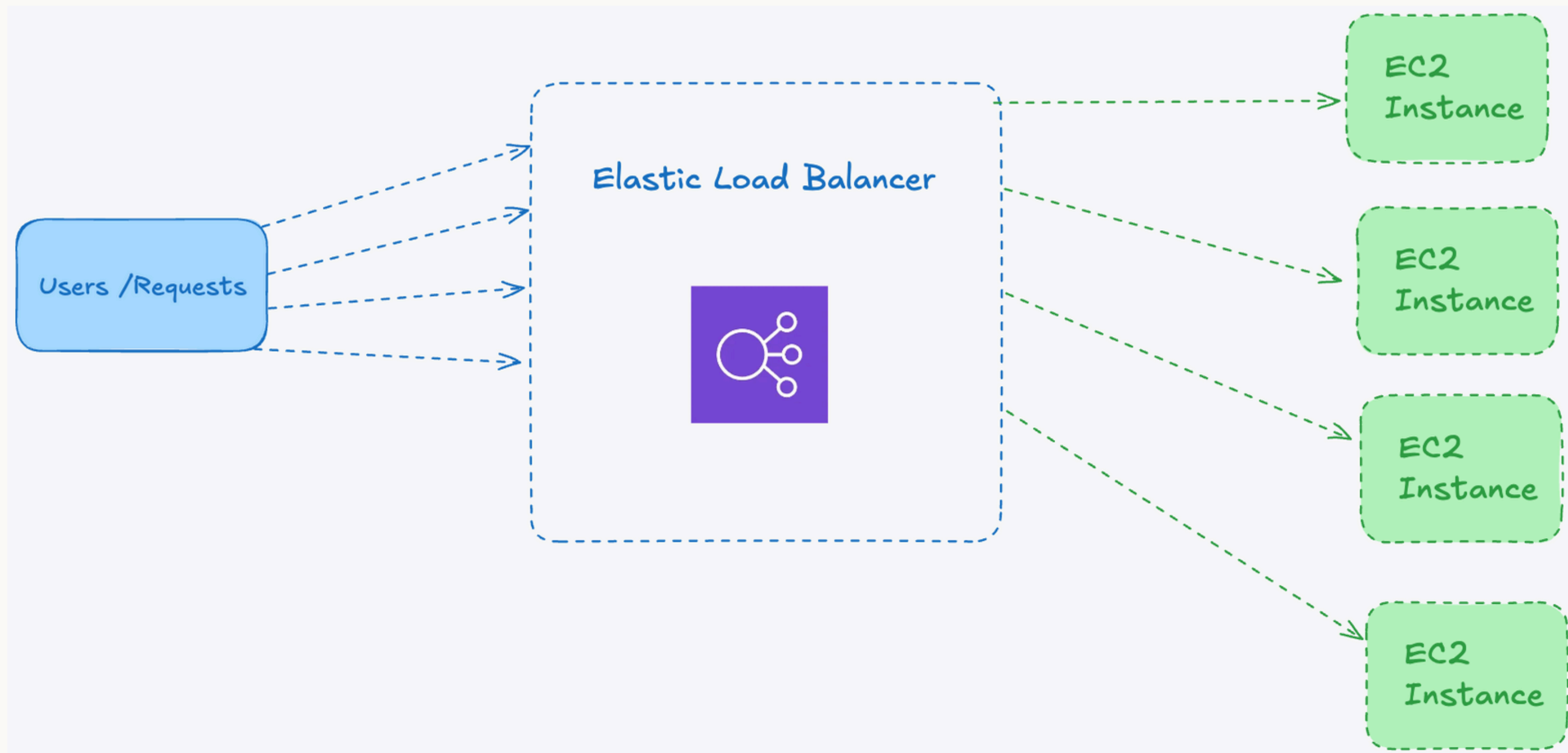


# What is Load Balancing?



# **Why use a load balancer?**

- **Spread load across multiple downstream instances.**
- **Expose a single point of access (DNS) to your application**
- **Seamlessly handle failures of downstream instances**
- **Do regular health checks to your instances**
- **Provide SSL termination (HTTPS) for your websites**
- **Enforce stickiness with cookies**
- **High availability across zones**
- **Separate public traffic from private traffic**

# **Types of load balancer on AWS**

- **Classic Load Balancer (2009) — CLB — HTTP, HTTPS, TCP, SSL**
- **Application Load Balancer (2016) — ALB — HTTP, HTTPS, WebSocket**
- **Network Load Balancer (2017) — NLB — TCP, TLS, UDP**
- **Gateway Load Balancer (2020) — GWLB — Works at layer 3 (IP)**