

1. Backend Infrastructure: ASG, ALB, Target Group, Launch Template, EC2

The screenshot displays the AWS Management Console interface, showing the details of an Auto Scaling Group (ASG) and a Load Balancer.

Auto Scaling Group (my-auto-scaling-group) Details:

- Group details:**
 - Auto Scaling group name: my-auto-scaling-group
 - Desired capacity: 1
 - Desired capacity type: Units (number of instances)
 - Amazon Resource Name (ARN): arn:aws:autoscaling:us-east-1:970547351397:autoScalingGroup:5ed34ebb-e8ba-4611-b54e-81b3e3265163:autoScalingGroup/my-auto-scaling-group
 - Date created: Mon Oct 14 2024 22:15:32 GMT-0500 (Central Daylight Time)
 - Minimum capacity: 1
 - Status: -
 - Maximum capacity: 3
- Launch template:**
 - Launch template: lt-02f5be16dfb0ad13 my-launch-template
 - AMI ID: ami-06b21c0aeff80c696
 - Instance type: t2.micro
 - Owner: amawsiam:970547351397-root
 - Version: Latest
 - Security groups: -
 - Security group IDs: sg-015ca2daf4e951334
 - Create time: Mon Oct 14 2024 22:11:46 GMT-0500 (Central Daylight Time)
 - Description: -
 - Storage (volumes): -
 - Key pair name: new-key-for-computer-server-1
 - Request Spot Instances: No
- Network:**

Load Balancer (my-load-balancer) Details:

- Details:**
 - Load balancer type: Application
 - Status: Active
 - VPC: vpc-050fa616b48555a3
 - Load balancer IP address type: IPv4
 - Scheme: Internet-facing
 - Hosted zone: Z35SXDOTRQ7X7K
 - Availability Zones: subnet-014947e8da29f5e3 (us-east-1d (use1-az6)), subnet-0a4b6203ff1d0517f (us-east-1a (use1-az1)), subnet-073831d732a25bcd (us-east-1e (use1-az3)), subnet-0c385e291e52931fa (us-east-1c (use1-az4)), subnet-03f03e67b0891622 (us-east-1b (use1-az2)), subnet-022310b0bdc37c5a9 (us-east-1f (use1-az5))
 - Date created: October 14, 2024, 22:08 (UTC-05:00)
 - Load balancer ARN: arn:aws:elasticloadbalancing:us-east-1:970547351397:loadbalancer/app/my-load-balancer/8dca3426fab86906
 - DNS name: my-load-balancer-2118098291.us-east-1.elb.amazonaws.com (A Record)
- Listeners and rules:**
 - Listeners and rules (1) info
 - Filter listeners
 - Protocol/Port: HTTP-80
 - Default action: Forward to target group
 - my-target-for-w1 (1 (100%))
 - Target group stickiness: Off
 - Rules: 1 rule
 - ARN: -
 - Security policy: Not applicable
 - Default SSL/TLS certificate: Not applicable
 - mTLS: Not applicable
 - Trust store: Not applicable

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#TargetGroupTargetGroupArn=arn:aws:elasticloadbalancing:us-east-1:970547351397:targetgroup/my-target-for-w1/19177c70520de82d

my-target-for-w1

Details

Target type: Instance, Protocol: HTTP, Port: 5000, Protocol version: HTTP1, VPC: vpc-050fa616b48555a3

IP address type: IPv4, Load balancer: my-load-balancer

1 Total targets	1 Healthy	0 Unhealthy	0 Unused	0 Initial	0 Draining
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0 Anomalous

Distribution of targets by Availability Zone (AZ)

Registered targets (1)

Instance ID	Name	Port	Zone	Health status	Health status details	Launch time	Anomaly detection...
i-06b71ac58c8b4e43		5000	us-east-1a	Healthy		October 14, 2024, 22:15 (UTC-05:00)	Normal

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchTemplateDetailsLaunchTemplateId=lt-02f5be16dffbaad13

my-launch-template (lt-02f5be16dffbaad13)

Launch template details

Launch template ID: lt-02f5be16dffbaad13, Launch template name: my-launch-template, Default version: 1, Owner: amawsiam:970547351397-root

Launch template version details

Version: 1 (Default), Description: -, Date created: 2024-10-15T03:11:46.000Z, Created by: amawsiam:970547351397-root

AMI ID: ami-06b21ccaeffc6586	Instance type: t2.micro	Availability Zone: -	Key pair name: new-key-for-computer-server-1
Security groups: -	Security group IDs: sg-015ca2daf3e951354		

MIU Global Online Education | x | simple-react-node-app/work | x | Instance details | EC2 | us-east | x | Sample Project | x | +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-06871ac58c8bc4e43

Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces

Load Balancing Load Balancers Target Groups

CloudShell Feedback

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10:45 PM 10/14/2024

Instance summary for i-06871ac58c8bc4e43

Updated less than a minute ago

Connect Instance state Actions

Instance ID i-06871ac58c8bc4e43	Public IPv4 address 18.232.146.164 open address	Private IPv4 addresses 172.31.3.50 Public IPv4 DNS ec2-18-232-146-164.compute-1.amazonaws.com open address
IPv4 address -	Instance state Running	
Hostname type IP name: ip-172-31-3-50.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-3-50.ec2.internal	
Answer private resource DNS name -	Instance type t2.micro	Elastic IP addresses -
Auto-assigned IP address 18.232.146.164 [Public IP]	VPC ID vpc-050fa616b485555a3	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
IAM Role -	Subnet ID subnet-0ea6203ff6d0517f1	Auto Scaling Group name my-auto-scaling-group
IMDSv2 Required	Instance ARN arn:aws:ec2:us-east-1:970547351397:instance/i-06871ac58c8bc4e43	

Details Status and alarms Monitoring Security Networking Storage Tags

Instance details

Platform Amazon Linux (Inferred)	AMI ID ami-06b21cae88c6d86	Monitoring disabled
Platform details Linux/UNIX	AMI name al2023-ami-2023.6.20241010.0-kernel-6.1-x86_64	Termination protection Disabled
Stop protection Disabled	Launch time Mon Oct 14 2024 22:15:44 GMT-0500 (Central Daylight Time) (29 minutes)	AMI location amazon/al2023-ami-2023.6.20241010.0-kernel-6.1-x86_64
Instance auto-recovery Default	Lifecycle normal	Stop-hibernate behavior Disabled
AMI Launch index 0	Key pair assigned at launch new-key-for-computer-server-1	State transition reason -

my-load-balancer-2118098291.us-east-1.elb.amazonaws.com/health

I am OK.

10:27 PM 10/14/2024

```
my-load-balancer-2118098291.us-east-1.elb.amazonaws.com/students
pretty-print
{
  "name": "Alice",
  "email": "alice@miu.edu",
  "id": "S180"
},
{
  "name": "Bob",
  "email": "bob@miu.edu",
  "id": "S181"
},
{
  "name": "Carol",
  "email": "carol@miu.edu",
  "id": "S182"
},
{
  "name": "David",
  "email": "david@miu.edu",
  "id": "S183"
},
{
  "name": "Eve",
  "email": "eve@miu.edu",
  "id": "S184"
},
{
  "name": "Frank",
  "email": "frank@miu.edu",
  "id": "S185"
},
{
  "name": "Grace",
  "email": "grace@miu.edu",
  "id": "S186"
},
{
  "name": "Hank",
  "email": "hank@miu.edu",
  "id": "S187"
},
{
  "name": "Ivy",
  "email": "ivy@miu.edu",
  "id": "S188"
},
{
  "name": "Jack",
  "email": "jack@miu.edu",
  "id": "S189"
}
```

2. Frontend Infrastructure: CloudFront, S3

us-east-1.console.aws.amazon.com/s3/buckets/workshop-1-bucket-today?region=us-east-1&bucketType=general&tab=objects

Amazon S3

workshop-1-bucket-today info

Objects (8) info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	asset-manifest.json	json	October 14, 2024, 22:30:03 (UTC-05:00)	517.0 B	Standard
<input type="checkbox"/>	favicon.ico	ico	October 14, 2024, 22:30:04 (UTC-05:00)	3.8 KB	Standard
<input type="checkbox"/>	index.html	html	October 14, 2024, 22:30:04 (UTC-05:00)	649.0 B	Standard
<input type="checkbox"/>	logo192.png	png	October 14, 2024, 22:30:02 (UTC-05:00)	5.2 KB	Standard
<input type="checkbox"/>	logo512.png	png	October 14, 2024, 22:30:02 (UTC-05:00)	9.4 KB	Standard
<input type="checkbox"/>	manifest.json	json	October 14, 2024, 22:30:03 (UTC-05:00)	517.0 B	Standard
<input type="checkbox"/>	robots.txt	txt	October 14, 2024, 22:30:03 (UTC-05:00)	70.0 B	Standard
<input type="checkbox"/>	static/	Folder	-	-	-

Alice - alice@miu.edu - S100
Bob - bob@miu.edu - S101
Carol - carol@miu.edu - S102
David - david@miu.edu - S103
Eve - eve@miu.edu - S104
Frank - frank@miu.edu - S105
Grace - grace@miu.edu - S106
Hank - hank@miu.edu - S107
Ivy - ivy@miu.edu - S108
Jack - jack@miu.edu - S109

CloudFront

Distros

Distributions

Policies

Functions

What's new

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Monitoring

Alarms

Logs

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Cache statistics

Popular objects

Top referers

Usage

Viewers

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Origin access

Field-level encryption

▼ Key management

Public keys

Key groups

▼ Savings Bundle

Overview

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CloudFront

Distributions

ETWERFSI8BAKA

View metrics

General

Security

Origins

Behaviors

Error pages

Invalidations

Tags

Details

Distribution domain name

c5shshonfrn2eo.cloudfront.net

ARN

arn:aws:cloudfront:970547351397:distribution/ETWERFSI8BAKA

Last modified

October 15, 2024 at 3:34:25 AM UTC

Settings

Edit

Description

Price class

Use all edge locations (best performance)

Supported HTTP versions

HTTP/2, HTTP/1.1, HTTP/1.0

Alternate domain names

Standard logging

Off

Cookie logging

Off

Default root object

index.html

Continuous deployment info

Create staging distribution

CloudShell

Feedback

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3. Deployed Website, showing the website running successfully in the browser.

