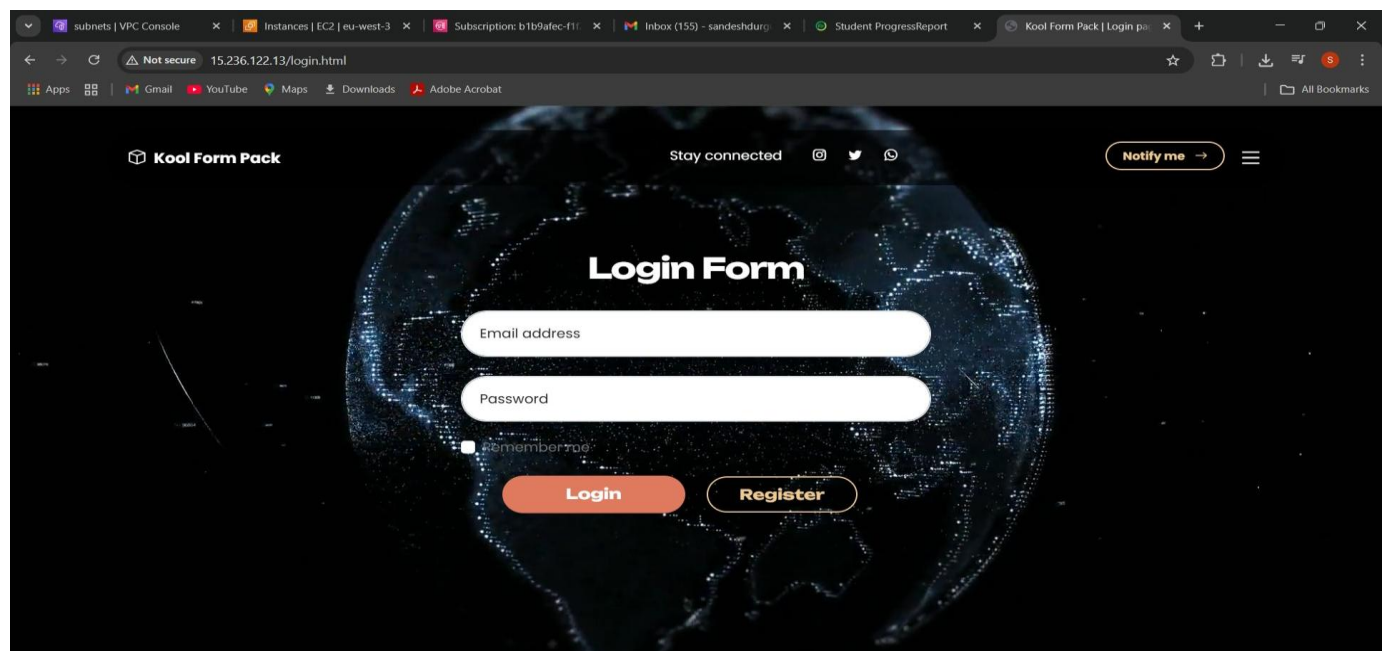
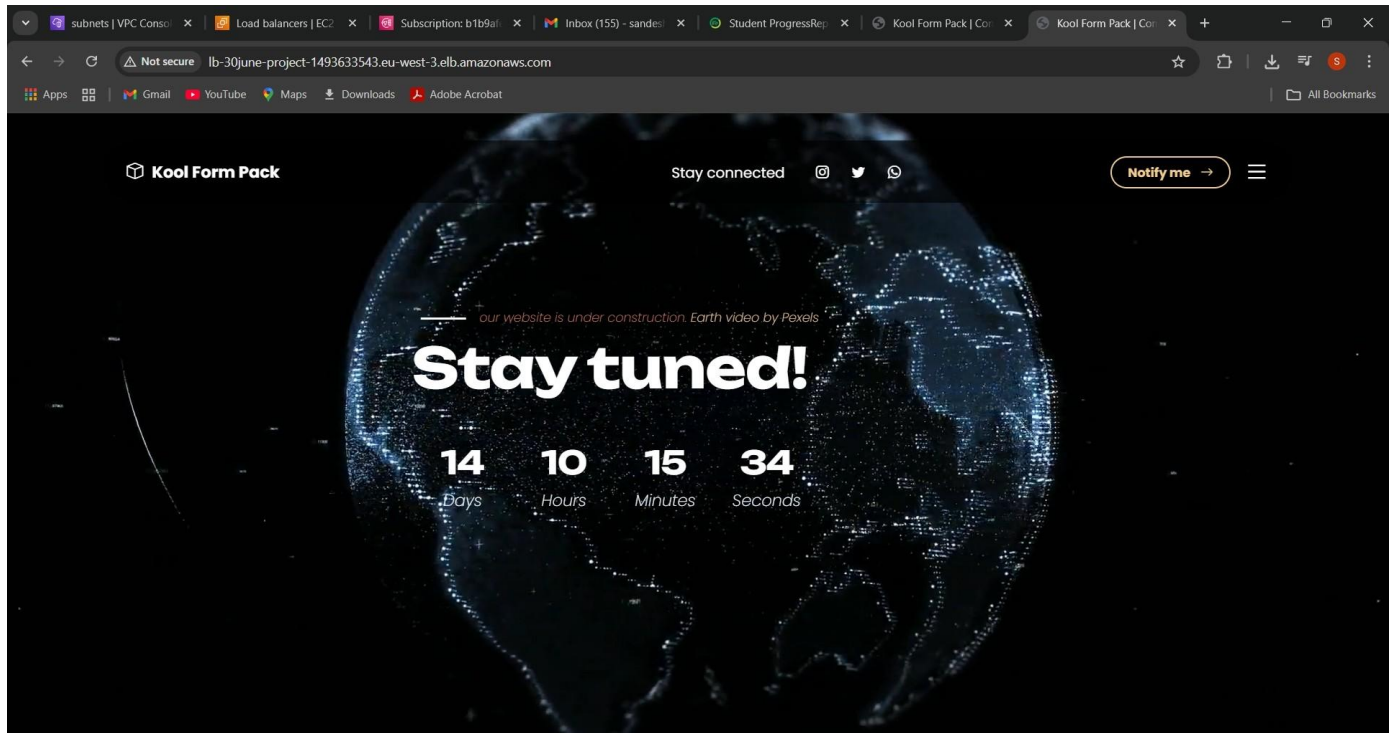


AWS Project

Project Overview

Website hosting on AWS by creating a custom VPC with Auto Scaling, Application Load Balancer, and monitoring using CloudWatch. Also integrates Simple Notification Service (SNS) for alerts and notifications. And also created Private Database.

Web Server With Load Balancer DNS



EC2 INSTANCE

The screenshot shows the AWS Management Console for the eu-west-3 region. The left sidebar contains navigation links for EC2, Images, Elastic Block Store, and Network & Security. The main content area displays a list of EC2 instances. The 'database-server' instance is selected, and its details are shown in the right pane.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
webserver1	i-0a07a5551b608360	Running	t2.micro	2/2 checks passed	View alarms	eu-west-3a	-
webserver2	i-0b49ef4e4ff5abaf1	Running	t2.micro	2/2 checks passed	View alarms	eu-west-3a	-
database-server	i-03ad91b7290e2fe0b	Running	t2.micro	2/2 checks passed	View alarms	eu-west-3a	-
	i-03f46f54bf39f69e	Running	t2.micro	2/2 checks passed	View alarms	eu-west-3a	-
	i-0fb9da35c73b902c8	Running	t2.micro	2/2 checks passed	View alarms	eu-west-3a	-
jump-server	i-06b6c35c0f40cf0de	Running	t2.micro	2/2 checks passed	View alarms	eu-west-3a	-

i-03ad91b7290e2fe0b (database-server)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary

Instance ID: i-03ad91b7290e2fe0b

Public IPv4 address: -

Private IPv4 addresses: 10.10.2.69

Instance state: Running

Private IP DNS name (IPv4 only): ip-10-10-2-69.eu-west-3.compute.internal

Hostname type: IP name: ip-10-10-2-69.eu-west-3.compute.internal

Answer private resource DNS name: -

Instance type: t2.micro

Elastic IP addresses: -

VPC

The screenshot shows the AWS Management Console for the eu-west-3 region. The left sidebar contains navigation links for VPC, Subnets, Route tables, Internet gateways, Egress-only internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, NAT gateways, Peering connections, Security, Network ACLs, Security groups, PrivateLink, and Lattice. The main content area displays a list of VPCs. The 'vpc-1' VPC is selected, and its details are shown in the right pane.

Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR	DHCP option set
default vpc	vpc-0bbea31f8e2f61cf	Available	Off	172.31.0.0/16	-	dopt-02c8f037d
vpc-1	vpc-07cc22892f3bb44c5	Available	Off	10.10.0.0/16	-	dopt-02c8f037d

vpc-07cc22892f3bb44c5 / vpc-1

Details | Resource map | CIDRs | Flow logs | Tags | Integrations

Details

VPC ID: vpc-07cc22892f3bb44c5

State: Available

DNS resolution: Enabled

Main network ACL: acl-07cc22892f3bb44c5

Block Public Access: Off

DHCP option set: dopt-02c8f037dc5ba2ac0

IPv4 CIDR: 10.10.0.0/16

DNS hostnames: Disabled

Main route table: rtb-0abf655298724eb3b

IPv6 pool: -

Subnets

The screenshot shows the AWS Management Console for the 'eu-west-3' region. The left sidebar contains the 'VPC dashboard' and 'Virtual private cloud' sections. The main content area shows 'Subnets (1/3)' with a table of subnets. The selected subnet, 'subnet-09e90d79ee23ff457', is shown in detail below the table.

Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR	IPv6 CIDR
<input checked="" type="checkbox"/> pubsubnet-1	subnet-09e90d79ee23ff457	Available	vpc-07cc22892f5bb44c5 vpc-1	Off	10.10.1.0/24	-
<input type="checkbox"/> prisubnet	subnet-084a30fb7075b90cd	Available	vpc-07cc22892f5bb44c5 vpc-1	Off	10.10.2.0/24	-
<input type="checkbox"/> pubsubnet2	subnet-0133032dd6a3f00c0	Available	vpc-07cc22892f5bb44c5 vpc-1	Off	10.10.3.0/24	-

subnet-09e90d79ee23ff457 / pubsubnet-1

Details

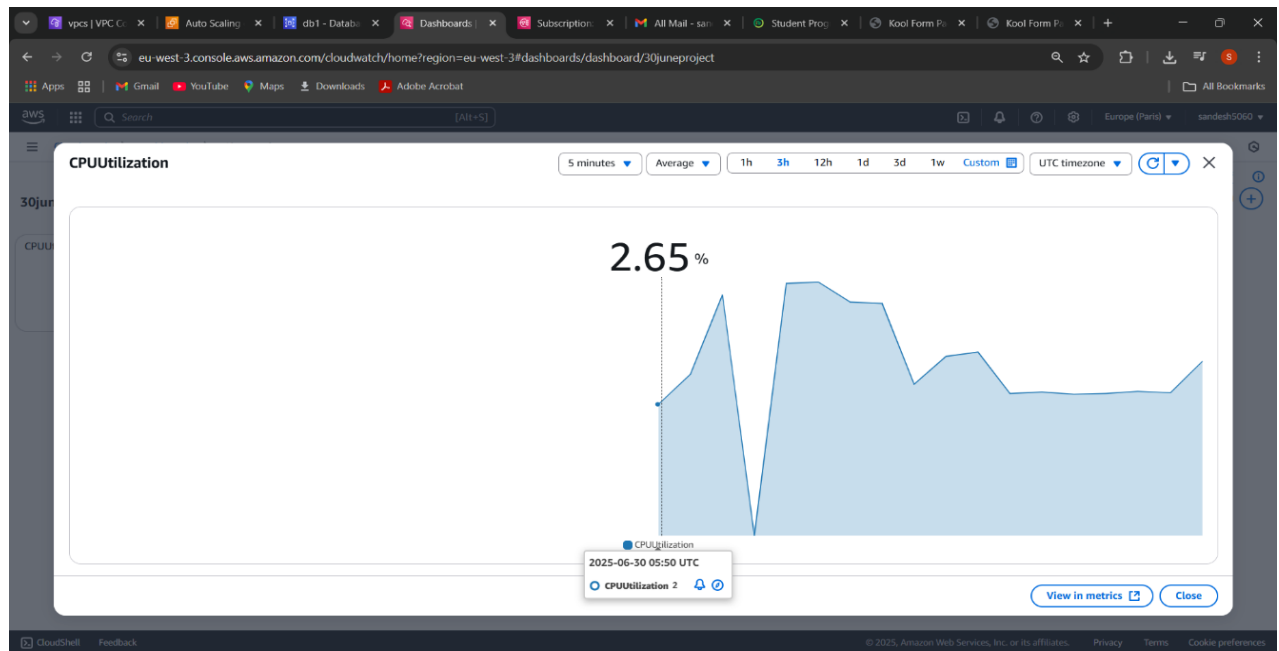
- Subnet ID: subnet-09e90d79ee23ff457
- Subnet ARN: arn:aws:ec2:eu-west-3:864899869902:subnet/subnet-09e90d79ee23ff457
- State: Available
- Block Public Access: Off
- IPv4 CIDR: 10.10.1.0/24
- Available IPv4 addresses: 250
- IPv6 CIDR: -
- IPv6 CIDR association ID: -
- Availability Zone: eu-west-3a
- VPC: vpc-07cc22892f5bb44c5 | vpc-1
- Route table: rtb-0d9a26285f41e08a6 | pub-RT

Email & Auto Scaling Notification

The screenshot shows a Gmail inbox with three email notifications. The first two are from 'topic-30june-project' and the third is from 'topic-30june-project'.

From	Subject	Time
topic-30june-project	Auto Scaling: launch for group "ASG-30june-project" - Service: AWS Auto Scaling Time: 2025-06-30T06:39:42.679Z RequestId: f9e65efe-3e88-c457-a...	12:09
topic-30june-project	ALARM: "alarm for cpu < 20%" in EU (Paris) - You are receiving this email because your Amazon CloudWatch Alarm "alarm for cpu < 20%" in the EU (Pa...	11:52
topic-30june-project	Auto Scaling: test notification for group "ASG-30june-project" - Service: AWS Auto Scaling Time: 2025-06-30T06:08:58.831Z RequestId: 4c38819f-85e...	11:38

CloudWatch Dashboard



Aurora and RDS

The screenshot shows the AWS Aurora and RDS console for instance `db1`. The left sidebar contains navigation links for "Aurora and RDS", "Databases", "Query editor", "Performance insights", "Snapshots", "Exports in Amazon S3", "Automated backups", "Reserved instances", "Proxies", "Subnet groups", "Parameter groups", "Option groups", "Custom engine versions", "Zero-ETL integrations", "Events", "Event subscriptions", and "Recommendations". The main content area displays the "Summary" tab for instance `db1`, which includes the following information:

- DB identifier:** `db1`
- Status:** `Available`
- Role:** `Instance`
- Engine:** `MySQL Community`
- Class:** `db.t4g.micro`
- Current activity:** `0 Connections`
- Region & AZ:** `eu-west-3a`

The "Connectivity & security" tab is selected, showing the following details:

- Endpoint & port:** `db1.c5ceq0gu8g6.eu-west-3.rds.amazonaws.com`, `Port: 3306`
- Networking:** `Availability Zone: eu-west-3a`, `VPC: vpc-07c22892f3bb44c5`, `Subnet group: rds-ec2-db-subnet-group-3`, `Subnets: subnet-04eea899722ff8a9c, subnet-057adec3998be0662f`
- Security:** `VPC security groups: rds-ec2-7 (sg-027402691cb450f18)`, `SG-mysql-30juneproject (sg-063f88bdacc46d20b)`, `Publicly accessible: No`, `Certificate authority: rds-ca-rsa2048-sha256`

Databases

```
MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| db1      |
| information_schema |
| mysql    |
| performance schema |
| sys      |
+-----+
5 rows in set (0.00 sec)

MySQL [(none)]>
```

Db1

```
MySQL [db1]> SELECT * FROM students;
+-----+-----+-----+-----+-----+-----+-----+
| student_id | name       | age | gender | course | mobile_no | admission_date |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Amit Sharma | 20 | Male | BCA | 9876543210 | 2023-07-01 |
| 2 | Neha Singh | 19 | Female | BSc | 9123456789 | 2023-06-20 |
| 3 | Raj Mehta | 21 | Male | BA | 9988776655 | 2023-05-15 |
| 4 | Sneha Kulkarni | 20 | Female | BCom | 9090909090 | 2023-08-10 |
| 5 | Rohit Desai | 22 | Male | BBA | 9012345678 | 2023-09-05 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

MySQL [db1]>
```

THANK YOU