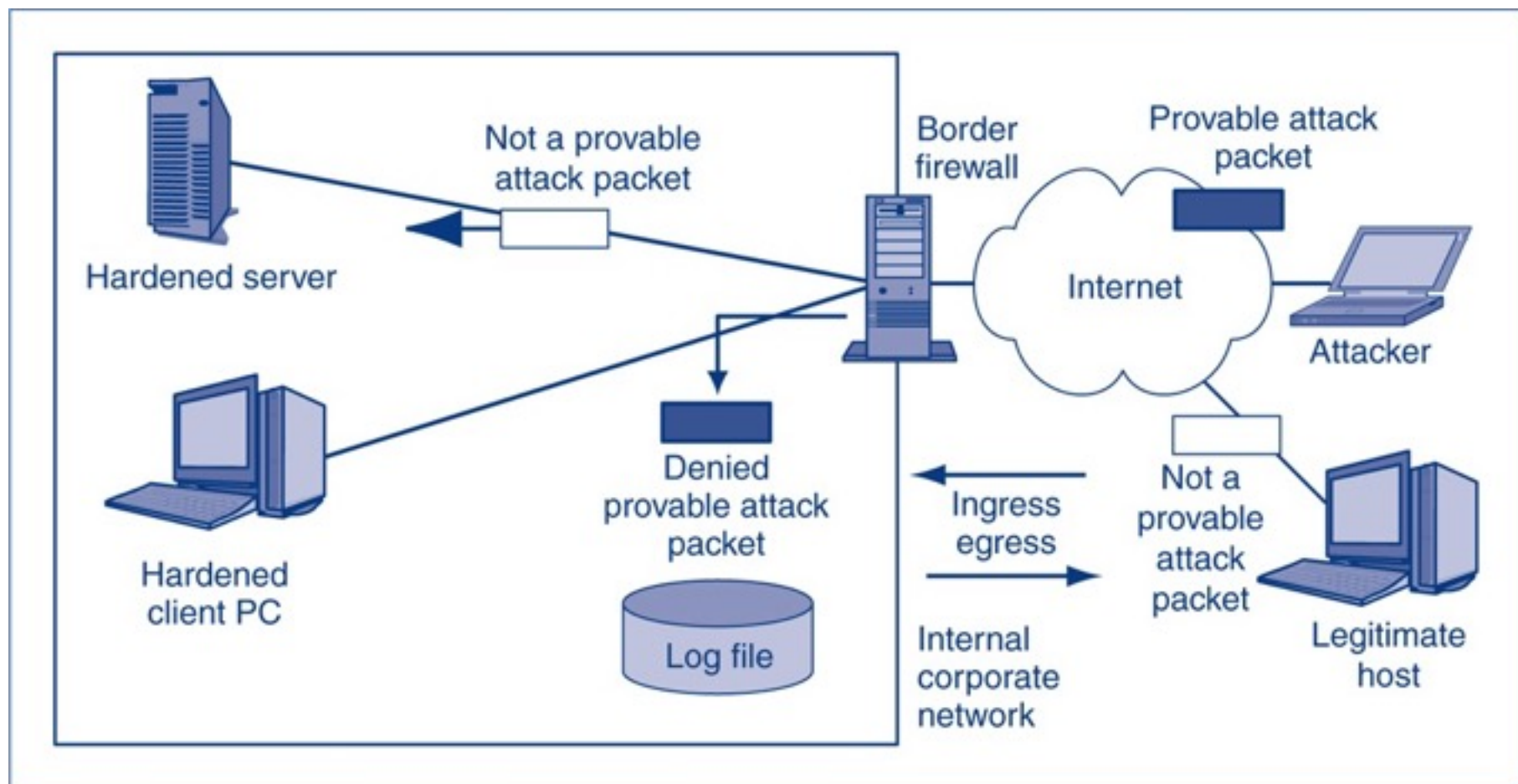
# Week 10

# What Is a Firewall?

# What Is a Firewall?

- A firewall is a computer system
  - Sits between internal network and the rest of the network
  - Attempts to protect the internal network from outside
    - Insiders may send secret internal information to outside
    - Outsiders may break into the inside systems
  - Works based on a policy
  - Basic assumption
    - There is no bypass connection between the networks
    - The firewall itself is immune to penetration

# Typical Firewall Operation



# Firewall Technologies

- Packet filtering firewalls
- Application-level gateway (proxy)
- Circuit-level gateway (CLG)



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