

AWS Certified Cloud Practitioner
Training Bootcamp

Application Load Balancer Basics 101

AWS Elastic Load Balancing Overview

- With AWS Elastic Load Balancing, you can achieve fault tolerance for any application by ensuring scalability, performance and security
- Elastic Load Balancing automatically distributes incoming application traffic across multiple targets (i.e. EC2)
- AWS ELB supports three types of load balancers:
 - Network Load Balancers
 - Classic Load Balancers
 - Application Load Balancers

AWS ELBs Product Comparison

■ AWS ELBs comparison:

<https://aws.amazon.com/elasticloadbalancing/features/>

Feature	Application Load Balancer	Network Load Balancer	Classic Load Balancer
Protocols	HTTP, HTTPS	TCP, TLS	TCP, SSL/TLS, HTTP, HTTPS
Platforms	VPC	VPC	EC2-Classic, VPC
Health checks	✓	✓	✓
CloudWatch metrics	✓	✓	✓

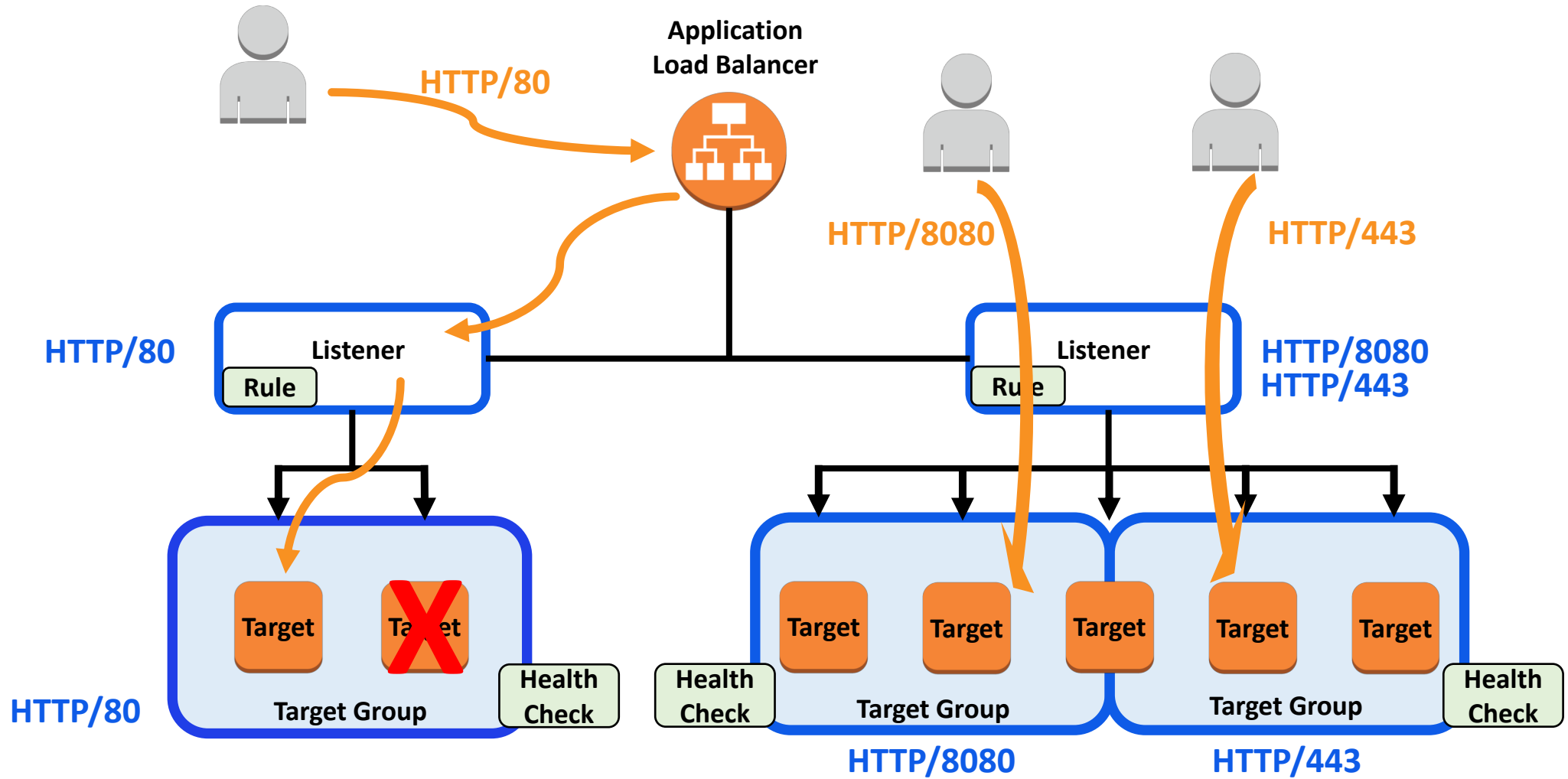
AWS ALB Architecture Components

- The *Load Balancer* is the single point of contact for clients
- The load balancer distributes incoming application traffic across multiple targets, such as EC2 instances, in multiple Availability Zones, which results in increased availability of your application
- The *Listener* checks for connection requests from clients, using the protocol/port configured and forwards requests to one or more target groups

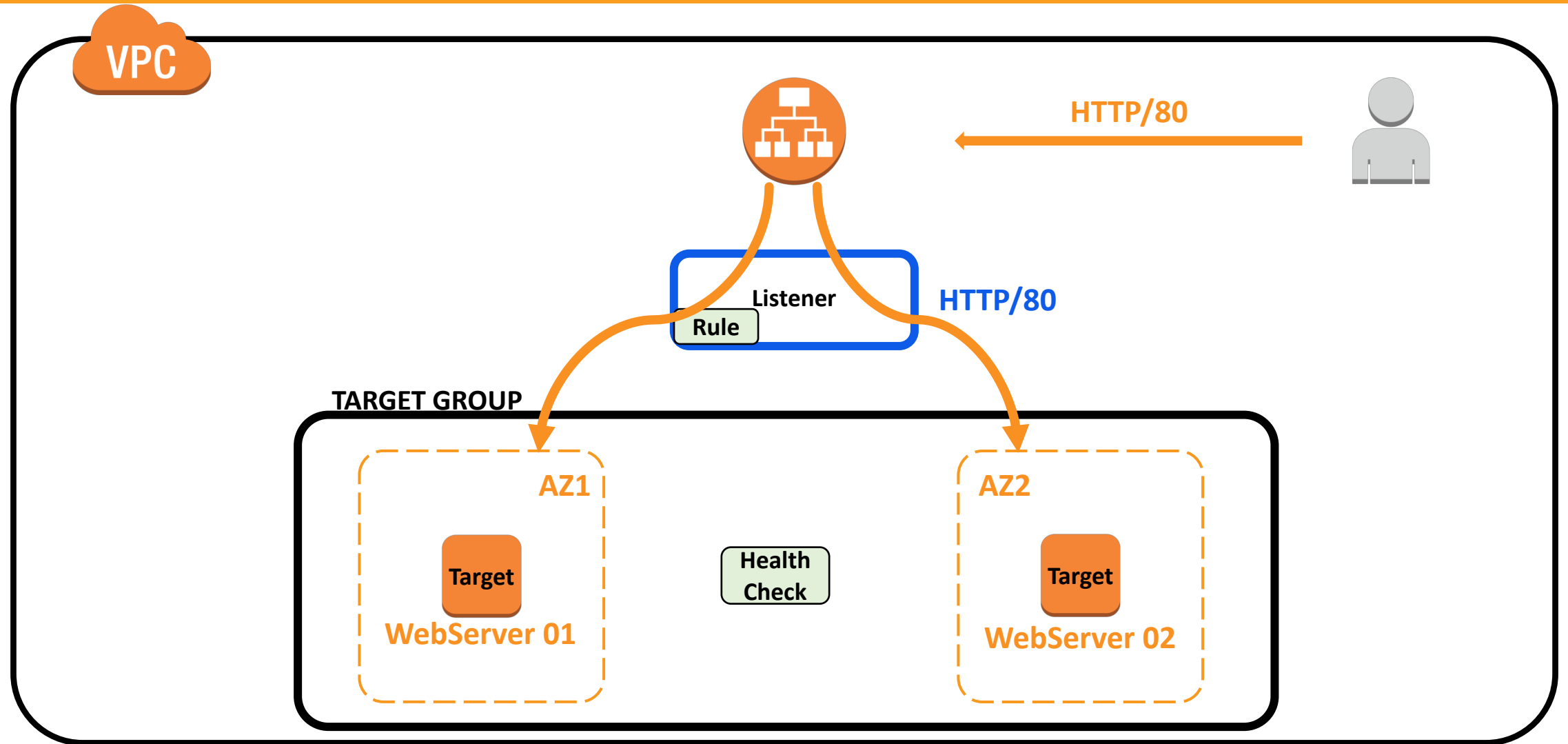
AWS ALB Architecture Components

- You will define *Rules* for traffic forwarding, including *Target Groups*, condition and priority
- The *Target Group (TG)* routes requests to one or more registered targets, such as EC2 instances, using protocol/port number that you configured
- A *Target* can be registered with multiple target groups
- *Health checks* are run on all targets registered to a TG

AWS ALB Architecture Components



In the next section ...



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Thank you