Elastic Load Balancing (ELB)

What is Elastic Load Balancing (ELB)?

- ELB (Elastic Load Balancers) are components allowing you to distribute workloads across multiple compute resources.
- They can be configured to automatically distribute incoming application traffic across multiple targets, such as Amazon EC2 instances, containers.
- You can assume ELBs are like traffic police.

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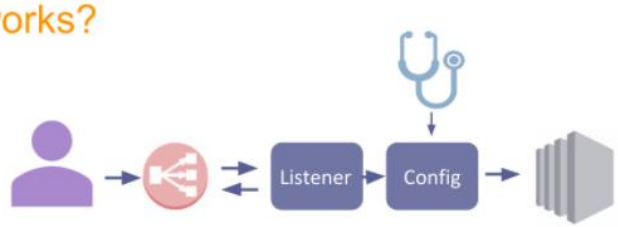
How ELB works?



- Load Balancers basically consist of 2 components, Listeners and Configurations
- Listeners are used to listen to the incoming traffic load
- Configurations are series of rules that provide traffic direction according to the listener analysis.
- Health Checks also provide parameters for configurations to leverage.

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	Application Load Balancer	Network Load Balancer	Classic Load Balancer
Port	HTTP, HTTPS	TCP/SSL	HTTP, HTTPS and TCP/SSL
Use case	It is best suited for the load balancing of HTTP and HTTPS traffic.	It is best suited for load balancing the TCP traffic when high performance is required.	Although Classic Load Balancer can do what others do, AWS doesn't recommend you to prefer Classic Load Balancer anymore.

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Health Checking

- Health Checking is a function used to determine whether the instances working properly in load balancing.
- The Load Balancers use Health Checking results to decide correctly when directing a traffic.
- All load balancer types are compatible with health checking.

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