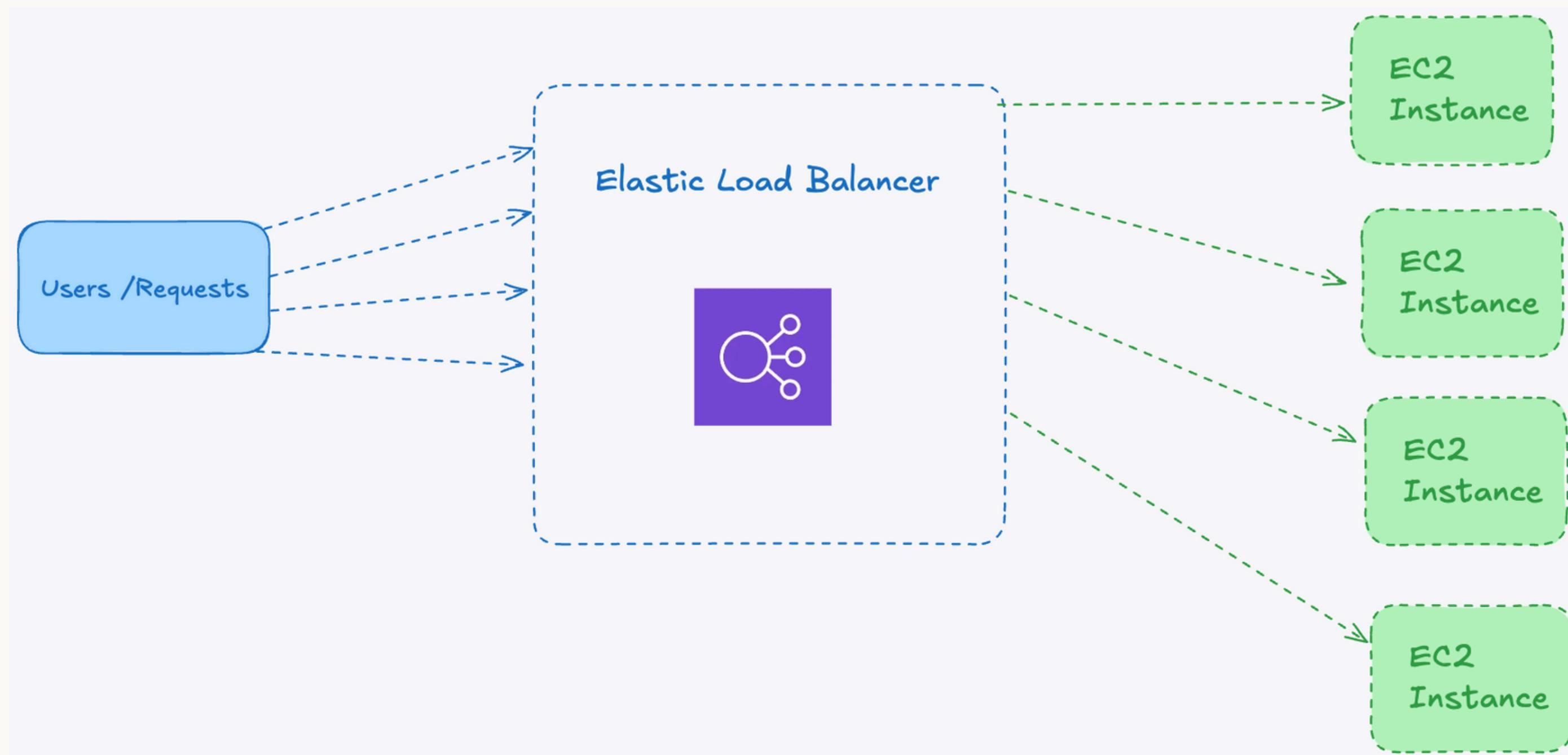


What is Load Balancing?



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)**