**Load Balancer Realistic Use Cases :**  
  
Each "Use Case" represents a vital feature of load balancers  
  
𝟭. 𝗙𝗮𝗶𝗹𝘂𝗿𝗲 𝗛𝗮𝗻𝗱𝗹𝗶𝗻𝗴:  
Auto-rerouting away from failed components for high availability and minimal downtime  
  
𝟮. 𝗜𝗻𝘀𝘁𝗮𝗻𝗰𝗲 𝗛𝗲𝗮𝗹𝘁𝗵 𝗖𝗵𝗲𝗰𝗸𝘀:  
Regularly monitors and verifies the instances health, ensuring incoming traffic solely to operational, healthy instances  
  
𝟯. 𝗣𝗹𝗮𝘁𝗳𝗼𝗿𝗺 𝗦𝗽𝗲𝗰𝗶𝗳𝗶𝗰 𝗥𝗼𝘂𝘁𝗶𝗻𝗴:  
Directs platform-specific (mobile, desktop etc.,) requests to separate backend servers for tailored responses  
  
𝟰. 𝗦𝗦𝗟 𝗧𝗲𝗿𝗺𝗶𝗻𝗮𝘁𝗶𝗼𝗻:  
Offloads SSL encryption/decryption, easing backend server load  
  
𝟱. 𝗖𝗿𝗼𝘀𝘀 𝗭𝗼𝗻𝗲 𝗟𝗼𝗮𝗱 𝗕𝗮𝗹𝗮𝗻𝗰𝗶𝗻𝗴:  
Evenly distribute traffic across multiple availability zones, enhancing fault tolerance and scalability  
  
𝟲. 𝗨𝘀𝗲𝗿 𝗦𝘁𝗶𝗰𝗸𝗶𝗻𝗲𝘀𝘀:  
Ensures session continuity and personalized experiences by connecting users to specific backend servers.

