Osvaldo
07.23.2024
Auto Scaling Group

Tango and Cash

Auto Scaling and Load Balancer

www.e-commerce...

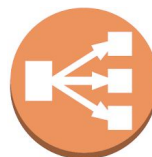## Publishing the website

aws

EC2

THE *Chocolate* MARKET

- Web Server work in EC2 machine

NGINX

8 gb   8gb   8gb
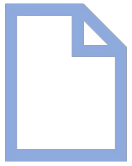
EC2   EC2   EC2
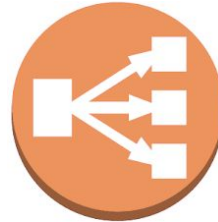
Load Balancer

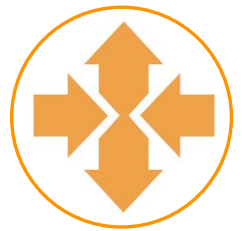DNS   Health CHECK

Distribute

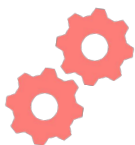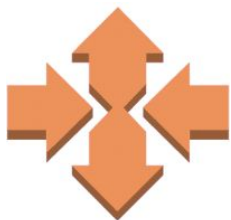Launch Template

TARGET GROUP

Load Balancer

Auto Scaling GROUP

Auto Scaling says "Give me INSTANCE SAMPLE"

Plaster Mold
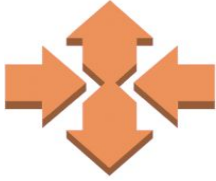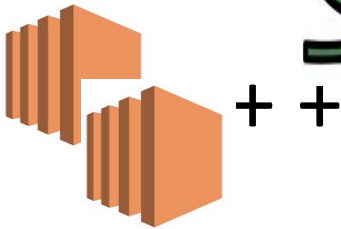
Launch Template +

+ + +

Launch Template 1

Auto Scaling

4

Load Balancer

Water level is dynamic

Target Group = Pool

2

+ +

3

Target Group

Load Balancer

+ + +
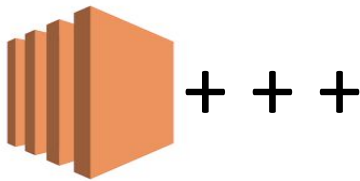
REGISTERING
Manually

Target Group = Pool

Load Balancer
+ Auto Scaling
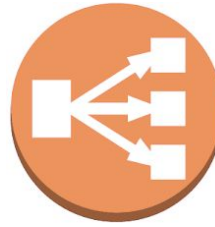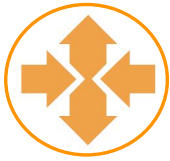
Auto Scaling

az-1

az-2

.az-3

.az-4

.az-5

az-6

TARGET GROUP

az-1

az-2

az-3

az-4

az-5

az-6

Load Balancer

az-1

az-2

az-3

az-4

HEALTHY THRESHOLD

INTERVAL= 30 SEC

Unhealthy

CONSECUTIVE SUCCESSFUL HEALTH CHECK

1   2   3   Healthy

UNHEALTHY THRESHOLD

Timeout =5 sec

Healthy

CONSECUTIVE FAILED HEALTH CHECK
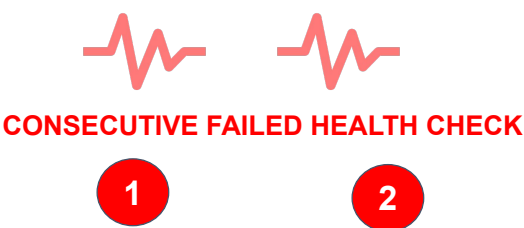
1   2   Unhealthy

Health Check Grace Period & Cooldown Period

Muddy Sandy Sea Bottom in first seconds of diving

Clear Sea Bottom after waiting for a while

1   **2**   **3**

Launch   **Waiting for "Health Check Grace Period"**   Health Check

1   **2**   **3**

Scaling Situation   **Waiting for "Cooldown Period"**   Scaling

- triggered by exceeding the limits

- we watch out the limits

can trigger

Alarms

CLARUSWAY
WAY TO REINVENT YOURSELF

Instances	Desired	Min	Max
Current/3	Will be/3	Min limit for Policy-1	Max limit for Policy -10

Auto Scaling group

Minimum size

Scale out as needed

Desired capacity

Maximum size

Multiplexing

3 TCP connections

HTTP 1.1 — jquery.js, example.css, image.png ↔ jquery.js, example.css, image.png — Server

1 TCP connection

HTTP/2 — jquery.js, example.css, image.png ↔ jquery.js, example.css, image.png — Server