Osvaldo
09.14.2023
Auto Scaling Group

www.e-commerce...

Publishing the website

EC2

aws
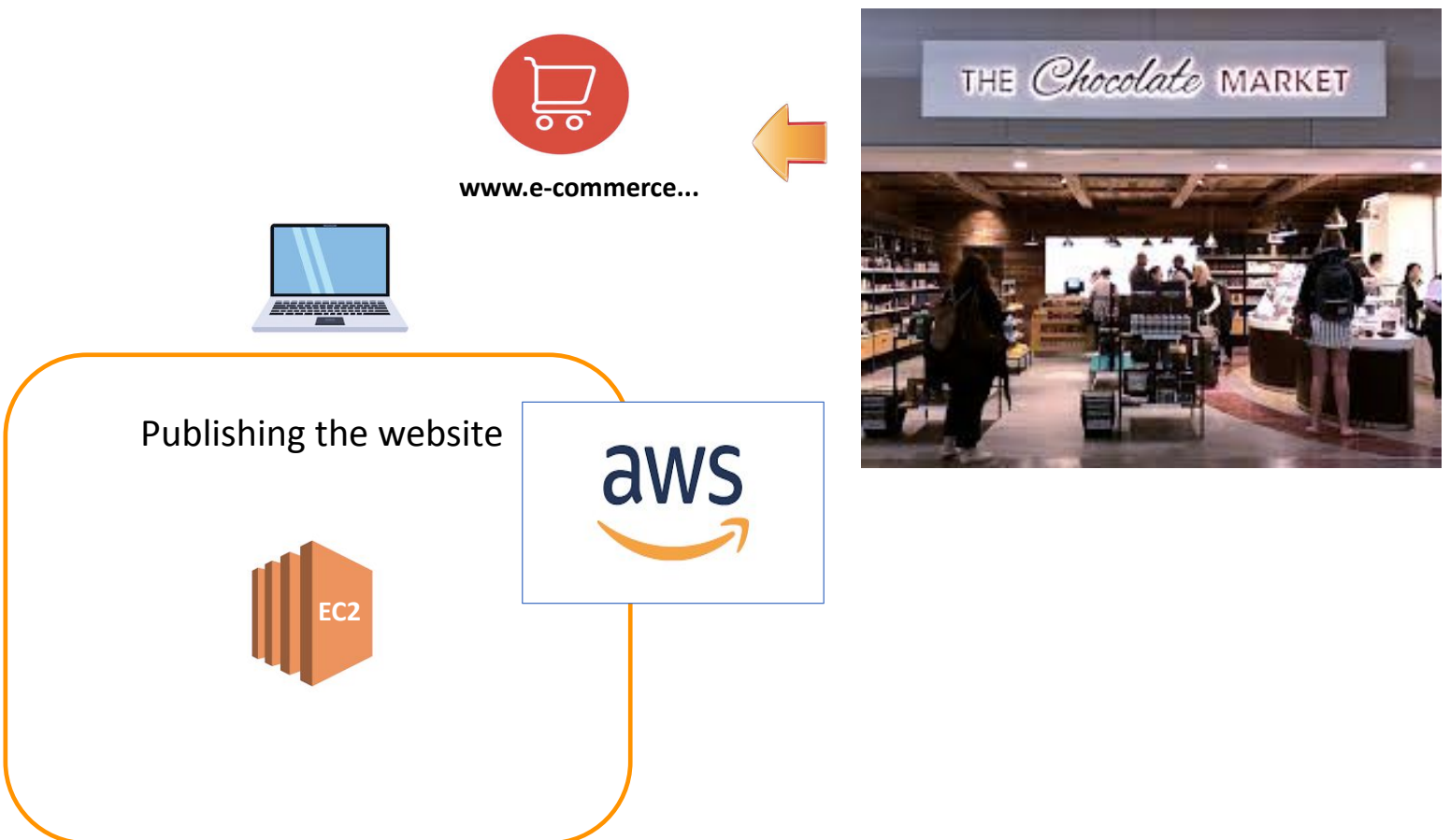
- Web Server work in EC2 machine

NGINX

8 gb   8gb   8gb

EC2   EC2   EC2   Load Balancer
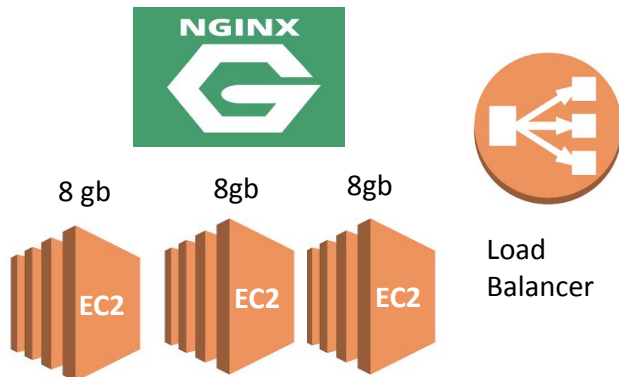
DNS   **Health CHECK**

Distribute

Load Balancer

Request

AWS
Load Balancer Officer

Auto Scaling

EC2   EC2   EC2   EC2
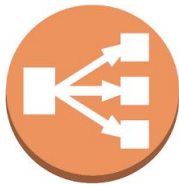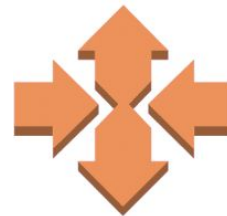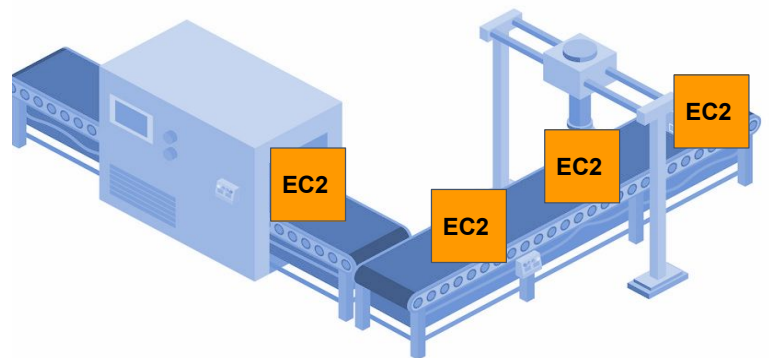
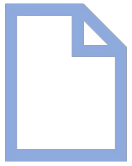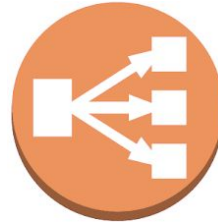**New instance creating capability**
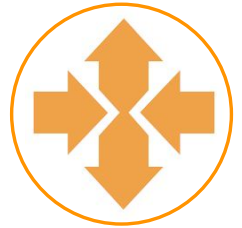
Launch Template
Launch Configuration

TARGET GROUP

Load Balancer

Auto Scaling
GROUP

Auto Scaling says "Give me INSTANCE SAMPLE"

Plaster Mold

Launch Template +
Launch Configuration +

+ + +

Target Group

Load Balancer

+ + +

REGISTERING
Manually
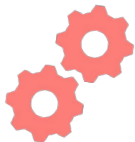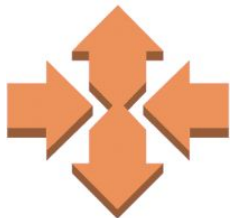
Target Group = Pool

Load Balancer
+ Auto Scaling
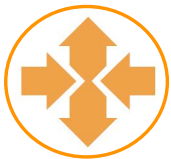
Auto Scaling

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
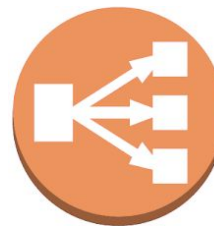
Load Balancer

az-1

az-3

az-5

az-6

Launch Template **1**
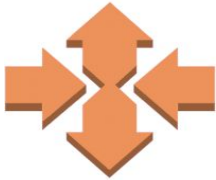Launch Configuration

Auto Scaling **4**

+ + +

Target Group = Pool **2**

3
Load Balancer

Water level is dynamic

HEALTHY THRESHOLD

INTERVAL= 10 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 2	Will be/2	Min limit for Policy-2	Max limit for Policy -4

Auto Scaling group

Minimum size

Scale out as needed

Desired capacity

Maximum size

Multiplexing

HTTP 1.1

jquery.js — example.css — image.png

3 TCP connections

jquery.js — example.css — image.png

Server

HTTP/2

jquery.js
example.css
image.png

1 TCP connection

jquery.js
example.css
image.png

Server