www.e-commerce...

Publishing the website

aws

EC2

THE *Chocolate* MARKET
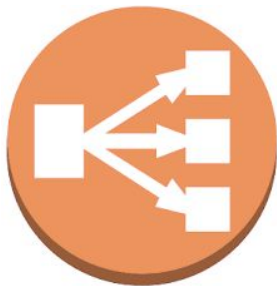
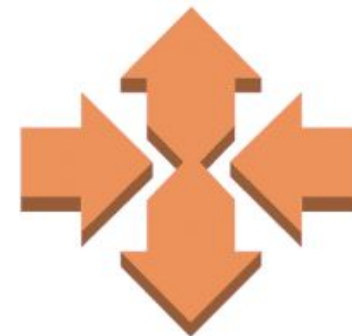- Web Server work in EC2 machine

NGINX

8 gb   8gb   8gb

EC2   EC2   EC2   Load Balancer
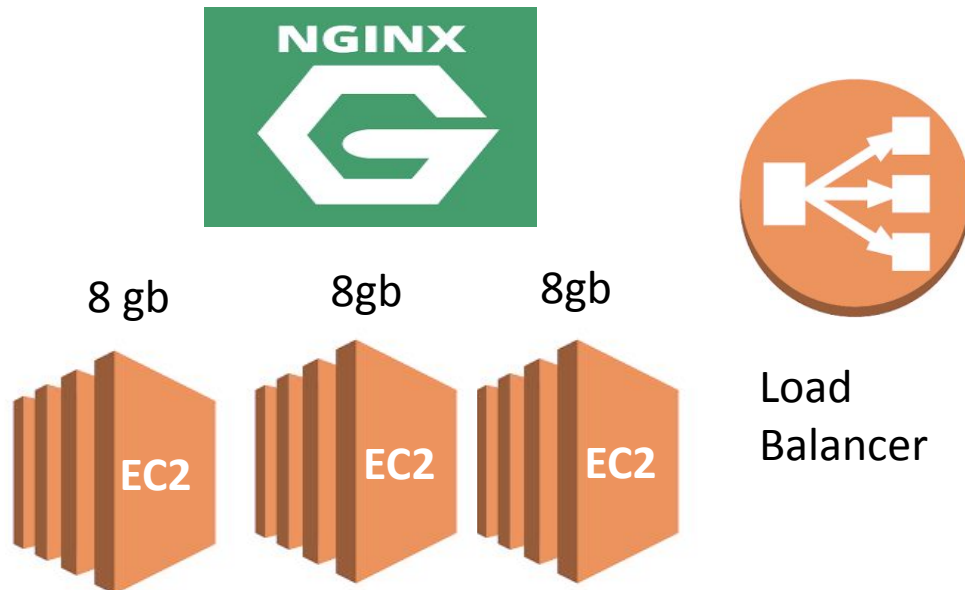
DNS   Health CHECK

Distribute

Load Balancer

Request

AWS
Load Balancer Officer

Auto Scaling

EC2

EC2

EC2

EC2
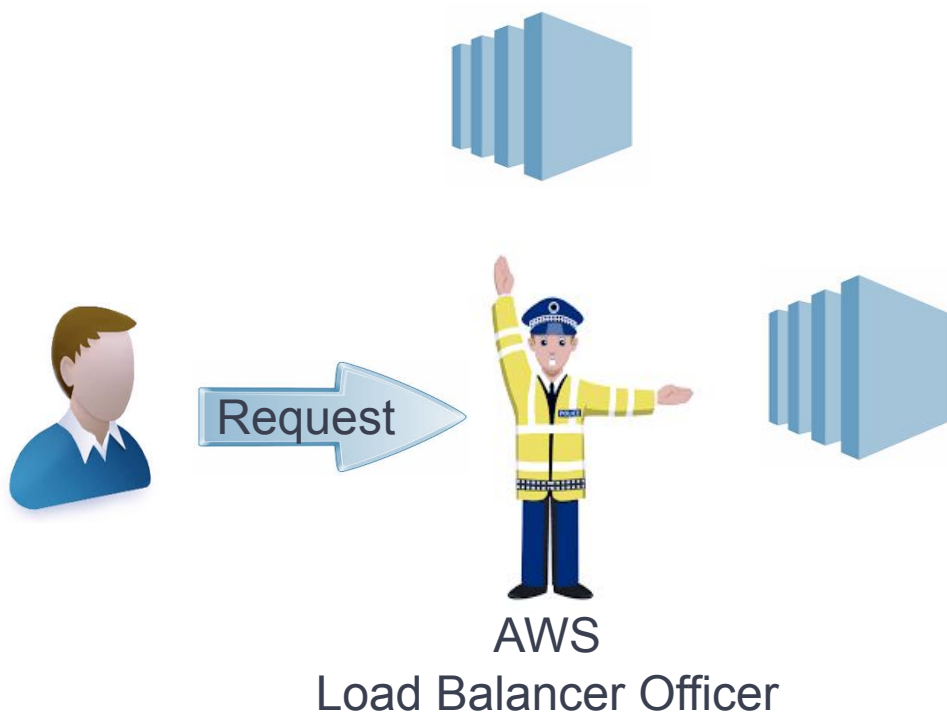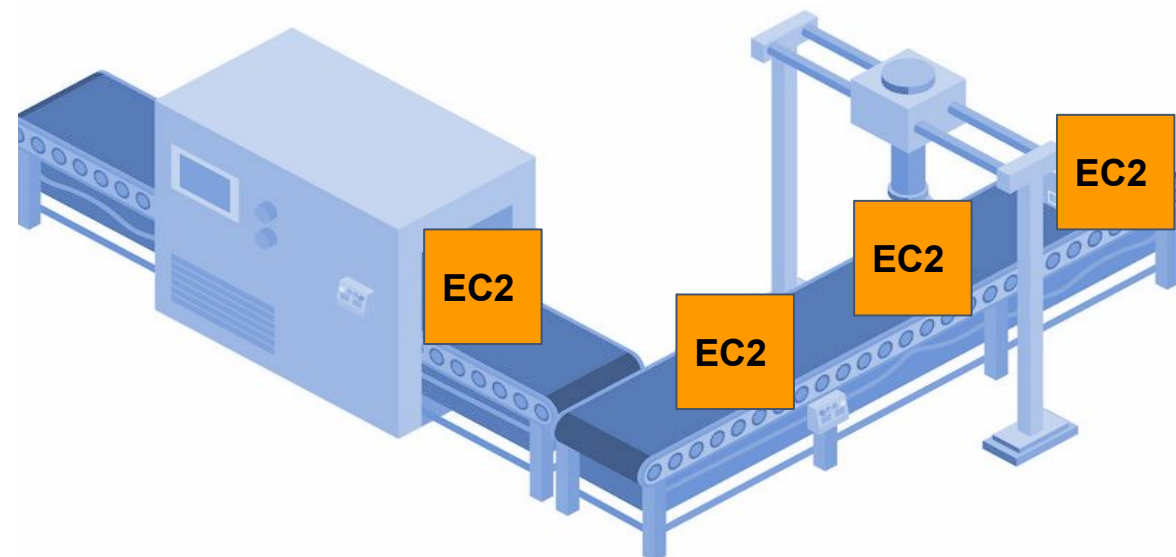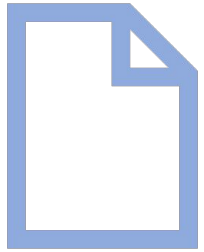
New instance creating capability
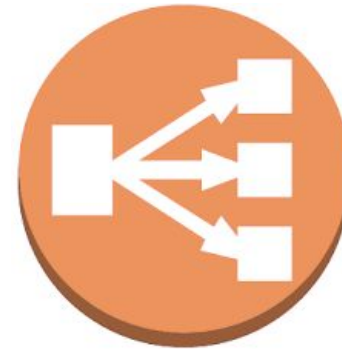
Load Balancer

Auto Scaling
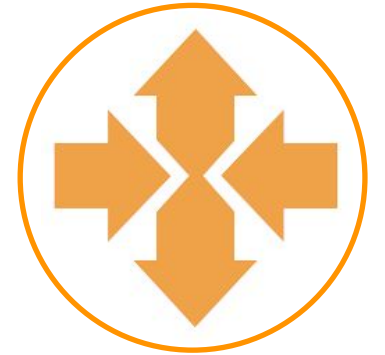
Tango & Cash
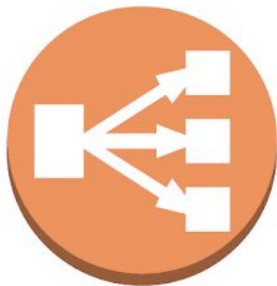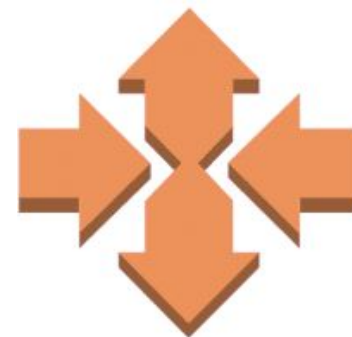
Launch Template
Launch Configuration

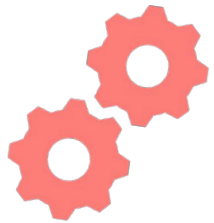TARGET GROUP

Load Balancer
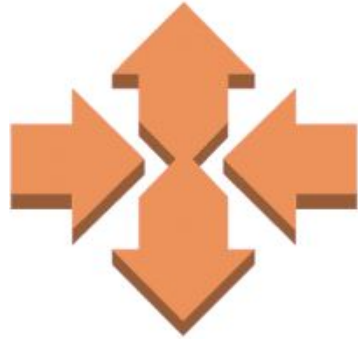
Auto Scaling GROUP

Auto Scaling says "Give me INSTANCE SAMPLE"

Plaster Mold

Launch Template +
Launch Configuration +

Load Balancer

REGISTERING
Manually

Target Group = Pool

HEALTHY THRESHOLD

INTERVAL= 10 SEC

Unhealthy

CONSECUTIVE SUCCESSFUL HEALTH CHECK

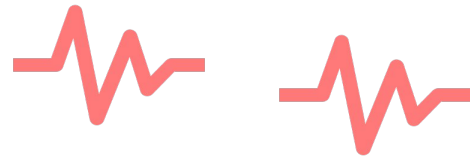1 2 3

Healthy

UNHEALTHY THRESHOLD
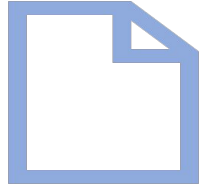
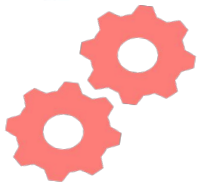Timeout =5 sec

Healthy

CONSECUTIVE FAILED HEALTH CHECK

1 2

Unhealthy

Launch Template

Launch Configuration 1
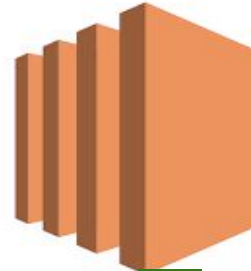
3

Auto Scaling 4

2
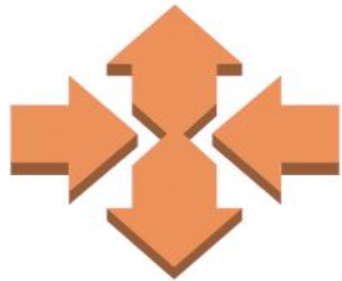
Load Balancer

Water level is dynamic

Target Group = Pool

+ + +
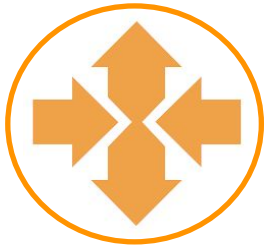
Auto Scaling

az-1>>>>>

az-2>>>

az-6

TARGET GROUP

az-1>>>>

az-2>>>

az-3

az-4

az-5>>

az-6
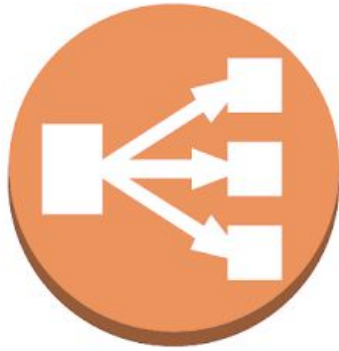
Load Balancer

az-1

az-2

az-3

az-4

az-5

az-6

Health Check Grace Period & Cooldown Period

Muddy Sandy Sea Bottom in first seconds of diving

Clear Sea Bottom after waiting for a while

1 Launch

2 Waiting for "Health Check Grace Period"

3 Health Check

---

1 Scaling Situation

2 Waiting for "Cooldown Period"

3 Scaling

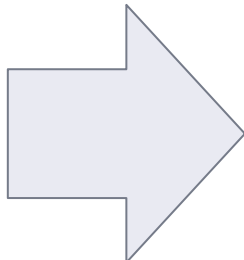- **triggered by** exceeding the limits

- **we watch out** the limits

can trigger

Alarms
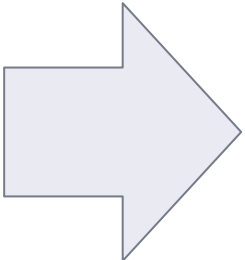
Instances	Desired	Min	Max
Current 3	Will be/ Goal 6	Min limit for Policy1	Max limit for Policy5

Auto Scaling group

Minimum size

Scale out as needed

Desired capacity

Maximum size

Multiplexing

3 TCP connections

jquery.js ⟷ jquery.js

HTTP 1.1

example.css ⟷ example.css

image.png ⟷ image.png

Server

1 TCP connection

jquery.js

HTTP/2

example.css ⟷ example.css

image.png

Server