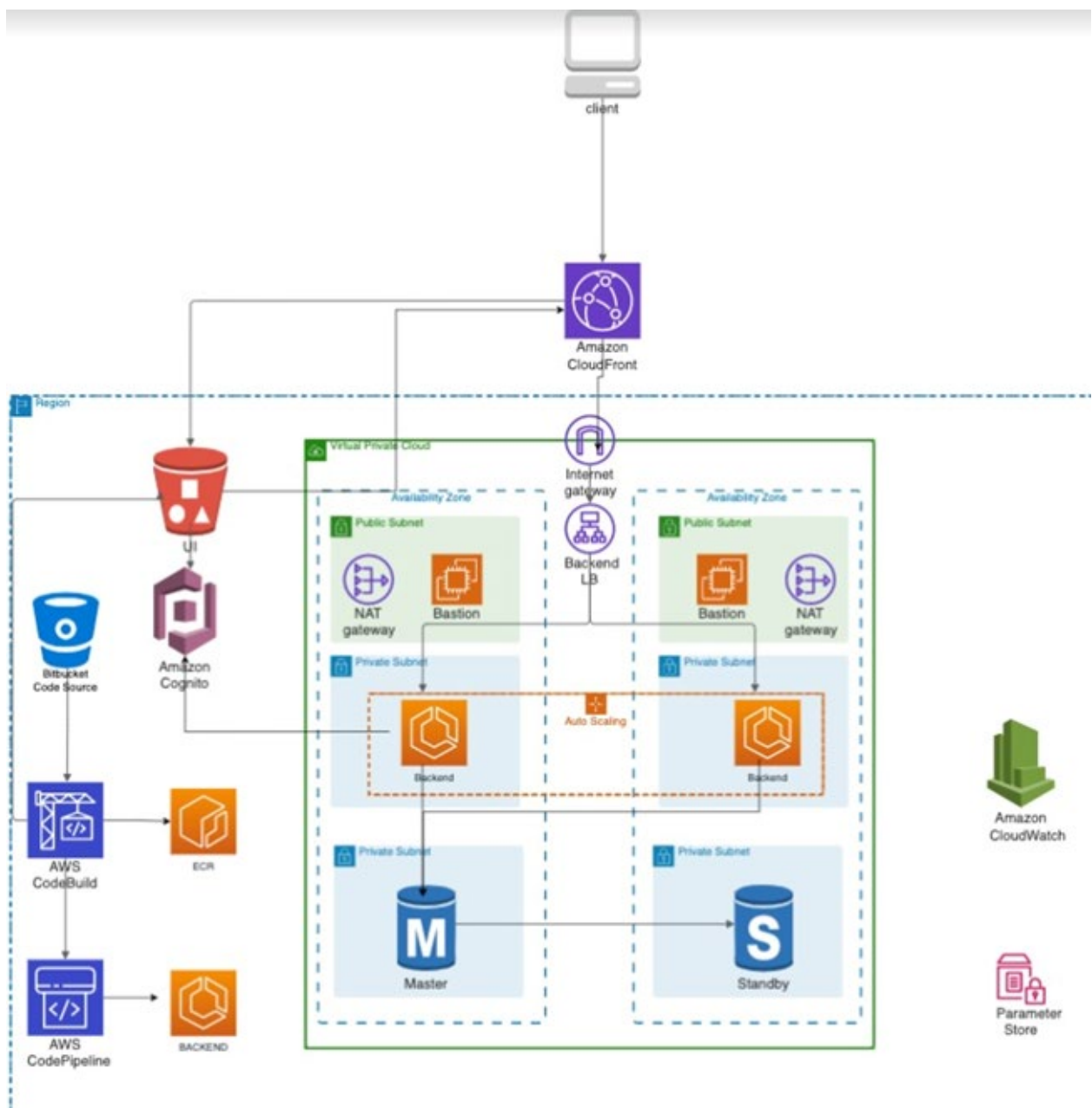


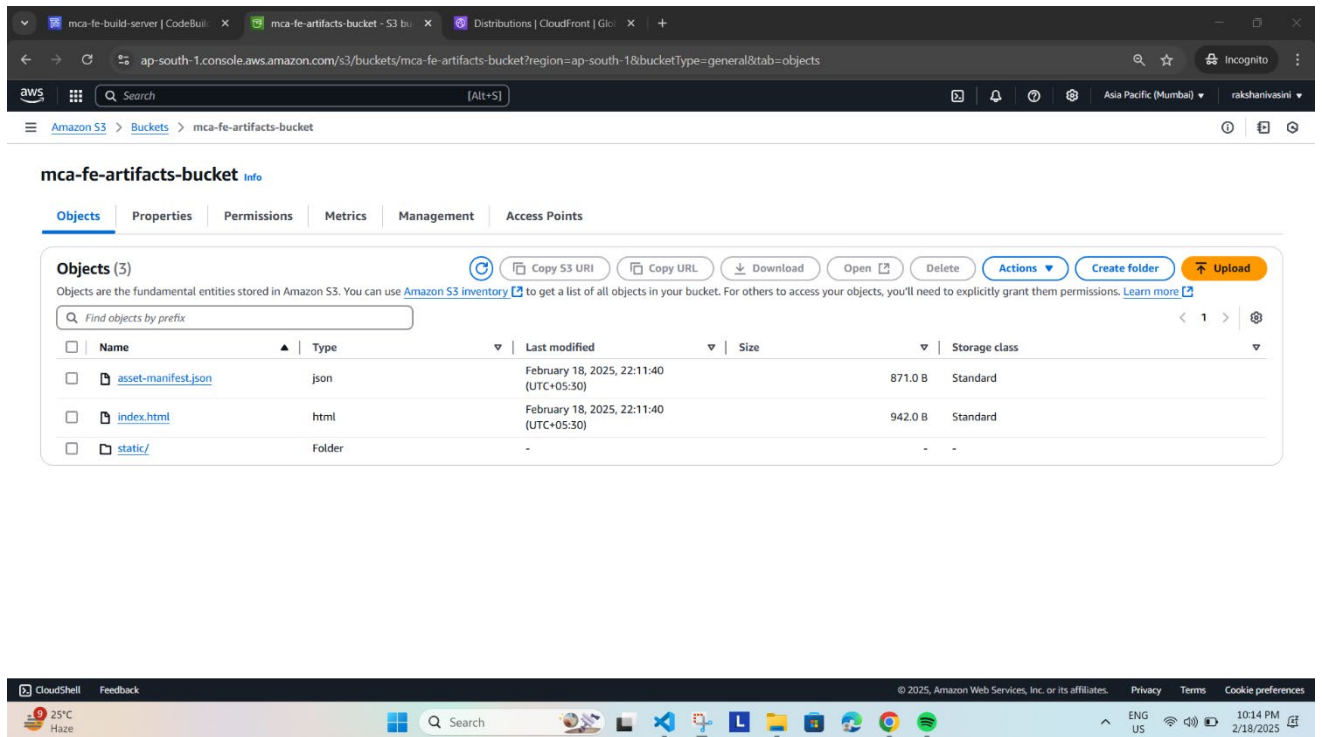
AWS ARCHITECTURE DIAGRAM



8. FORMS AND REPORT

SCREENSHOTS

S3



Browser tabs: mca-fe-build-server | CodeBuild, mca-fe-artifacts-bucket - S3 bu, Distributions | CloudFront | Glo, +

Address bar: ap-south-1.console.aws.amazon.com/s3/buckets/mca-fe-artifacts-bucket?region=ap-south-1&bucketType=general&tab=permissions

Navigation: Amazon S3 > Buckets > mca-fe-artifacts-bucket

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Public access is blocked because Block Public Access settings are turned on for this bucket
To determine which settings are turned on, check your Block Public Access settings for this bucket. [Learn more about using Amazon S3 Block Public Access](#)

```
{
  "Version": "2008-10-17",
  "Id": "PolicyForCloudFrontPrivateContent",
  "Statement": [
    {
      "Sid": "AllowCloudFrontServicePrincipal",
      "Effect": "Allow",
      "Principal": {
        "Service": "cloudfront.amazonaws.com"
      },
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3::mca-fe-artifacts-bucket/*",
      "Condition": {
        "StringEquals": {
          "AWS:SourceArn": "arn:aws:cloudfront::744628107553:distribution/EWYTIPOXN4B9"
        }
      }
    }
  ]
}
```

Buttons: Edit, Delete, Copy

Footer: CloudShell, Feedback, © 2025, Amazon Web Services, Inc. or its affiliates. Privacy, Terms, Cookie preferences

System tray: 25°C, Haze, Search, 10:15 PM, 2/18/2025

Cloudfront

The screenshot displays the AWS CloudFront console interface. The browser tabs at the top include 'mca-fe-build-server | CodeBuild', 'mca-fe-artifacts-bucket - S3 bu', and 'Distributions | CloudFront | Gl...'. The address bar shows the URL 'us-east-1.console.aws.amazon.com/cloudfront/v4/home?region=ap-south-1#/distributions/EWTIP0XN4B9'. The AWS logo and a search bar are visible in the top left. The main header shows the navigation path 'CloudFront > Distributions > EWTIP0XN4B9' and a 'View metrics' button. Below the header, there are tabs for 'General', 'Security', 'Origins', 'Behaviors', 'Error pages', 'Invalidations', 'Tags', and 'Logging'. The 'General' tab is active, showing the 'Details' section with the following information:

Details		
Distribution domain name d15h0ooulrooxi.cloudfront.net	ARN arn:aws:cloudfront::744628107553:distribution/EWTIP0XN4B9	Last modified February 18, 2025 at 4:24:47 PM UTC

Below the details section is the 'Settings' section, which includes an 'Edit' button. The settings are organized into three columns:

Settings		
Description -	Alternate domain names -	Standard logging Off
Price class Use all edge locations (best performance)		Cookie logging Off
Supported HTTP versions HTTP/2, HTTP/1.1, HTTP/1.0		Default root object index.html

At the bottom of the settings section is the 'Continuous deployment' section with an 'Info' link and a 'Create staging distribution' button. The footer of the console shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. The Windows taskbar at the bottom indicates the system temperature is 25°C, the time is 10:14 PM, and the date is 2/18/2025.

us-east-1.console.aws.amazon.com/cloudfront/v4/home?region=ap-south-1#/distributions/EWYTIP0XN4B9/invalidations

CloudFront > Distributions > EWYTIP0XN4B9

EWYTIP0XN4B9 [View metrics](#)

General Security Origins Behaviors Error pages **Invalidations** Tags Logging

Invalidations [View details](#) [Copy to new](#) [Create invalidation](#)

Filter invalidations by property or value

Invalidation ID	Status	Date created
IANIOFJ4L882HRXI3I1PL9HK3I	Completed	February 18, 2025 at 4:41:40 PM UTC

CloudShell Feedback © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 25°C Haze Search 10:19 PM 2/18/2025

CodeBuild

The screenshot displays the AWS CodeBuild console for a project named "mca-fe-build-server". The interface includes a top navigation bar with the AWS logo and a search bar. The main content area is divided into two sections: "Configuration" and "Build history".

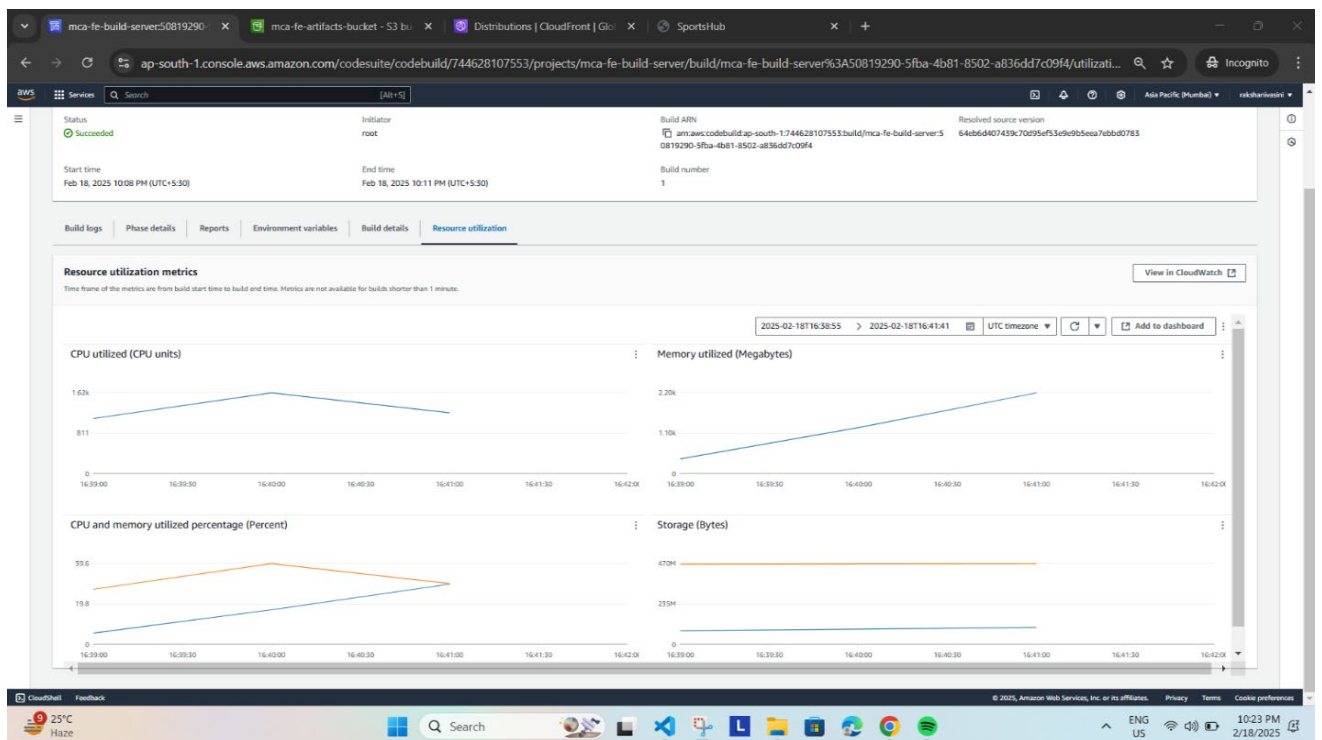
Configuration:

- Source provider: GitHub
- Primary repository: gitbhash07/mca-sportshub
- Artifacts upload location: -
- Service role: arn:awsiam:744628107553:role/service-role/codebuild-mca-fe-build-server-service-role1
- Public builds: Disabled

Build history:







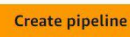
The build history section shows a table of build runs. The first build run is listed as "mca-fe-build-server:50819290-5fba-4b81-8502-a836dd7c09f4" with a status of "Succeeded". The build number is 1, the source version is "main", the submitter is "root", the duration is "2 minutes 46 seconds", and it was completed "1 minute ago".


Build run	Status	Build number	Source version	Submitter	Duration	Completed
mca-fe-build-server:50819290-5fba-4b81-8502-a836dd7c09f4	Succeeded	1	main	root	2 minutes 46 seconds	1 minute ago
















Pipelines:

Developer Tools > CodePipeline > Pipelines

Pipelines Info   Notify   View history  Release change  Delete pipeline  Create pipeline

< 1 > 

	Name	Latest execution status	Latest source revisions	Latest execution started	Most recent executions
<input type="radio"/>	mca-be-pipeline (Type: V2 Execution mode: QUEUED)	 Succeeded	Source – iClpXfgc: Amazon S3 version id: iClpXfgcOmjKUJdhN3VBb4rhN5rkUiI6	8 minutes ago	     View details
<input type="radio"/>	mca-fe-pipeline (Type: V2 Execution mode: QUEUED)	 Succeeded	Source – 77fb0c22  : security fix	2 months ago	     View details

ALB

[EC2](#) > Load balancers

Load balancers (1/1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

< 1 > ⚙️

<input checked="" type="checkbox"/>	Name	DNS name	State	VPC ID
<input checked="" type="checkbox"/>	mca-be	mca-be-2100595271.us-east-1.elb.amazonaws.com	Active	vpc-0b8ab94a3a1d81...

Load balancer: mca-be

A listener checks for connection requests on its configured protocol and port. Traffic received by the listener is routed according to the default action and any additional rules.

< 1 > ⚙️

<input type="checkbox"/>	Protocol:Port	Default action	Rules	ARN	Security policy	Default S
<input type="checkbox"/>	HTTP:80	Forward to target group <ul style="list-style-type: none">ecs-mca-be-backend-container: 1 (100%)Target group stickiness: Off	1 rule	ARN	Not applicable	Not applic

TG

IP address type
IPv4

Load balancer
[mca-be](#)

1 Total targets	<div><div>✓ 1</div><div>Healthy</div></div> <div>0 Anomalous</div>	<div><div>✗ 0</div><div>Unhealthy</div></div>	<div><div>⌚ 0</div><div>Unused</div></div>	<div><div>⌚ 0</div><div>Initial</div></div>	<div><div>⌚ 0</div><div>Draining</div></div>
--------------------	--	---	--	---	--

► Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

Targets

Monitoring

Health checks

Attributes

Tags

Registered targets (1) [Info](#)

Anomaly mitigation: Not applicable

↻

Deregister

Register targets

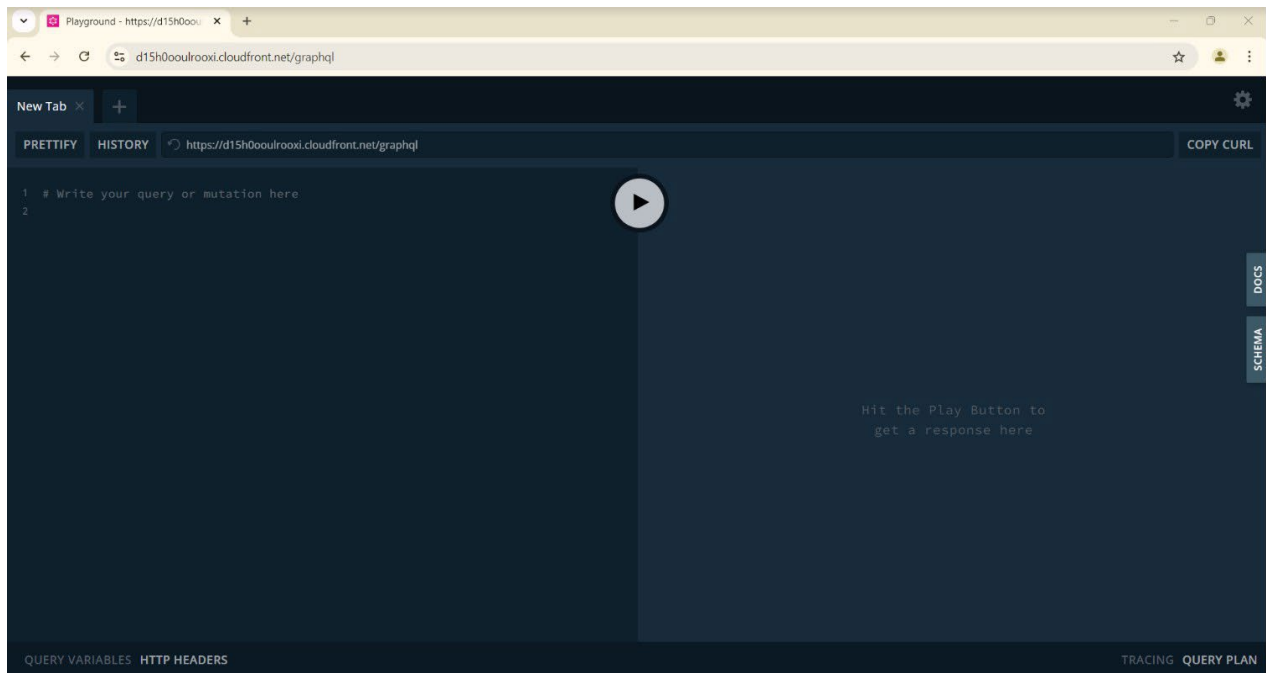
Target groups route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.

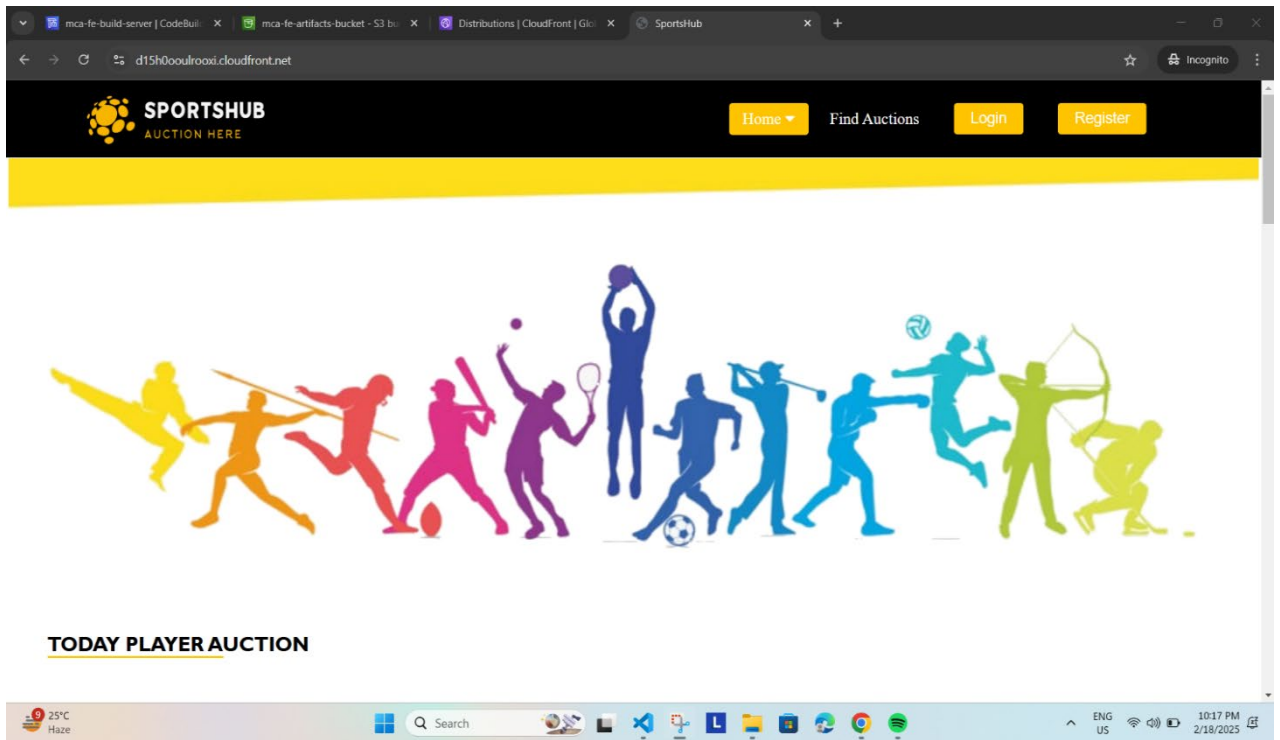
🔍 Filter targets

< 1 > ⚙️

<input type="checkbox"/>	IP address ▾	Port ▾	Zone ▾	Health status ▾	Health status details	Anomaly detection res... ▾
<input type="checkbox"/>	172.31.9.145	3000	us-east-1a	✓ Healthy	-	✓ Normal

Output:





ADVANCED AWS INTEGRATED CLOUD USING CDN

A PROJECT REPORT

**Submitted For the Partial Fulfilment of the Requirement for the Degree of
Master of Computer Applications**

By

RAKSHANIVASINI M

Roll. No. C23105PCA6043

Under the Guidance of

Dr. M. GANESH RAJA., MCA., M.Phil., Ph.D.,

Assistant Professor,

Department of Computer Science,

Dhanraj Baid Jain College

Thoraipakkam, Chennai - 97



INSTITUTE OF DISTANCE EDUCATION

UNIVERSITY OF MADRAS

CHENNAI - 600 005

DECEMBER 2024