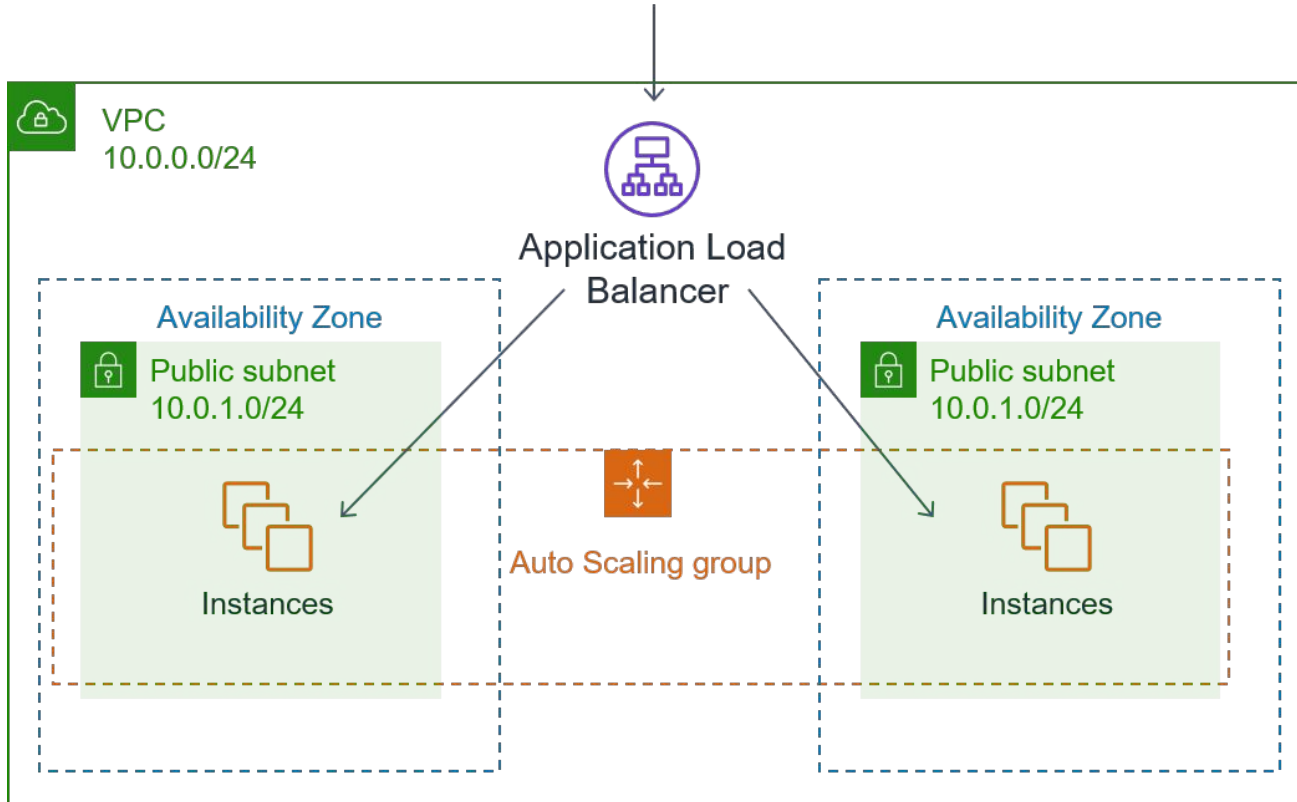


AWS Application Load Balancer & AWS EC2 Autoscaling

AWS ALB with EC2 Autoscaling

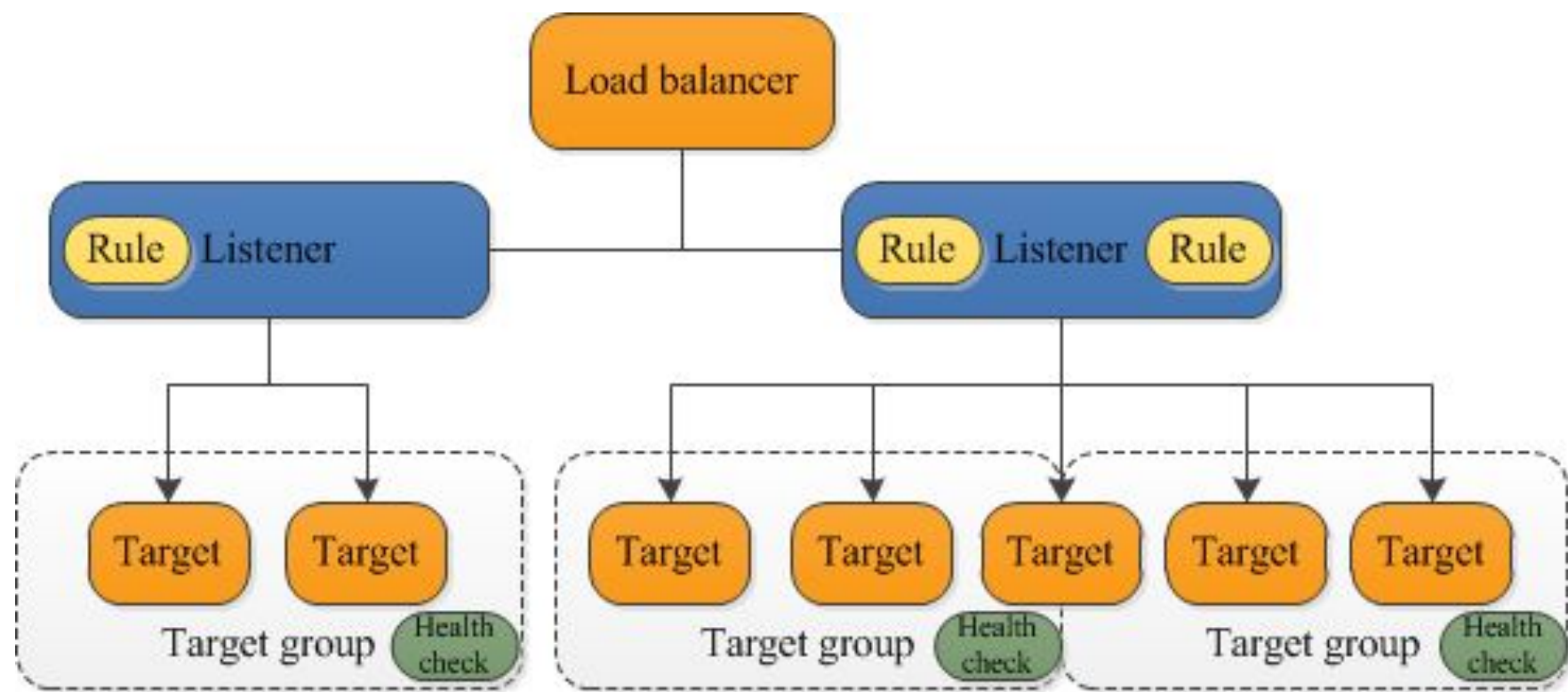


Application Load Balancer components

- The **load balancer** distributes incoming application traffic across multiple targets.
- A **listener** checks for connection requests from clients, using the protocol and port that you configure.
- Each **target group** routes requests to one or more registered targets

Note:

- ❖ You must ensure that your load balancer can communicate with registered targets on both the listener port and the health check port.
- ❖ Whenever you add a listener to your load balancer or update the health check port for a target group used by the load balancer to route requests, you must verify that the security groups associated with the load balancer allow traffic on the new port in both directions.



Auto Scaling components

- **Groups** - Your EC2 instances are organized into groups so that they can be treated as a logical unit for the purposes of scaling and management. When you create a group, you can specify its minimum, maximum, and, desired number of EC2 instances.
- **Configuration templates** - Your group uses a launch template, or a launch configuration (not recommended, offers fewer features), as a configuration template for its EC2 instances. You can specify information such as the AMI ID, instance type, key pair, security groups, and user data for your instances.
- **Scaling options** - Amazon EC2 Auto Scaling provides several ways for you to scale your Auto Scaling groups. For example, you can configure a group to scale based on the occurrence of specified conditions (dynamic scaling) or on a schedule.

Auto Scaling group



Minimum size

Scale out as needed

Desired capacity

Maximum size

AWS Cloudformation Documentation

- Application Load Balancer
 - [AWS::ElasticLoadBalancingV2::LoadBalancer - AWS CloudFormation](#)
 - [ElasticLoadBalancingV2::Listener - AWS CloudFormation](#)
 - [AWS::ElasticLoadBalancingV2::TargetGroup - AWS CloudFormation](#)
- Auto Scaling
 - [AWS::AutoScaling::AutoScalingGroup - AWS CloudFormation](#)
 - [AWS::EC2::LaunchTemplate - AWS CloudFormation](#)
 - [AutoScaling::ScalingPolicy - AWS CloudFormation](#)
- Security Groups
 - [EC2::SecurityGroup - AWS CloudFormation](#)
- Cloudformation intrinsic functions
 - [Intrinsic function reference - AWS CloudFormation](#)