

Project Documentation: AWS Cloud Infrastructure [V-Profile Project/Lift And Shift]

Date: December 22, 2025

Engineer: Abdullah Mudassar

Focus: DevOps / Cloud Administration

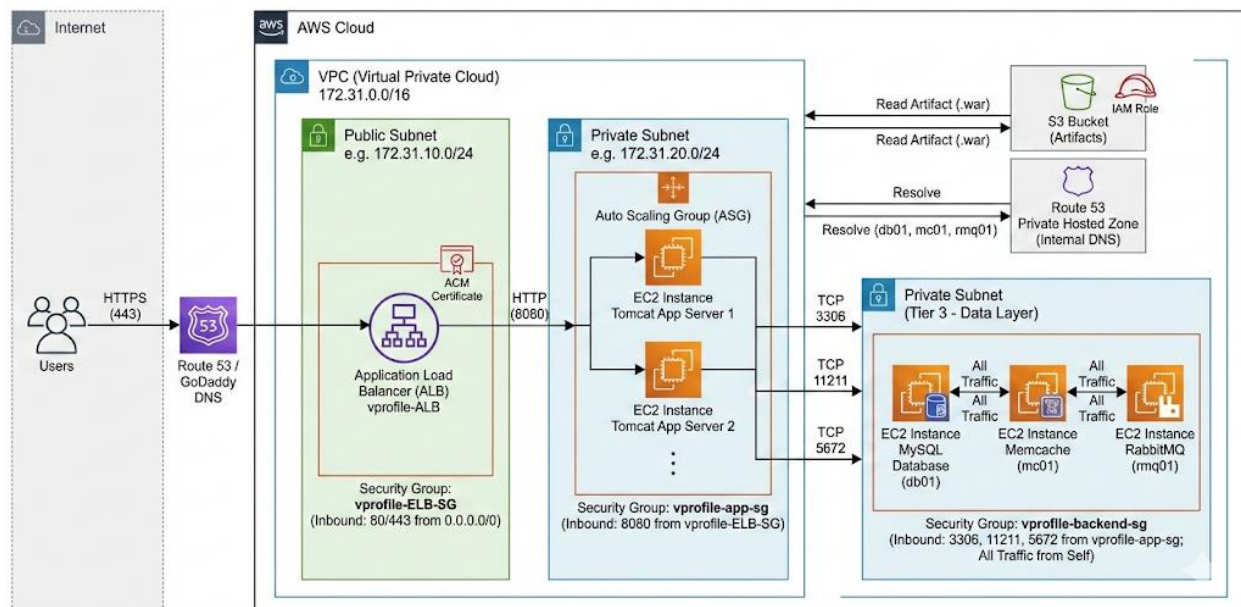
1. Project Introduction: vProfile Lift & Shift

The **vProfile** project is a production-level migration of a multi-tier Java web application stack. The goal is to move a complex environment consisting of a web server, application server, database, and messaging broker from a local environment to **AWS infrastructure**.

Instead of rewriting the application, we use a **Lift and Shift (Rehosting)** strategy. This approach allows a company to move to the cloud quickly to gain immediate benefits like **High Availability**, **Pay-as-you-go pricing**, and **Auto Scaling**, without the time-consuming process of changing the application code.

2. Technical Architecture Diagram

AWS vProfile Lift & Shift Architecture



3. Architecture Explanation (The Flow)

The architecture is divided into three distinct layers to ensure security and performance:

Tier 1: The User & Public Access (Web Tier)

- **DNS (GoDaddy/Route 53):** The user enters your website URL. DNS translates this URL into the address of your **Application Load Balancer (ALB)**.
- **Load Balancer (ALB):** This is the entry point. It receives traffic on **Port 443 (HTTPS)**. It uses an SSL certificate from **AWS Certificate Manager (ACM)** to ensure the connection is encrypted and secure.

Tier 2: The Application Logic (App Tier)

- **Tomcat Servers:** Your Java code runs here on **EC2 instances**.
- **Auto Scaling Group (ASG):** These servers aren't static. If 1,000 users visit at once, the ASG automatically adds more Tomcat servers. If the traffic drops, it removes them to save money.
- **Port 8080:** The Load Balancer talks to Tomcat specifically on this port.


Tier 3: The Data & Support Services (Backend Tier)


- **MySQL (DB):** The relational database where all user data is stored (**Port 3306**).
- **Memcached:** A caching service that stores frequent data in memory so the app doesn't have to keep asking the database, making the site faster (**Port 11211**).
- **RabbitMQ:** A message broker that helps different parts of the application talk to each other without getting overwhelmed (**Port 5672**).
- **Route 53 (Private Zone):** An internal "phonebook" that lets the Tomcat servers find the Backend servers using names (like db01.vprofile.local) instead of IP addresses.


The Security Shield (Security Groups)


- Each tier has its own **Security Group (Firewall)**.
- The **Backend Tier** is completely hidden from the internet. It will **only** accept requests if they come directly from the **App Tier**. This is the core of cloud security.


1. CREATING SECURITY GROUPS:

Security group name
 vprofileBackendSecurityGroup

Security group ID
 sg-08593f92205e75822

Description
 SecurityGroup for mysql memcached and rabbitmq allowed from tomcat app server

VPC ID
[vpc-0e4b07304bf1d8739](#) 


Owner
 682983208880

Inbound rules count
6 Permission entries

Outbound rules count
1 Permission entry

- Inbound rules
- Outbound rules
- Sharing
- VPC associations
- Tags

Inbound rules (6)

 [Manage tags](#) [Edit inbound rules](#)

☐

Name

☐

Security group rule ID

☐

IP version

☐

Type

☐


Protocol


☐


Port range


☐


<input type="checkbox"/>	-	sgr-02c39c9818d3f8049	-		MYSQL/Aurora	TCP	3306
<input type="checkbox"/>	-	sgr-0d5813239000c6848	-		All traffic	All	All
<input type="checkbox"/>	-	sgr-05a1b941a3d78804f	-		Custom TCP	TCP	11211
<input type="checkbox"/>	-	sgr-0b7824ebcc4c676c4	-		Custom TCP	TCP	5672
<input type="checkbox"/>	-	sgr-0d711caa170f7204c	IPv4		SSH	TCP	22
<input type="checkbox"/>	-	sgr-0e14d38d36006f083	-		All traffic	All	All


sg-057dae476566676da	vprofile-ELB-sg	vpc-0e4b07304bf1d8739 	Security group for the vProfile Load Balancer	682983208880
sg-08593f92205e75822	VprofileBackendSecurityGroup	vpc-0e4b07304bf1d8739 	SecurityGroup for mysql memcached and rabbitmq	682983208880
sg-0227c12dd804450f6	Vprofile-App-sg	vpc-0e4b07304bf1d8739 	SecurityGroup for Tomcat App server	682983208880

Security group name
 vprofile-ELB-sg

Security group ID
 sg-057dae476566676da

Description
 Security group for the vProfile Load Balancer

VPC ID
[vpc-0e4b07304bf1d8739](#) 


Owner
 682983208880

Inbound rules count
4 Permission entries

Outbound rules count
0 Permission entries

- Inbound rules
- Outbound rules
- Sharing
- VPC associations
- Tags

Inbound rules (4)

 [Manage tags](#) [Edit inbound rules](#)

☐

Name

☐

Security group rule ID

☐

IP version

☐

Type

☐

Protocol

☐

Port range

☐

<input type="checkbox"/>	-	sgr-027581a54b0e6befe	IPv6		HTTP	TCP	80
<input type="checkbox"/>	-	sgr-0238bb7bc95ebc8bc	IPv4		HTTP	TCP	80
<input type="checkbox"/>	-	sgr-0067ebaa6872a2aa0	IPv4		HTTPS	TCP	443
<input type="checkbox"/>	-	sgr-0465bb5685b41d53a	IPv6		HTTPS	TCP	443

sg-0227c12dd804450f6 - Vprofile-App-sg

Actions ▾

Details

Security group name

Vprofile-App-sg

Security group ID

sg-0227c12dd804450f6

Description

SecurityGroup for Tomcat App server

VPC ID

vpc-0e4b07304bf1d8739 [↗](#)

Owner

682983208880

Inbound rules count

2 Permission entries

Outbound rules count

1 Permission entry

Inbound rules

Outbound rules

Sharing

VPC associations

Tags

Inbound rules (2)



Manage tags

Edit inbound rules

Q Search

Security group rule ID ▾	IP version ▾	Type ▾	Protocol ▾	Port range ▾	Source ▾	Description
sgr-0517ee13c15c6cc92	-	Custom TCP	TCP	8080	sg-057dae476566676d...	Allow...
sgr-0fd49a1a78e26628e	IPv4	SSH	TCP	22	202.77.139.105/32	-

2. Creating Key Pairs:

Key pairs (5) Info



Actions ▾

Create key pair

Q Find Key Pair by attribute or tag

< 1 >

<input type="checkbox"/>	Name	Type ▾	Created	Fingerprint	ID
<input type="checkbox"/>	Vprofile-prod-key	rsa	2025/12/22 00:11 GMT+5	07:10:2e:5e:a2:99:af:98:cc:38:a9:e9:...	key-03ce92ca9a1d7b529

3. Creating Ec2 Instances With user Data Scripts :

Instances (4) Info

Last updated
less than a minute ago

Connect

Instance state ▾

Actions ▾

Launch instances ▾

Q Find Instance by attribute or tag (case-sensitive)

All states ▾

< 1 >

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input type="checkbox"/>	Vprofile-db01	i-0c3594cc01f4422a9	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1c	ec2-34-229
<input type="checkbox"/>	Vprofile-mc01	i-06a453b0821b5a035	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1c	ec2-54-160
<input type="checkbox"/>	Vprofile-app01	i-0f3db3e41e81228d7	Running	t3.micro	Initializing	View alarms +	us-east-1c	ec2-54-242
<input type="checkbox"/>	Vprofile-rmq01	i-02b0732824e12124a	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1c	ec2-13-220

Select an instance

Create hosted Zone Using Route53:

Search

[Alt+S]

Global

jhonnydevops (6829-8320-8880)

JhonnyAdmin

Hosted zones

Hosted zones (1)

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

Filter records by property or value

< 1 >

	Hosted zone name	Type	Create...	Record ...	Descrip...	Hosted zone ID
<input type="radio"/>	vprofile.in	Private	Route 53	2	-	Z0703752CCKXW2FAA0SW

View details

Edit

Delete

Create hosted zone

Feedback

Console Mobile App

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INTERNAL DNS RESOLUTION(Create a Record):

Route 53 propagates your changes to all of the Route 53 authoritative DNS servers within 60 seconds. Use "View status" button to check propagation status.

Records (5)

Automatic mode is the current search behavior optimized for best filter results. [To change modes go to settings.](#)

Filter records by property or value

Type

Routing p...

Alias

< 1 >

	Record ...	Type	Routin...	Differ...	Alias	Value/Route traffic to
<input type="checkbox"/>	db01.vprofile...	A	Simple	-	No	172.31.23.148
<input type="checkbox"/>	mc01.vpr...	A	Simple	-	No	172.31.26.102
<input type="checkbox"/>	rmq01.vpr...	A	Simple	-	No	172.31.27.95

Delete record

Import zone file

Create record

0 records selected

Select a record to see its details

Checking Connection:

ubuntu@ip-172-31-21-16: ~

ping -c 4 db01.vprofile.in

PING db01.vprofile.in (172.31.23.148) 56(84) bytes of data.

64 bytes from ip-172-31-23-148.ec2.internal (172.31.23.148): icmp_seq=1 ttl=127 time=0.676 ms

64 bytes from ip-172-31-23-148.ec2.internal (172.31.23.148): icmp_seq=2 ttl=127 time=0.173 ms

64 bytes from ip-172-31-23-148.ec2.internal (172.31.23.148): icmp_seq=3 ttl=127 time=0.157 ms

64 bytes from ip-172-31-23-148.ec2.internal (172.31.23.148): icmp_seq=4 ttl=127 time=0.179 ms

--- db01.vprofile.in ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3075ms

rtt min/avg/max/mdev = 0.157/0.296/0.676/0.219 ms

Creating S3 Bucket:

Successfully created bucket "vprofile-las-artifact0193"
To upload files and folders, or to configure additional bucket settings, choose View details.

General purpose buckets

All AWS Regions

Directory buckets

General purpose buckets (1)

Info

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

< 1 >

Name	AWS Region	Creation date
vprofile-las-artifact0193	US East (N. Virginia) us-east-1	December 22, 2025, 17:31:05 (UTC+05:00)

Account snapshot

Info

View dashboard

Updated daily

Storage Lens provides visibility into storage usage and activity trends.

External access summary - new

Info

Updated daily

External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.

CloudShell

Feedback

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18°C

Partly cloudy

Search

5:31 PM

12/22/2025

Create IAM user :

us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users

BrainBashers - Daily...

Search

Global

jhonydevops (6829-8320-8880)

jhonyAdmin

IAM

Users

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

Users (2)

Info

Delete

Create user

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Search

< 1 >

User name	Path	Group	Last activity	MFA	Password age	Console last sign-in	Acc
vprofile-s3-admin	/	0	-	-	-	-	Act

Attach policies:

Permissions

Groups

Tags

Security credentials

Last Accessed

Permissions policies (1)

Remove

Add permissions

Permissions are defined by policies attached to the user directly or through groups.

Filter by Type

Search

All types

< 1 >

Policy name	Type	Attached via
AmazonS3FullAccess	AWS managed	Directly

Permissions boundary (not set)

Generate policy based on CloudTrail events

Create access key with the new user :

Access keys (1)

[Create access key](#)

Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time. [Learn more](#)

AKIAZ6BHYW6YBJZRTKHR

Description

-

Last used

None

Last used region

N/A

Status

Active

Created

3 minutes ago

Last used service

N/A

Actions

Create a Role with s3 full access permission:

The screenshot displays the AWS IAM console interface for a role named 's3-admin'. The role is described as 'Allows EC2 instances to call AWS services on your behalf.' The 'Summary' section shows the role's ARN as 'arn:aws:iam::682983208880:role/s3-admin', its creation date as 'December 22, 2025, 17:53 (UTC+05:00)', and its instance profile ARN as 'arn:aws:iam::682983208880:instance-profile/s3-admin'. The 'Permissions' tab is selected, showing one policy named 'AmazonS3FullAccess' attached to the role. The interface includes a search bar, navigation links, and various action buttons like 'Delete', 'Edit', 'Simulate', and 'Add permissions'.

s3-admin Info [Delete](#)

Allows EC2 instances to call AWS services on your behalf.

Summary [Edit](#)

Creation date: December 22, 2025, 17:53 (UTC+05:00)

ARN: [arn:aws:iam::682983208880:role/s3-admin](#)

Instance profile ARN: [arn:aws:iam::682983208880:instance-profile/s3-admin](#)

Last activity: -

Maximum session duration: 1 hour

Permissions | Trust relationships | Tags | Last Accessed | Revoke sessions

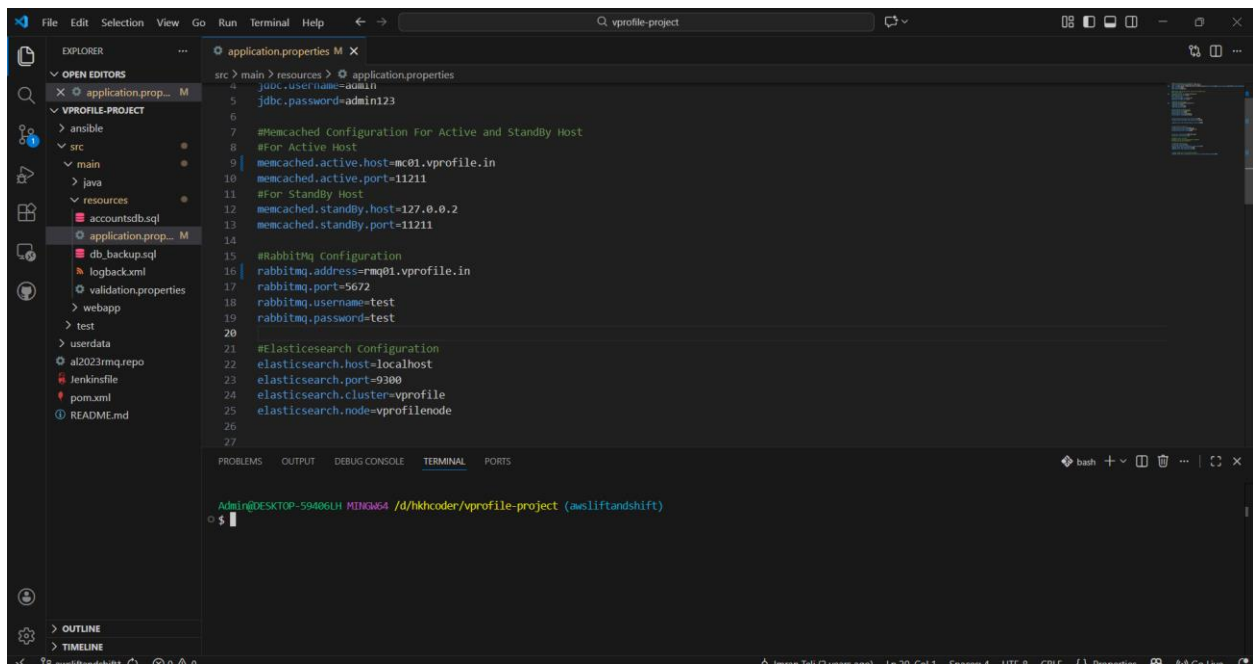
Permissions policies (1) Info [Simulate](#) [Remove](#) [Add permissions](#)

You can attach up to 10 managed policies.

Filter by Type: All types

Policy name	Type	Attached entities
AmazonS3FullAccess	AWS managed	2

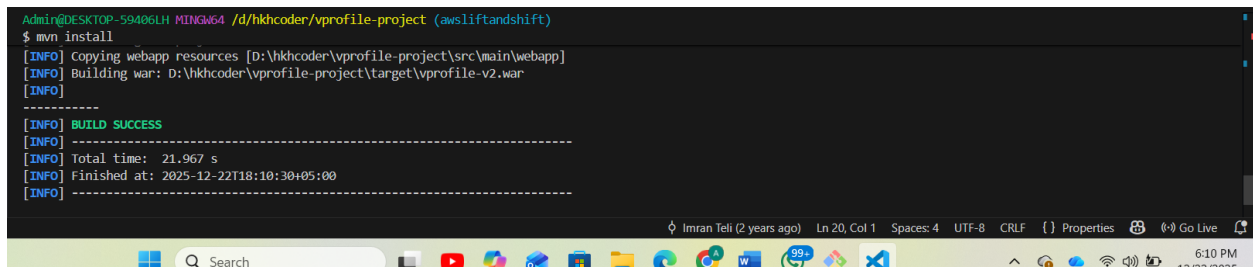
Opening a terminal:



Verifying maven and AWS :



Running a mvn install Command to build Artifact:



(note: after building configure aws using aws configure)

Pushing Artifact to s3 bucket:


```
Admin@DESKTOP-59406LH MINGW64 /d/hkhcoder/vprofile-project (awsliftandshift)
$ aws s3 cp target/vprofile-v2.war s3://vprofile-las-artifact0193/
upload: target\vprofile-v2.war to s3://vprofile-las-artifact0193/vprofile-v2.war

Admin@DESKTOP-59406LH MINGW64 /d/hkhcoder/vprofile-project (awsliftandshift)
$
```

```
Admin@DESKTOP-59406LH MINGW64 /d/hkhcoder/vprofile-project (awsliftandshift)
$ aws s3 ls s3://vprofile-las-artifact0193/
2025-12-22 18:29:56 83278595 vprofile-v2.war

Admin@DESKTOP-59406LH MINGW64 /d/hkhcoder/vprofile-project (awsliftandshift)
$
```

Imran Irfan (1 year ago) · 1m 28s Col 45 · Spaces: 4 · UTF-8 · CR LF · 1 · Properties · Go to Live

(Note: ssh app instance)

Install AWS CLI:

```
root@ip-172-31-21-16: ~
root@ip-172-31-21-16:~# snap install aws-cli --classic
aws-cli (v2/stable) 2.32.21 from Amazon Web Services (aws✓) installed
root@ip-172-31-21-16:~#
```

Copying Artifact from S3 bucket:

```
root@ip-172-31-21-16:~# aws s3 cp s3://vprofile-las-artifact0193/vprofile-v2.war /tmp/
download: s3://vprofile-las-artifact0193/vprofile-v2.war to ../tmp/vprofile-v2.war
root@ip-172-31-21-16:~# |
```

Stopping Tomcat service

```
root@ip-172-31-21-16:~# systemctl stop tomcat10
Warning: The unit file, source configuration file or drop-ins of tomcat10.service changed on disk. Run
'systemctl daemon-reload' to reload units.
root@ip-172-31-21-16:~# systemctl daemom-reload
Unknown command verb 'daemom-reload', did you mean 'daemon-reload'?
root@ip-172-31-21-16:~# systemctl daemon-reload
root@ip-172-31-21-16:~# |
```

Manual Deployment and Hot-Swapping of vProfile Artifact to Tomcat Application Server:

```
root@ip-172-31-21-16: ~  
root@ip-172-31-21-16:~# ls /var/lib/tomcat10/webapps/  
ROOT  
root@ip-172-31-21-16:~# rm -rf /var/lib/tomcat10/webapps/ROOT  
root@ip-172-31-21-16:~# cp /tmp/vprofile-v2.war /var/lib/tomcat10/webapps/ROOT.war  
root@ip-172-31-21-16:~# systemctl start tomcat10  
root@ip-172-31-21-16:~# ls /var/lib/tomcat10/webapps/  
ROOT ROOT.war  
root@ip-172-31-21-16:~# |
```

Adding rule to check app is running:

The screenshot shows the 'Add rule' dialog in the AWS IAM console. The dialog is titled 'Inbound rule 3' and has a 'Delete' button in the top right corner. The 'Security group rule ID' field is empty. The 'Type' dropdown is set to 'Custom TCP'. The 'Protocol' dropdown is set to 'TCP'. The 'Port range' field is set to '8080'. The 'Source type' dropdown is set to 'My IP'. The 'Source' field is set to '157.20.146.232/32'. There is a search icon and a close icon (X) next to the source field. The 'Description - optional' field is empty. At the bottom of the dialog, there is an 'Add rule' button. Below the dialog, there are three buttons: 'Cancel', 'Preview changes', and 'Save rules'. The footer of the console shows 'CloudShell', 'Feedback', 'Console Mobile App', 'Privacy', 'Terms', 'Cookie preferences', and a copyright notice for Amazon Web Services, Inc. or its affiliates.

Inbound rule 3 [Delete](#)

Security group rule ID: -

Type: [Info](#) Custom TCP ▼

Protocol: [Info](#) TCP

Port range: [Info](#) 8080

Source type: [Info](#) My IP ▼

Source: [Info](#) 157.20.146.232/32 X

Description - optional: [Info](#)

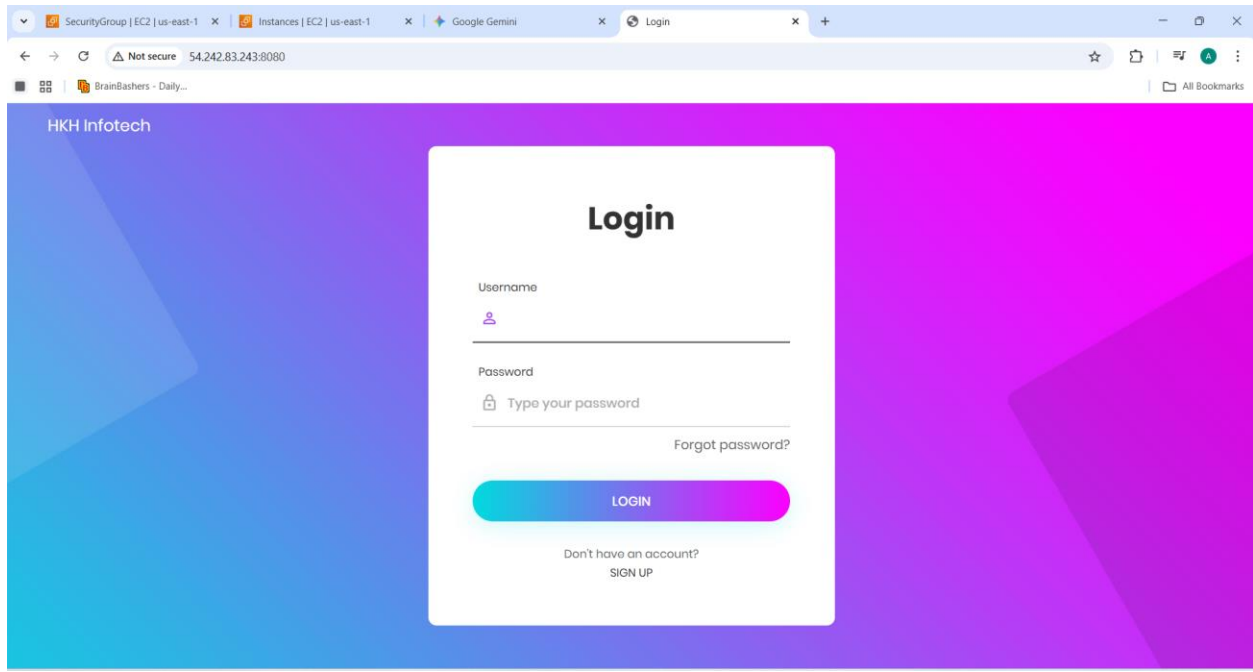
[Add rule](#)

[Cancel](#) [Preview changes](#) [Save rules](#)

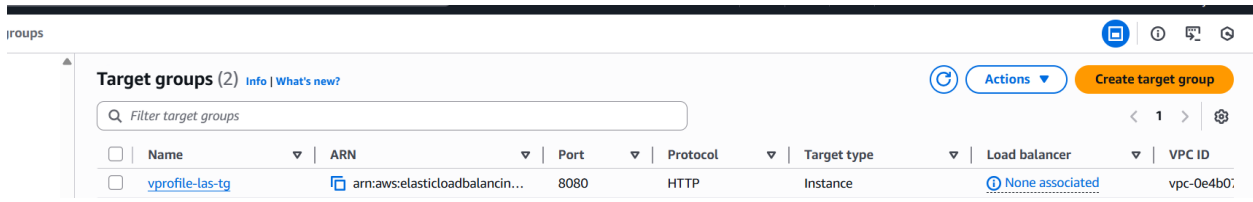
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Accessing App from public app for verification:



Creating Target Group:



Creating Load Balancer And adding Acme certificate:

Default SSL/TLS server certificate

The certificate used if a client connects without SNI protocol, or if there are no matching certificates. You can source this certificate from AWS Certificate Manager (ACM), Amazon Identity and Access Management (IAM), or import a certificate. This certificate will automatically be added to your listener certificate list.

Certificate source

☒ From ACM ☐ From IAM

☐ Import certificate

Certificate (from ACM)

The selected certificate will be applied as the default SSL/TLS server certificate for this load balancer's secure listeners.

*.achaudhry.online
00047b6b-517e-4efd-ac9...

[Request new ACM certificate](#)

Client certificate handling | [Info](#)

Client certificates are used to make authenticated requests to remote servers. [Learn more](#)

☐ **Mutual authentication (mTLS)**

Mutual TLS (Transport Layer Security) authentication offers two-way peer authentication. It adds a layer of security

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Load balancers (1) [What's new?](#)

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

Filter load balancers

<input type="checkbox"/>	Name	State	Type	Scheme	IP address type	VPC ID	Availability Zones
<input type="checkbox"/>	vprofile-las0-alb	Provisioning...	application	Internet-facing	IPv4	vpc-0e4b07304bf1d8739	6 Availability Zones

0 load balancers selected

Select a load balancer above.

Console Mobile App

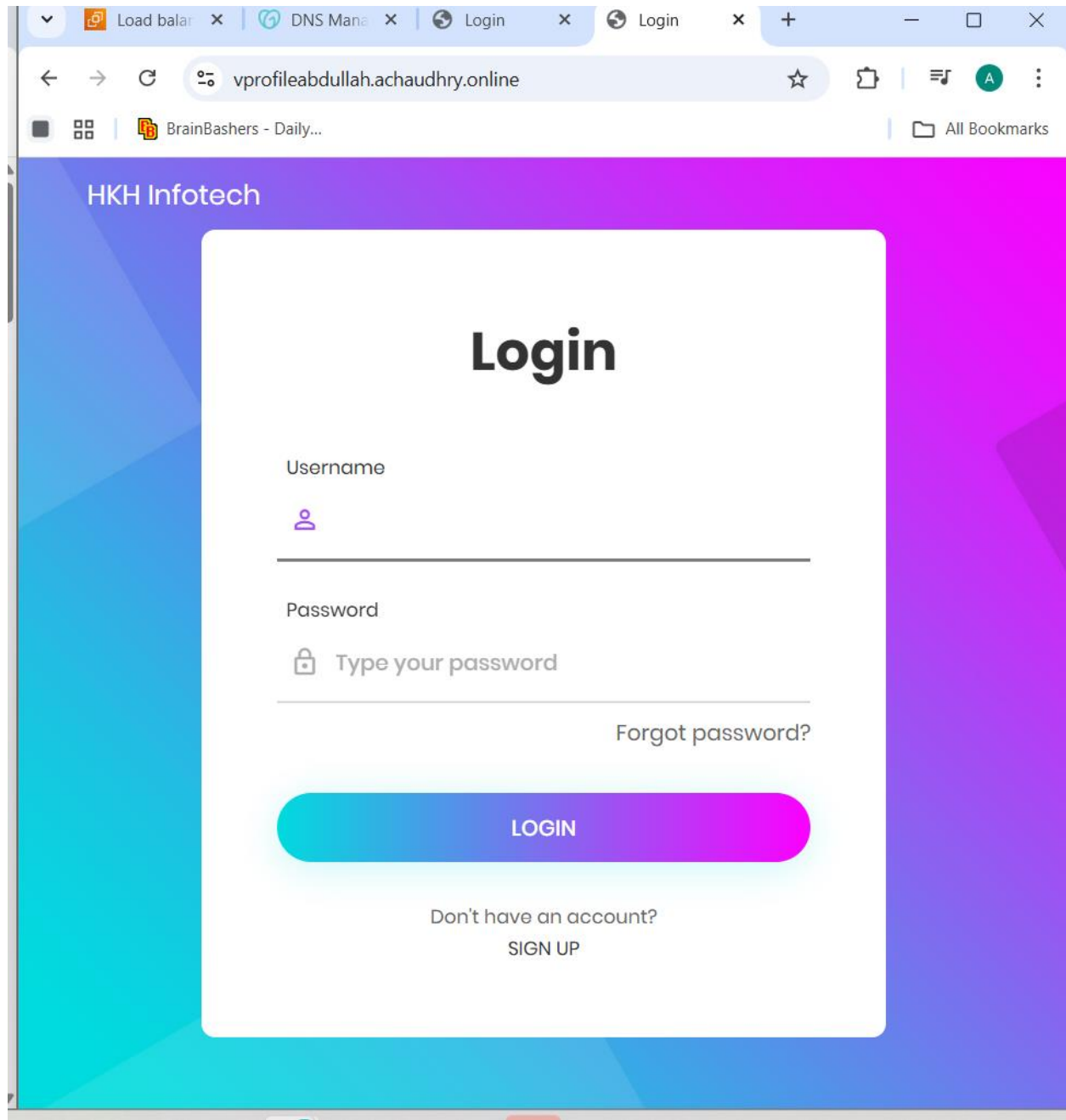
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Adding Load Balancers DNS name in our domain Record:

(Note: Iam using GoDaddy)

	CNAME	vprofileabdullah	vprofile-las0-alb-1574271398.us-east-1.elb.amazonaws.com.	1 Hour		
--	-------	------------------	---	--------	--	--

Accessing app with our own url:





Security



vprofileabdullah.achaudhry.online



Connection is secure

Your information (for example, passwords or credit card numbers) is private when it is sent to this site. [Learn more](#)



Certificate is valid



Username



Type your username

Password



Type your password

[Forgot password?](#)

Certificate Viewer: *.achaudhry.online

General

Details

Issued To

Common Name (CN)

Organization (O)

Organizational Unit (OU)

*.achaudhry.online

<Not Part Of Certificate>

<Not Part Of Certificate>

Issued By

Common Name (CN)

Organization (O)

Organizational Unit (OU)

Amazon RSA 2048 M04

Amazon

<Not Part Of Certificate>

Validity Period

Issued On

Expires On

Thursday, October 30, 2025 at 5:00:00 AM

Sunday, November 29, 2026 at 4:59:59 AM

SHA-256 Fingerprints

Certificate

Public Key

e705269030bfd2014cc596b09493302b1c28bb4426f0ba670cde49c9c72c9184

cd61b73b3d3ab1285e465f989fb0a2b75663d3fdbaf7d43be6182fa2a9679c6a

All Bookmarks

Listeners and rules (2) Info

Manage rules

Manage listener

Add listener

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.

Filter listeners

< 1 >

▼

Default action

▼

Rules

▼

ARN

▼

Security policy

▼

Default SSL/TLS certificate

▼

mTLS

• Forward to target group

vprofile-las-tg

1 (100%)

Target group stickiness: Off

1 rule

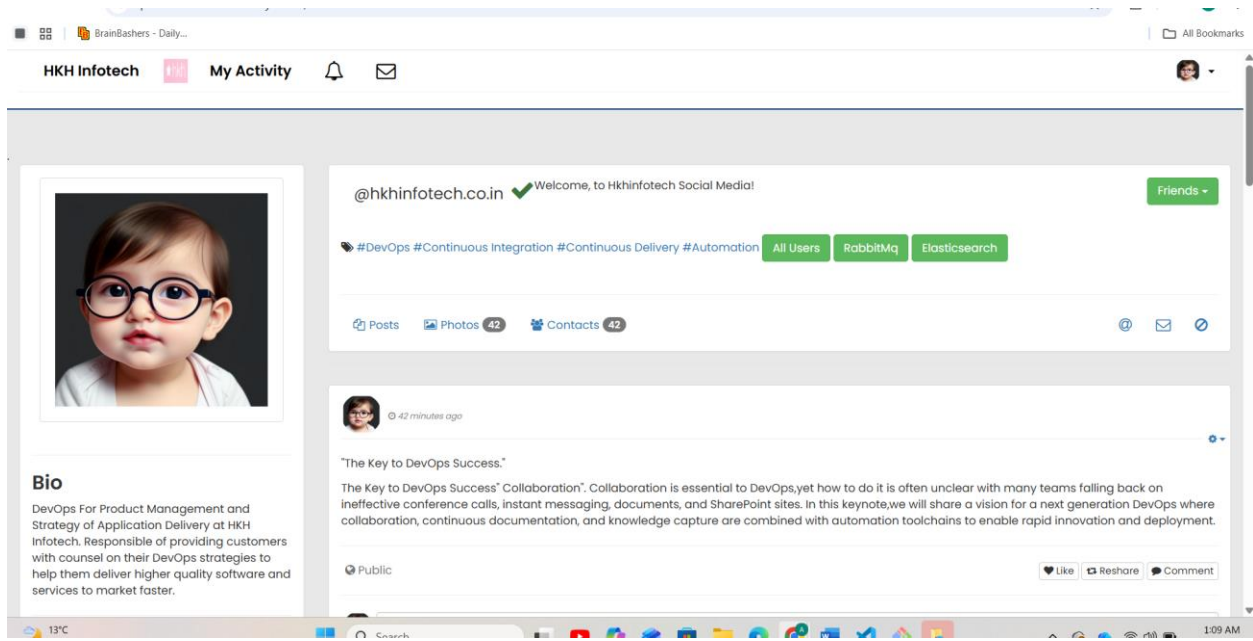
ARN

ELBSecurityPolicy-TLS13-1-2-...

*.achaudhry.online (Certificate ...

Off

Logging to verify Database Connection:



Verifying Memcached Working :

vpprofileabdullah.achaudhry.online/users

HKH Infotech Login Sign up

Users List

User Name	User Id
Hibo Prince	4
Aejaz Habeeb	5
Jackie	6
admin_vp	7
Abrar Nirban	8
Amayra Fatima	9
Aron	10
Kiran Kumar	11
Ralbir Singh	12

[Data is From Cache] [Back](#)

User Primary Details

Id	Name	Father's Name	Mother's Name	Email	Phone Number
4	Hibo Prince	Abara	Queen	hibo.prince@gmail.com	9146389863

User Extra Details

Date Of Birth	Gender	Marital Status	Permanent Address	Temporary Address	Primary Occupation	Secondary Occupation	Skills	Secondary PhoneNumber	Nationality	Language	Working Experience
6/09/2000	male	unMarried	Electronic City,UAE	Electronic City,UAE	Tester	Freelancing	Python PHP	9146389871	Indian	hindi	3

[Data is From DB and Data Inserted In Cache !!] [Back](#)

User Primary Details

Id	Name	Father's Name	Mother's Name	Email	Phone Number
4	Hibo Prince	Abara	Queen	hibo.prince@gmail.com	9146389863

User Extra Details

Date Of Birth	Gender	Marital Status	Permanent Address	Temporary Address	Primary Occupation	Secondary Occupation	Skills	Secondary PhoneNumber	Nationality	Language	Working Experience
6/09/2000	male	unMarried	Electronic City,UAE	Electronic City,UAE	Tester	Freelancing	Python PHP	9146389871	Indian	hindi	3

Process to configure autoscaling group:

1. First we need Ami of the instance
2. Launch Template
3. Auto scalling group

AMI created of app01 instance:

BrainBashers - Daily...

Search [Alt+S]

United States (N. Virginia) jhonnydevops (6829-8320-8880) jhonnyAdmin

EC2 > AMIs

Amazon Machine Images (AMIs) (1/3) Info

Owned by me Find AMI by attribute or tag

Recycle Bin EC2 Image Builder Actions Launch instance from AMI

	Name	AMI name	AMI ID	Source	Owner	Visibility
<input checked="" type="checkbox"/>	vprofile...	vprofile-las-app-ami	ami-02efb1e266509a2eb	682983208880/vprofile-las-app-ami	682983208880	Private

Create Launch Template:

Launch Templates (1/1) Info

Search

vprofile Clear filters

Actions Create launch template

	Launch Template ID	Launch Template Name	Default Version	Latest Version	Create Time	Created By
<input checked="" type="checkbox"/>	lt-058c368d6f523eb79	vprofile-las-app-lt	1	1	2025-12-23T13:30:05.000Z	arn:aws:iam::682983

Created auto Scaling Group:

vprofile-las-app-asg, 1 Scaling policy, 1 Notification created successfully

Auto Scaling groups (1/2) Info

Last updated 3 minutes ago Launch configurations Launch templates Actions Create Auto Scaling group

Search your Auto Scaling groups

	Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max
<input checked="" type="checkbox"/>	vprofile-las-app-asg	vprofile-las-app-lt Version Default	1	-	1	1	4

Enable stickiness on auto scaling Group:

aws Search [Alt+S]

United States (N. Virginia) jho

EC2 > Target groups > vprofile-las-tg > Edit target group attributes

or the targets vary in processing capability. Not compatible with the **Slow start duration** attribute.

☐ **Weighted random**
Weighted random routes requests evenly across healthy targets, in a random order. While Anomaly detection is applied by default, you must turn on **Anomaly mitigation** for Automatic Target Weights (ATW) to apply.

Slow start duration
Slow start duration is used to specify a period of time where newly registered targets are placed in slow start mode and receive a lower number of requests, giving them time to ramp up. When the slow start duration expires, the load balancer can send the target a full share of requests.

seconds
30-900 seconds or 0 to disable. Not compatible with the **Least outstanding requests** and **Weighted random** routing algorithms.

Target selection configuration

Stickiness Info
Stickiness allows the load balancer to bind a user's session to a specific target within the target group. The stickiness type differs based on the type of cookie used.

☒ **Turn on stickiness**
Not compatible with the **Weighted random** routing algorithm. Can't be turned on if **Cross-zone** load balancing is off.

Stickiness type

☒ **Load balancer generated cookie**
☐ **Application-based cookie**

Stickiness duration **Unit of time**

Deregister target App01 from Target Group and delete app01 instance to to AutoScalingGroup to handle:

Target group: vprofile-las-tg

Target groups have requests to maintain 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

<input type="checkbox"/>	Instance ID	Name	Port	Zone	Health status	Health status details	Admini...	Overri...
<input type="checkbox"/>	i-0d66d5b830b19f2bf	vprofile-app	8080	us-east-1c (use...	Healthy	-	No override.	No over
<input checked="" type="checkbox"/>	i-0f3db3e41e81228d7	Vprofile-app01	8080	us-east-1c (use...	Draining	Target deregistration i...	No override.	No over

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

BrainBashers - Daily...

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United States (N. Virginia) jhonnydevops (6829-8320-8880) jhonnyAdmin

EC2 > Instances

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Capacity Manager New

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Instances (1/5) info

Last updated 6 minutes ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input type="checkbox"/>	vprofile-dbu1	i-0c5594cc01f4422a9	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1c	ec2-54-229
<input type="checkbox"/>	Vprofile-mc01	i-06a453b0821b5a035	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1c	ec2-54-160
<input checked="" type="checkbox"/>	Vprofile-app01	i-0f3db3e41e81228d7	Terminated	t3.micro	-	View alarms +	us-east-1c	-
<input type="checkbox"/>	Vprofile-rmq01	i-02b0732824e12124a	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1c	ec2-13-220
<input type="checkbox"/>	vprofile-app	i-0d66d5b830b19f2bf	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1c	ec2-44-223

i-0f3db3e41e81228d7 (Vprofile-app01)

▼ Inbound rules

Filter rules

Name	Security group rule ID	Port range	Protocol	Source	Security groups
No rules to display					

AutoScaling Group handling the application instance:

