What’s an Auto Scaling Group?

Auto Scaling Group in AWS with Load Balancer

Test1 Question 12:

Which of the following AWS services should be used to automatically distribute incoming traffic across multiple targets?

* 

**AWS Elastic Load Balancing**

* 

**AWS Elastic Beanstalk**

* 

**AWS Auto Scaling**

* 

**Amazon Elasticsearch**

**Explanation**

Correct option:

**AWS Elastic Load Balancing**

Elastic Load Balancing is used to automatically distribute your incoming application traffic across all the EC2 instances that you are running. You can use Elastic Load Balancing to manage incoming requests by optimally routing traffic so that no one instance is overwhelmed. Your load balancer acts as a single point of contact for all incoming web traffic to your application. When an instance is added, it needs to register with the load balancer or no traffic is routed to it. When an instance is removed, it must deregister from the load balancer or traffic continues to be routed to it.

Incorrect options:

**AWS Elastic Beanstalk** - AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed in a variety of programming languages. You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. You cannot use Beanstalk to distribute incoming traffic across multiple targets.

**Amazon Elasticsearch** - The term "Elasticsearch" is used to define a distributed, open source search and analytics engine for all types of data, including textual, numerical, geospatial, structured, and unstructured. Amazon Elasticsearch Service is a fully managed service that makes it easy to deploy, secure, and run Elasticsearch cost effectively at scale. It is a search and analytics service from Amazon.

**AWS Auto Scaling** - AWS Auto Scaling monitors your applications and automatically adjusts capacity to maintain steady, predictable performance at the lowest possible cost. Using AWS Auto Scaling, it’s easy to setup application scaling for multiple resources across multiple services in minutes. This is a scaling service that helps you spin up resources as and when you need them and scale down when the high demand reduces. Auto Scaling can be used with Elastic Load Balacing to build high performance applications.

Reference:

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