Osvaldo
20.12.2023
Auto Scaling Group

Tango and Cash

Auto Scaling and Load Balancer

www.e-commerce...

THE *Chocolate* MARKET
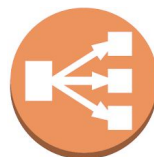
Publishing the website

aws

EC2

- Web Server work in EC2 machine
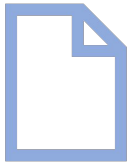
NGINX

8 gb   8gb   8gb
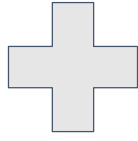
EC2   EC2   EC2

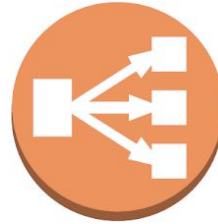Load Balancer

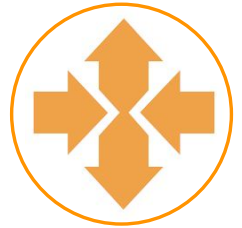DNS   Health CHECK
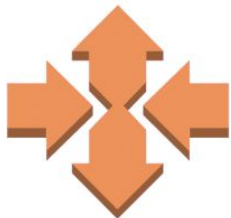
Distribute

Launch Template

TARGET GROUP

Load Balancer

Auto Scaling GROUP

Auto Scaling says "Give me INSTANCE SAMPLE"
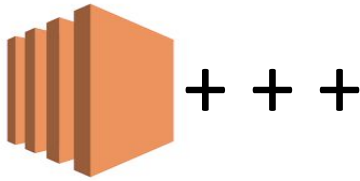
Plaster Mold

Launch Template +

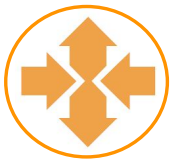# Target Group

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>>
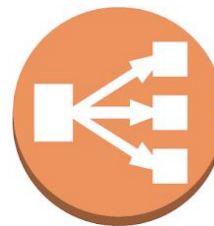
az-2>>>

az-3

az-4

az-5>>

az-6

Load Balancer

az-1

az-3

az-5

az-6

Launch Template 1

Auto Scaling 4

3

Load Balancer

Water level is dynamic
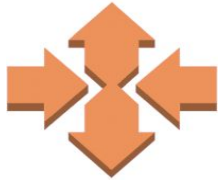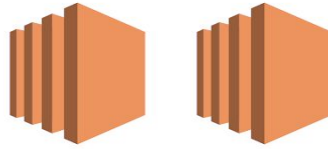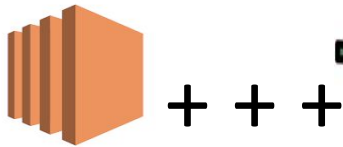
Target Group = Pool 2

+ + +

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

Instances	Desired	Min	Max
Current/1	Will be/0	Min limit for Policy-1	Max limit for Policy -10

Auto Scaling group

Minimum size

Scale out as needed

Desired capacity

Maximum size

CLARUSWAY
WAY TO REINVENT YOURSELF

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