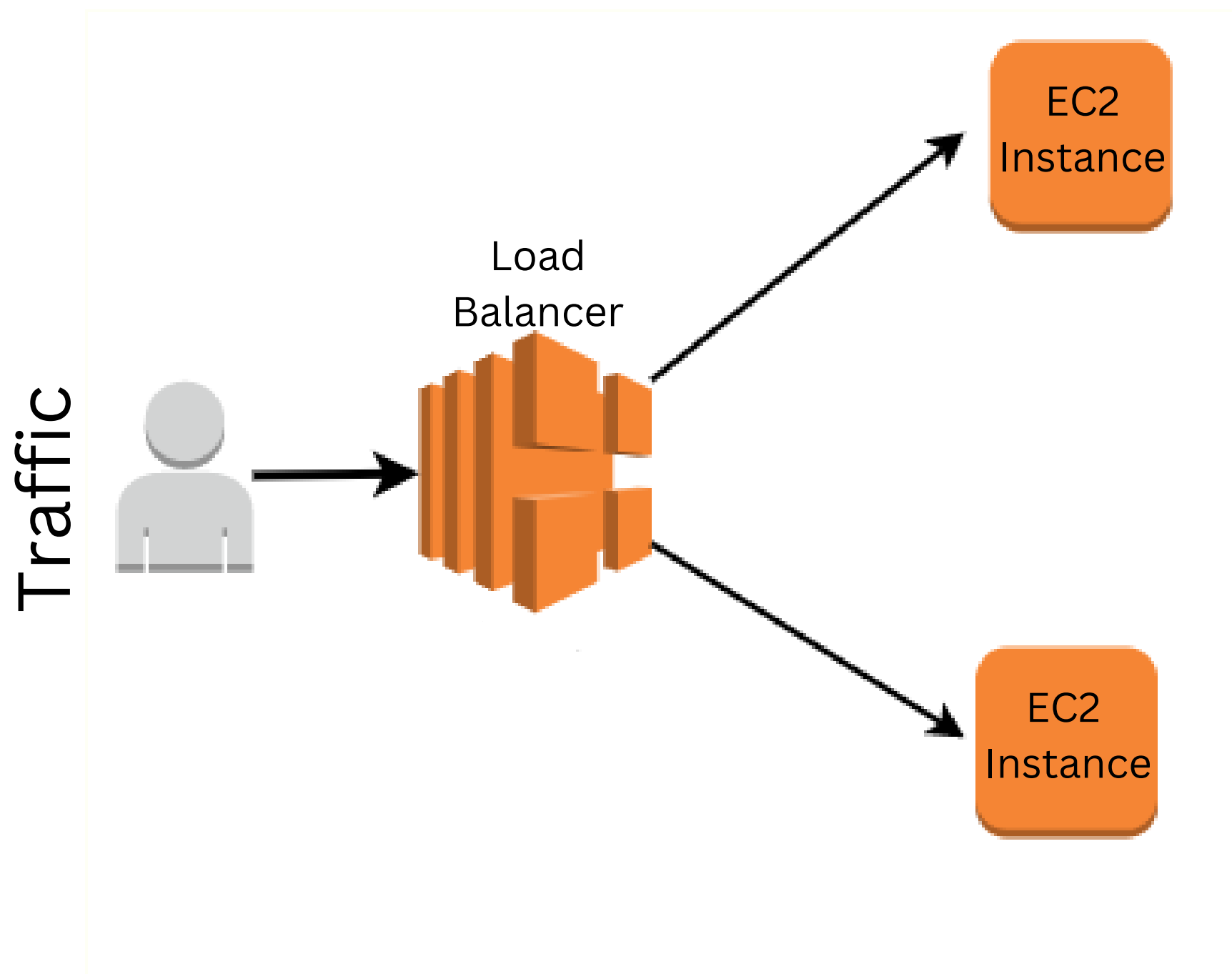


Load Balancer





Load Balancer

Load Balancer are used to distribute traffic across EC2 instances in one or more AZs.

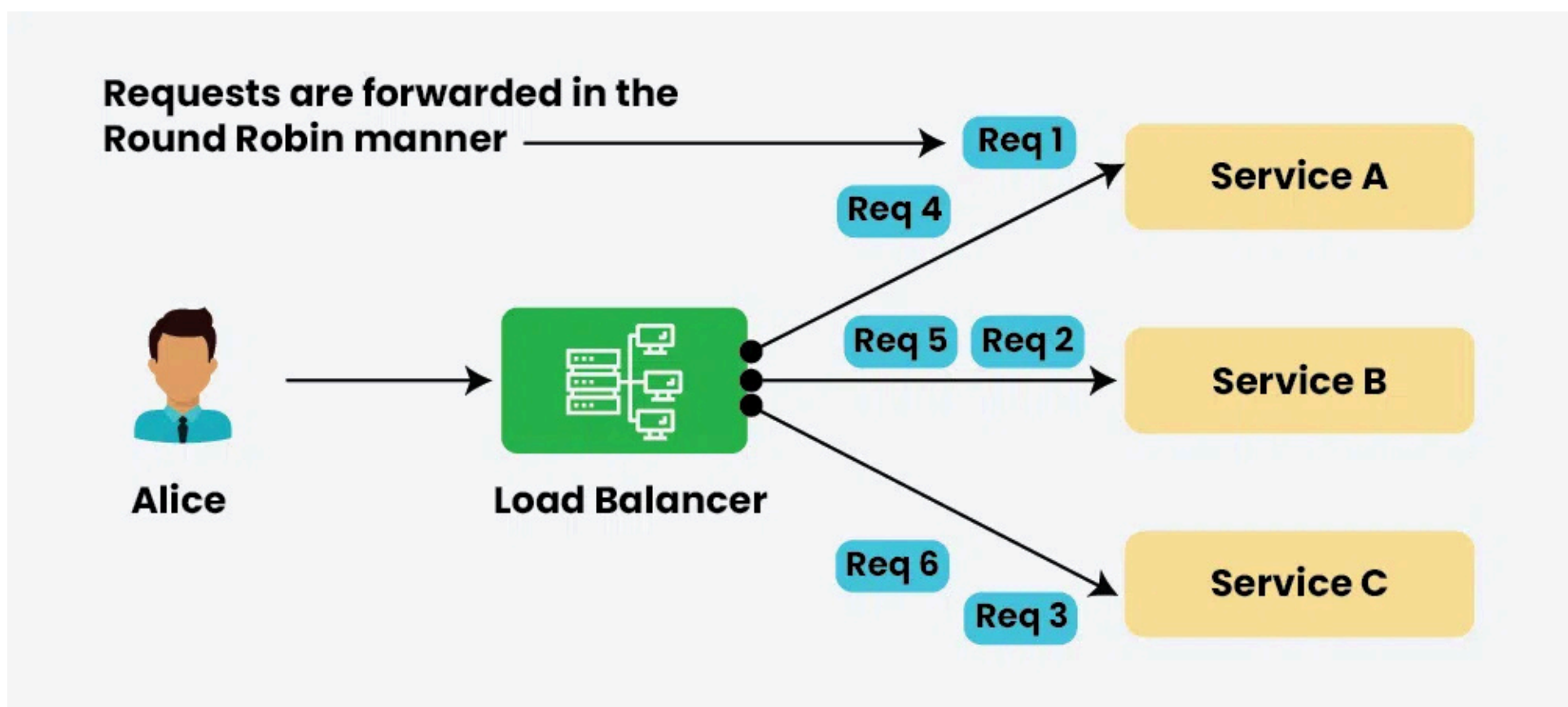
Target Group

Group of instacne that decide that on which instance the traffic has to go.

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Load Balancer policies

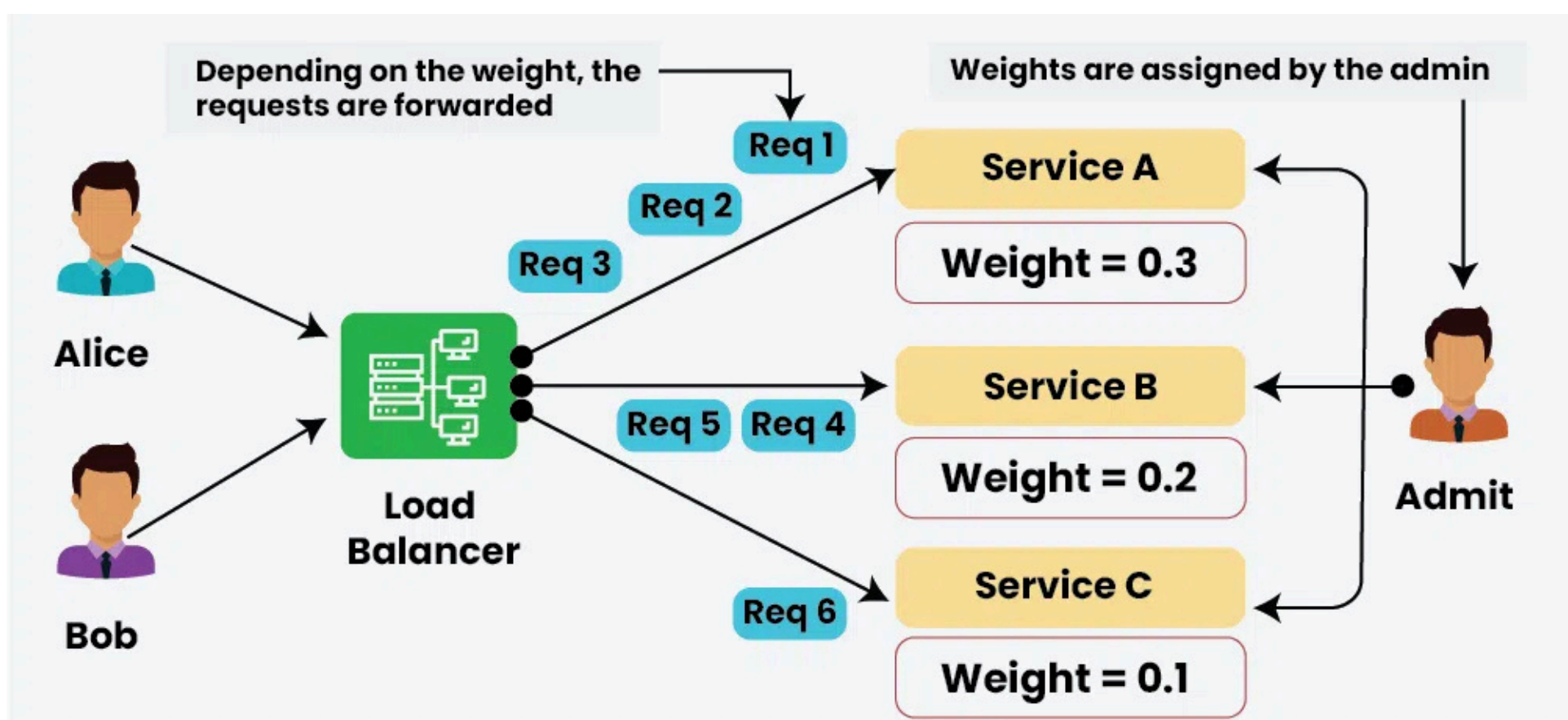
Round Robin :- Simple Technique of distributing the load across the target group's instance in a rotating mananer.
(line by line)



Load Balancer policies

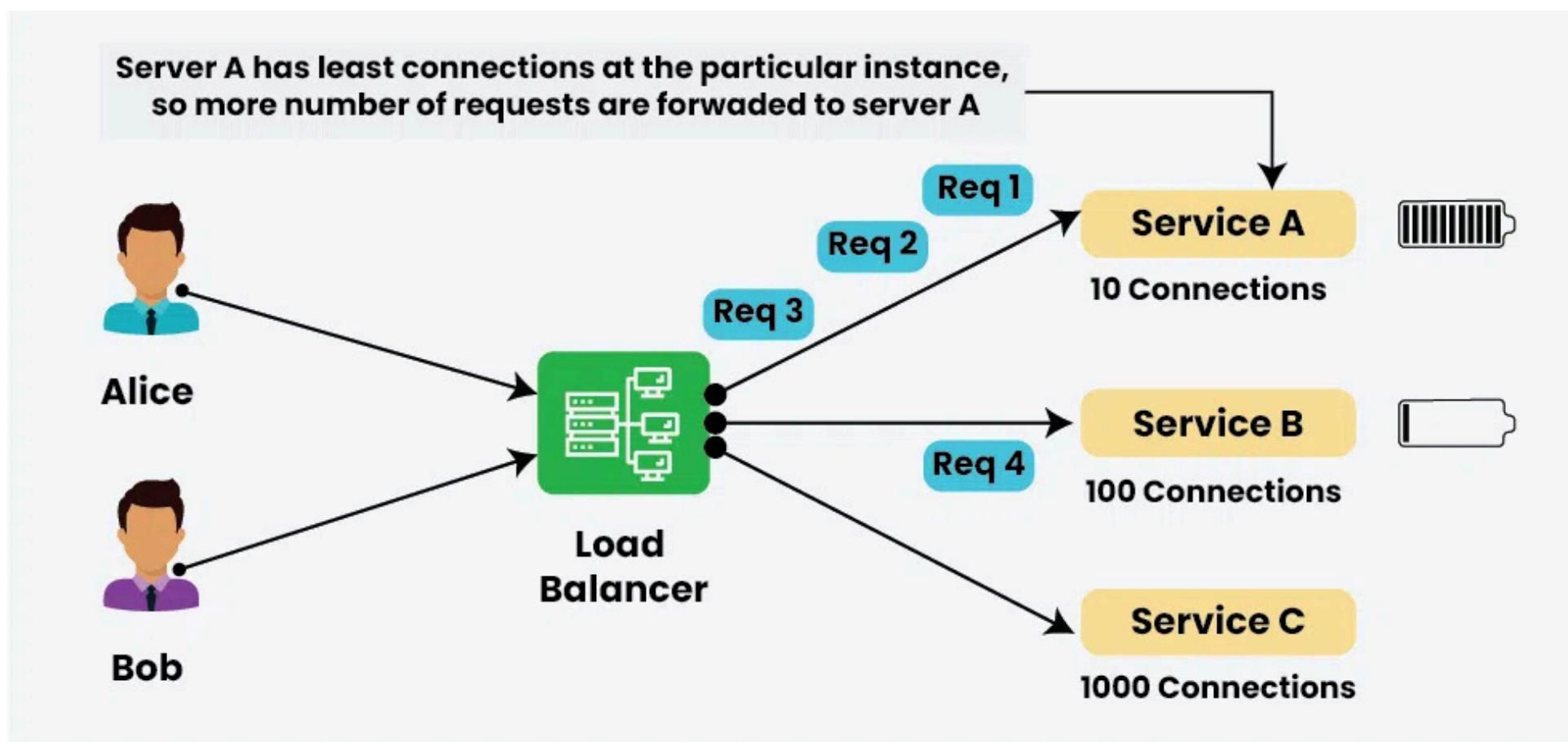
Weighted :- It distribute the load across the target group's instance on the basis of their weight.

weight:- High weighted instance will get higher request to server.



Load Balancer policies

Least Connection :- In this technique we route the traffic to the server who has fewest active connections.





Type of Load Balancers

- 1 Classic Load Balancer
- 2 Application Load Balancer
- 3 Network Load Balancer
- 4 Gateway Load Balancer

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Application Load Balancer

Application Load Balancer functions at the application layer, the seventh layer of the Open Systems Interconnection (OSI) model.

- For Web Services, Application load balancer is used (80/443).

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Network Load Balancer

Network Load Balancer functions at the transport layer, the fourth layer of the Open Systems Interconnection (OSI) model.

- Can handle TCP & UDP request.
- Network Load Balancer is capable of handling millions of requests per second while maintaining ultra-low latencies.

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GateWay Load Balancer

Gateway Load Balancer functions at the network layer, the third layer of the Open Systems Interconnection (OSI) model.

- Hardware firewall
- Before the load balancer the traffic has to go through the firewall.

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Classic Load Balancer

Classic Load Balancer functions at the 7th and 4th layer of Open Systems Interconnection (OSI) model.

- Choose a Classic Load Balancer when you have an existing application running in the EC2-Classic network.

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