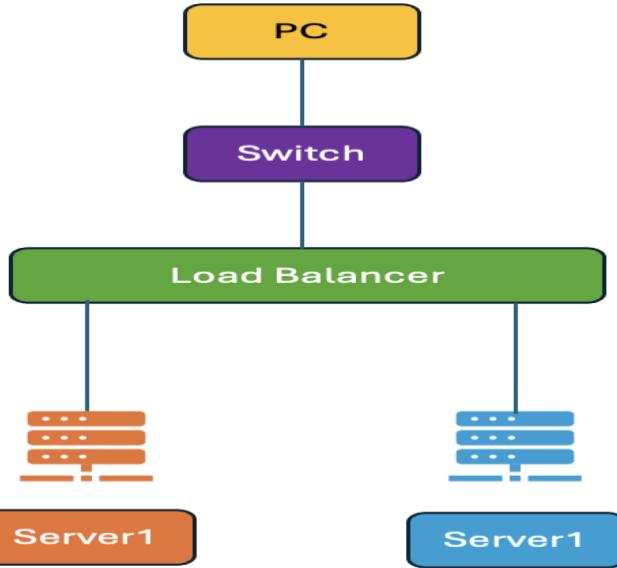


## Layer 4 Load Balancer in Packet Tracer

(Supported using the built-in “Server Load Balancer” device)

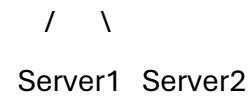


### 📌 Lab Topology

Use the following devices:

- 1 × Client PC
- 1 × L4 Server Load Balancer
- 2 × Web Servers (Server1, Server2)
- 1 × Switch

PC  
|  
Switch  
|  
Load Balancer



## STEP-BY-STEP CONFIGURATION

### STEP 1 — Assign IP Addresses

#### Client PC

IP: 192.168.1.10

GW: 192.168.1.1

#### Load Balancer

Interface 1 (towards PC): 192.168.1.1

Interface 2 (towards servers): 192.168.2.1

#### Server1 / Server2

Server1 IP: 192.168.2.10

Server2 IP: 192.168.2.20

GW: 192.168.2.1

Services: HTTP ON

Set different homepage messages

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### STEP 2 — Configure Load Balancer in Packet Tracer

1. Click **Load Balancer** → **Services** → **Load Balancer**
2. Enable:
  - **HTTP Load Balancing**
  - **Round Robin** (default)
3. Add backend servers:

### **Virtual IP (VIP) Real Server IP Port**

192.168.1.100 192.168.2.10 80

192.168.1.100 192.168.2.20 80

Virtual IP (VIP) acts as the “single website” the client connects to.

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### **STEP 3 — Testing L4 Load Balancing**

On PC → open Web Browser → enter:

<http://192.168.1.100>

You should see:

- **Server1 page** on first refresh
- **Server2 page** on second refresh
- Load balancing continues in a round-robin pattern