

Anime Manga Toon assignment

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Configuration of Application Load Balancer and Auto Scaling group

STEP 1: We make an image and template of the existing EC2 instance which has our application running on the nginx server

Step 1: Choose launch template


Edit

Group details

Auto Scaling group name

anime-manga

Launch template

Launch template	Version	Description
anime-manga-toon 	Default	asg anime
lt-092efdda98806a7f2		

STEP 2: We select the Availability zones, this makes our application highly available and scalable


Step 2: Choose instance launch options

[Edit](#)

Network




Network

VPC

[vpc-0164fcbacfa3e87b](#) 

Availability Zone

Subnet

us-east-1a	subnet-08300c87f58ed30cb 	172.31.0.0/20
us-east-1b	subnet-05c229346b0aa2f39 	172.31.80.0/20
us-east-1d	subnet-00e63d24339abaacd 	172.31.32.0/20

STEP 3: We add the Application Load balancer which was created using the target group. The target group has our existing EC2 instance listening our application on port 80.

Step 3: Configure advanced options

[Edit](#)

Load balancing

Load balancer 1

Name

[anime-manga-lb](#) 

Type

Application/HTTP

Target group

[anime-manga-tg](#) 

STEP 4: Here we define policies for our AutoScalingGroup, I have set minimum 1 instance and maximum 3 instances for the webapp.

This policy executes when the CPU reaches utilization of 60%.

Step 4: Configure group size and scaling policies

Edit

Group size		
Desired capacity 1	Desired capacity type Units (number of instances)	

Scaling		
Minimum desired capacity 1	Maximum desired capacity 3	
Target tracking policy Policy type Target tracking scaling	Scaling policy name Target Tracking Policy	Execute policy when As required to maintain Average CPU utilization at 60
Take the action Add or remove capacity units as required	Instances need 300 seconds to warm up before including in metric	Scale in Enabled

Set limits on how much your desired capacity can be increased or decreased.

Min desired capacity

Equal or less than desired capacity

Max desired capacity

Equal or greater than desired capacity

Automatic scaling - *optional*

Choose whether to use a target tracking policy | [Info](#)

You can set up other metric-based scaling policies and scheduled scaling after creating your Auto Scaling group.

☐ No scaling policies

Your Auto Scaling group will remain at its initial size and will not dynamically resize to meet demand.

☒ Target tracking scaling policy

Choose a CloudWatch metric and target value and let the scaling policy adjust the desired capacity in proportion to the metric's value.

Scaling policy name

Metric type | [Info](#)

Monitored metric that determines if resource utilization is too low or high. If using EC2 metrics, consider enabling detailed monitoring for better scaling performance.

Target value

Instance warmup | [Info](#)

seconds

☐ Disable scale in to create only a scale-out policy