



# KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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**CC LAB -9**  
**Cloud watch**

- Name : HITU RAJ
- Roll no. : 2005025
- Branch : CSE-10

## 1. CREATING TOPIC:

The screenshot displays the Amazon SNS console interface. At the top, a green notification banner states: "Topic MoneyAlert\_2005025 created successfully. You can create subscriptions and send messages to them from this topic." The main content area shows the details for the topic "MoneyAlert\_2005025". The details include:

- Name: MoneyAlert\_2005025
- Display name: -
- ARN: arn:aws:sns:us-east-1:134338565968:MoneyAlert\_2005025
- Topic owner: 134338565968
- Type: Standard

Below the details, there are tabs for "Subscriptions", "Access policy", "Data protection policy", "Delivery policy (HTTP/S)", "Delivery status logging", "Encryption", "Tags", and "Integrations". The "Subscriptions" tab is active, showing "Subscriptions (0)". At the bottom of the subscriptions section, there is a search bar and a "Create subscription" button.

## 2. CREATING SUBSCRIPTION AND ADDING MAIL

**Amazon SNS**

Dashboard  
Topics  
**Subscriptions**

▼ Mobile  
Push notifications  
Text messaging (SMS)  
Origination numbers

**Important changes for sending text messages (SMS) to US destinations**  
US mobile carriers have recently changed their regulations, and will require that all toll-free numbers (TFNs) complete a registration process with a regulatory body before September 30, 2022. If you currently have a toll-free number you must register your toll-free number by September 30, 2022 or you will no longer be able to use the toll-free number. [Learn more](#)

**Subscription to MoneyAlert\_2005025 created successfully.**  
The ARN of the subscription is `arn:aws:sns:us-east-1:134338565968:MoneyAlert_2005025:521d21ee-3e09-4512-b2a8-46b754aef976`.

Amazon SNS > Topics > MoneyAlert\_2005025 > Subscription: 521d21ee-3e09-4512-b2a8-46b754aef976

Subscription: 521d21ee-3e09-4512-b2a8-46b754aef976

**Details**

ARN <code>arn:aws:sns:us-east-1:134338565968:MoneyAlert_2005025:521d21ee-3e09-4512-b2a8-46b754aef976</code>	Status Pending confirmation
Endpoint <code>RAJHITU10@GMAIL.COM</code>	Protocol EMAIL
Topic <a href="#">MoneyAlert_2005025</a>	
Subscription Principal <code>arn:aws:iam::134338565968:role/voclabs</code>	

## 3. Creating alarm

**CloudWatch**

Favorites and recents  
Dashboards  
Alarms  
Logs  
Metrics  
X-Ray traces  
Events  
Application monitoring  
Insights

Settings  
Getting Started

**Successfully created alarm MoneyAlertAlarm.**

**Some subscriptions are pending confirmation**  
Amazon SNS doesn't send messages to an endpoint until the subscription is confirmed

CloudWatch > Alarms

Alarms (1) Hide Auto Scaling alarms Clear selection Create composite alarm Actions Create alarm

Search Any state Any type Any actions ...

Name	State	Last state update	Conditions	Actions
MoneyAlertAlarm	Insufficient data	2023-04-07 15:27:30	EstimatedCharges > 100 for 1 datapoints within 6 hours	Actions enabled <b>Warning</b>



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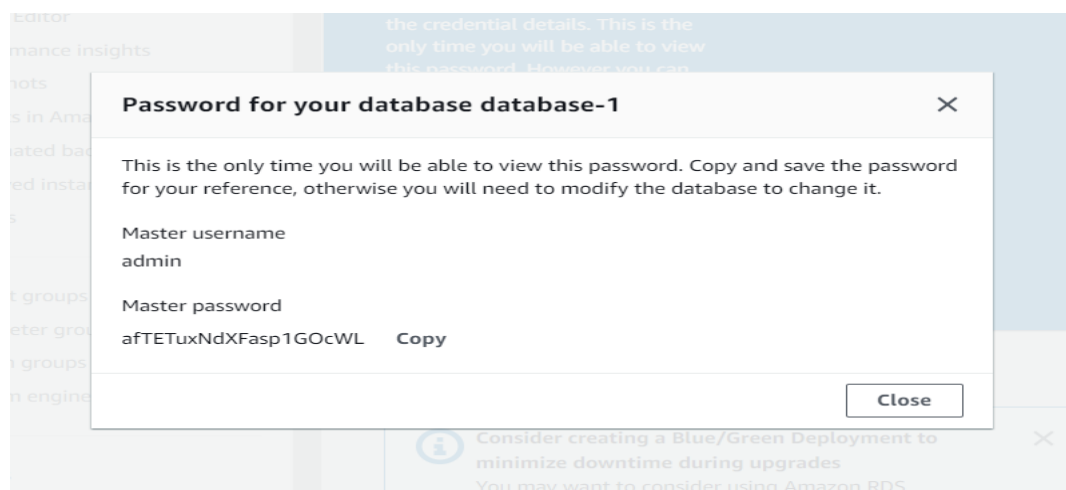
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## CC LAB -10

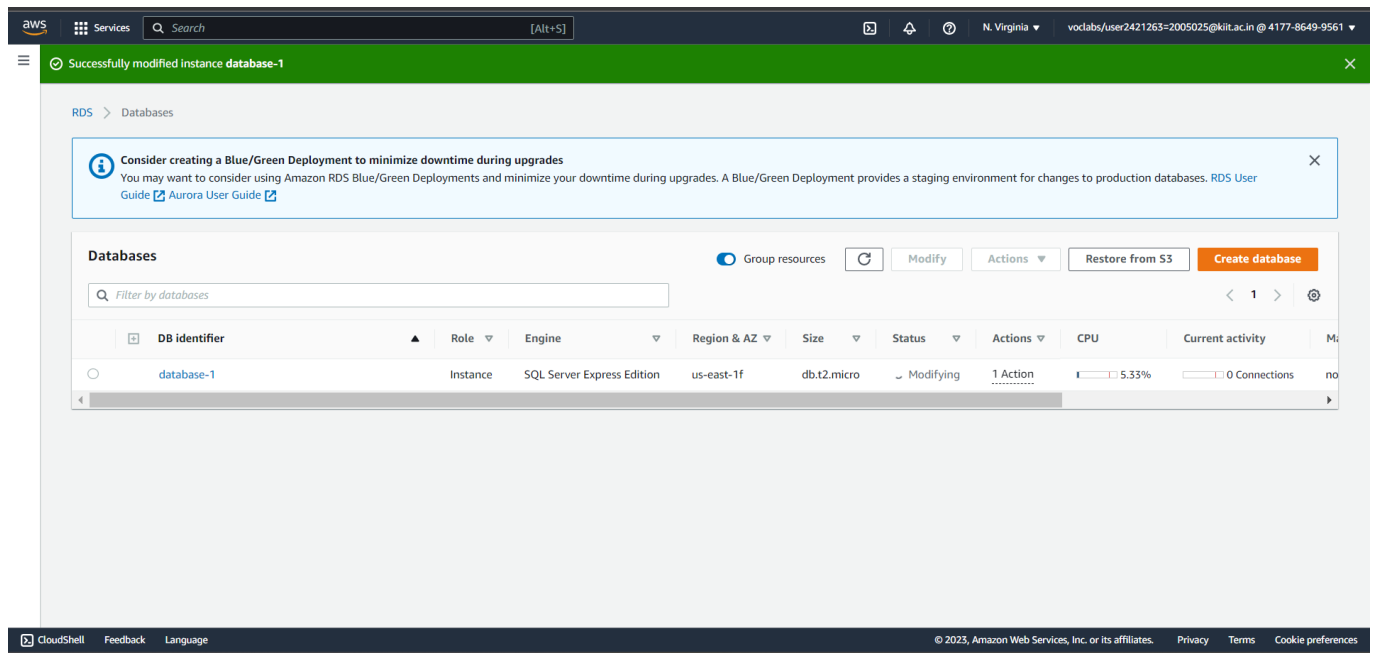
### Amazon RDS

- Name : HITU RAJ
- Roll no. : 2005025
- Branch : CSE-10

## 1. Creating a RDS



## 2. public access to data base

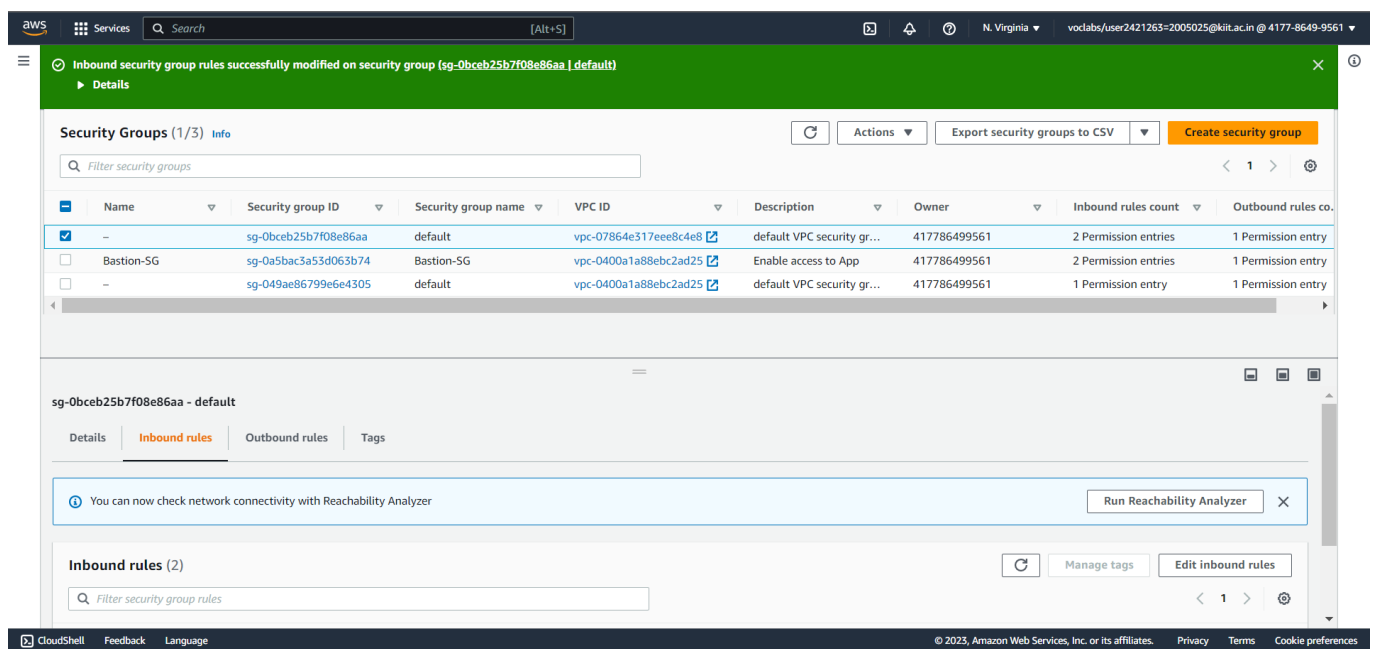


The screenshot shows the AWS RDS console. At the top, a green banner indicates 'Successfully modified instance database-1'. Below this, a notification box suggests creating a Blue/Green Deployment. The main section, titled 'Databases', contains a table with one entry: 'database-1'. The instance is in the 'Modifying' state, using 'SQL Server Express Edition' engine, 'us-east-1f' region, and 'db.t2.micro' size. The CPU usage is 5.33% and there are 0 connections. The 'Actions' column shows '1 Action'.

DB identifier	Role	Engine	Region & AZ	Size	Status	Actions	CPU	Current activity
database-1	Instance	SQL Server Express Edition	us-east-1f	db.t2.micro	Modifying	1 Action	5.33%	0 Connections

## 3. Editing inbound rule for VPC

My IP : 103.161.223.10



The screenshot shows the AWS Security Groups console. A green banner at the top indicates 'Inbound security group rules successfully modified on security group (sg-0bceb25b7f08e86aa [default])'. Below this, a table lists three security groups. The first group, 'sg-0bceb25b7f08e86aa', is the 'default' group for VPC 'vpc-07864e317eee8c4e8'. The second group, 'sg-0a5bac3a53d063b74', is the 'Bastion-SG' for VPC 'vpc-0400a1a88ebc2ad25'. The third group, 'sg-049ae86799e6e4305', is the 'default' group for VPC 'vpc-0400a1a88ebc2ad25'. The 'Inbound rules count' for the first group is 2, and for the second group is 2. The 'Outbound rules count' for the first group is 1, and for the second group is 1.

Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules count	Outbound rules count
-	sg-0bceb25b7f08e86aa	default	vpc-07864e317eee8c4e8	default VPC security gr...	417786499561	2 Permission entries	1 Permission entry
Bastion-SG	sg-0a5bac3a53d063b74	Bastion-SG	vpc-0400a1a88ebc2ad25	Enable access to App	417786499561	2 Permission entries	1 Permission entry
-	sg-049ae86799e6e4305	default	vpc-0400a1a88ebc2ad25	default VPC security gr...	417786499561	1 Permission entry	1 Permission entry

sg-0bceb25b7f08e86aa - default

Details | **Inbound rules** | Outbound rules | Tags

You can now check network connectivity with Reachability Analyzer

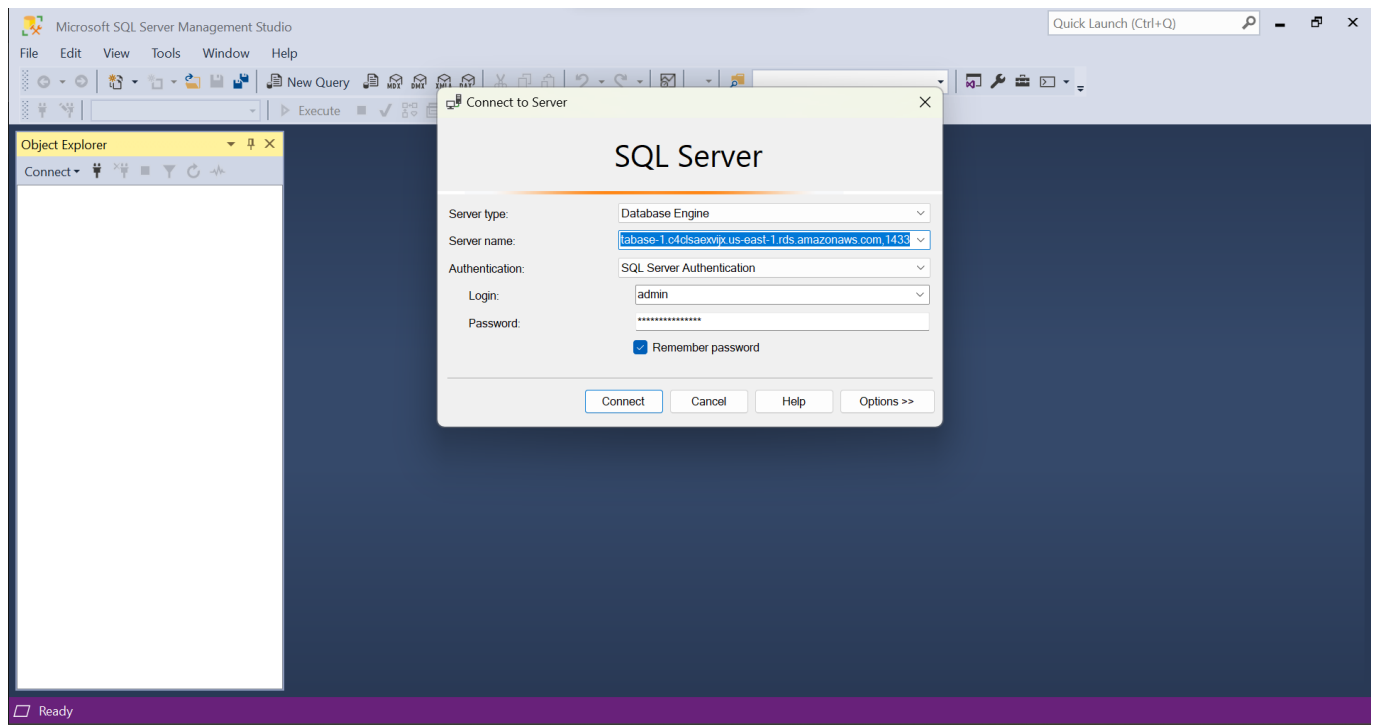
Run Reachability Analyzer

Inbound rules (2)

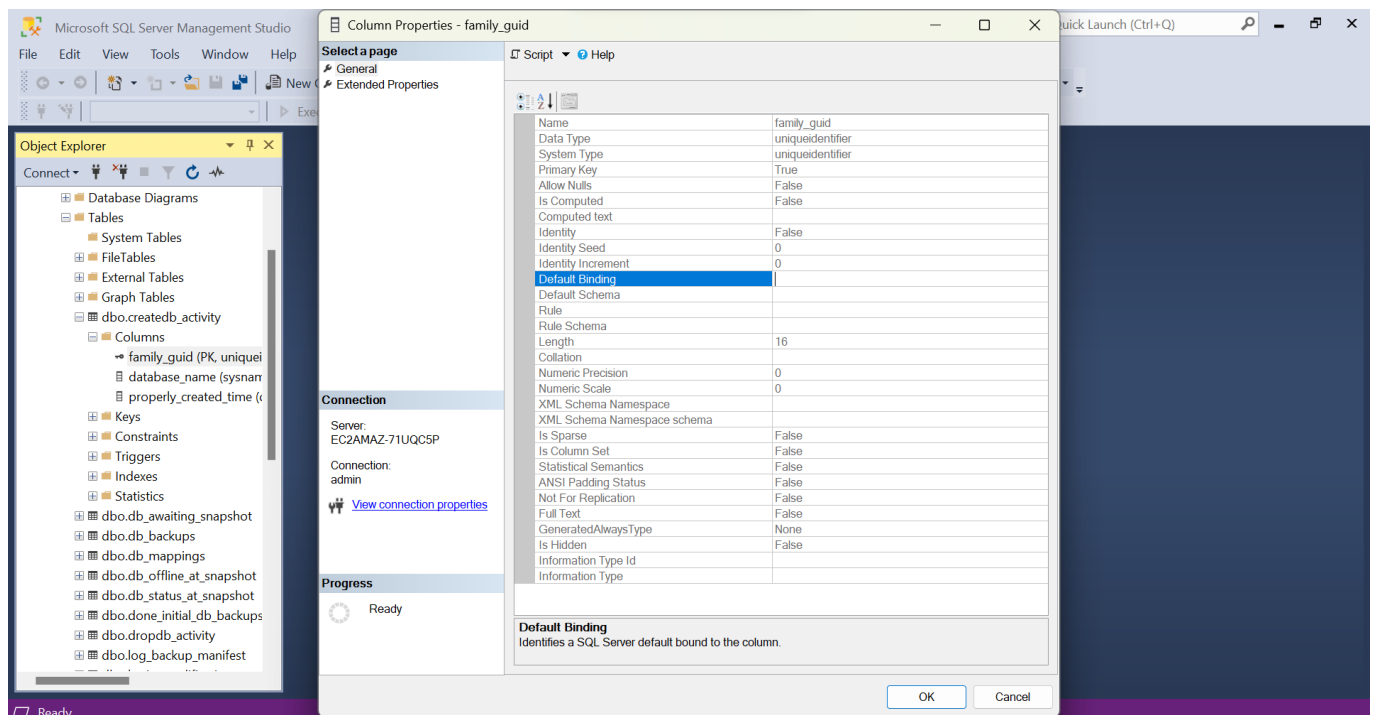
Filter security group rules

## 4. linking RDS

Endpoint value: 1.c4clsaxvix.us-east-1.rds.amazonaws.com



## 5. Connected to SQL sever Management tool





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## CC LAB11 Load Balancing

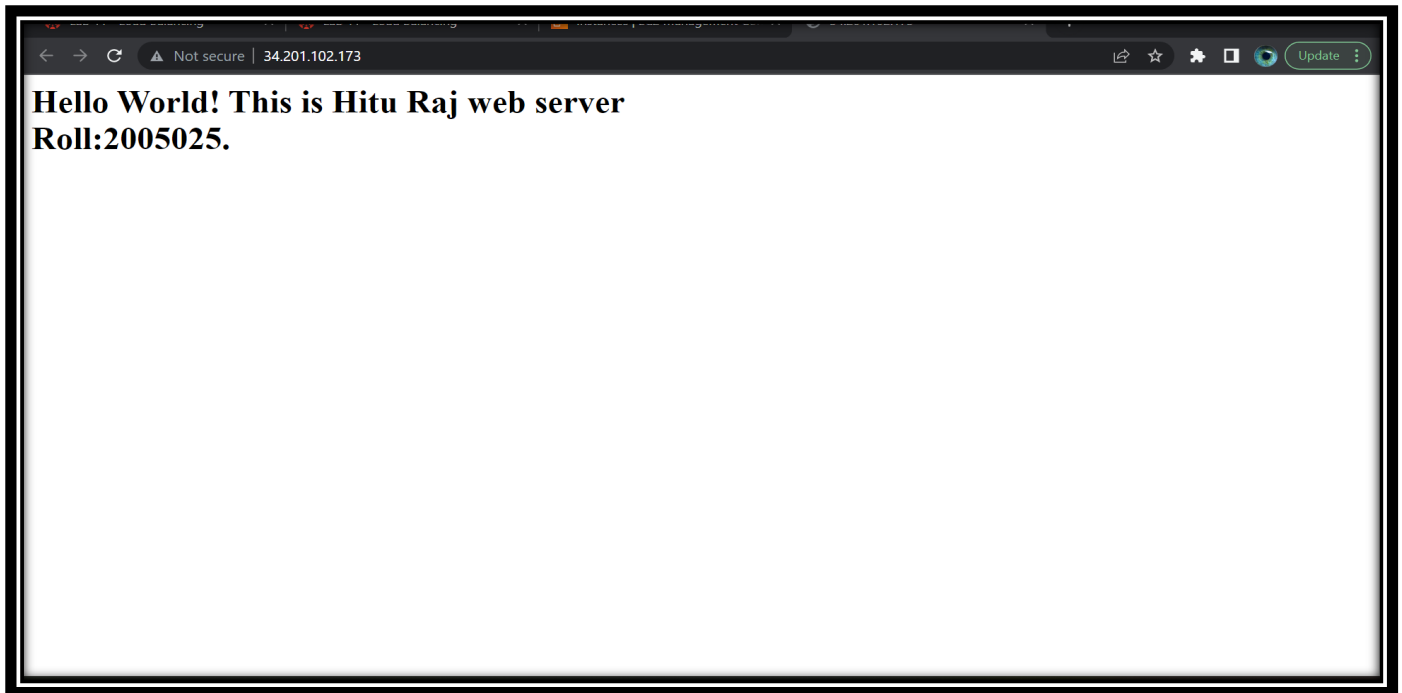
- Name : HITU RAJ
- Roll no. : 2005025
- Branch : CSE-10

## 1. Creating an Instance

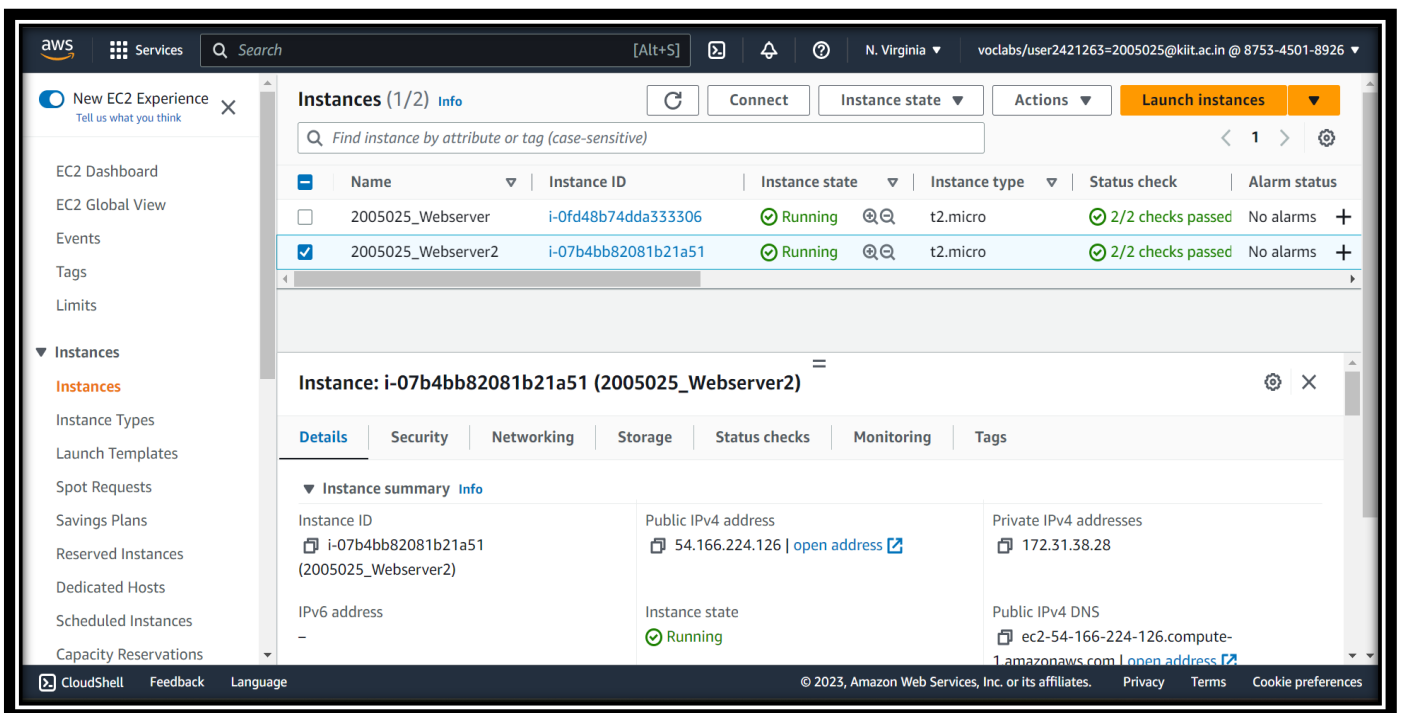
The screenshot shows the AWS Management Console interface for the 'us-east-1' region. The main content area displays a table of EC2 instances. One instance is listed with the name '2005025\_Webserver', ID 'i-0fd48b74dda333306', and is in a 'Running' state. The instance type is 't2.micro' and it has passed 2/2 status checks. The left sidebar shows the navigation menu with 'Instances' selected. The top bar indicates the region is 'N. Virginia' and the user is 'voclabs/user2421263=2005025@kiit.ac.in'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
2005025_Webserver	i-0fd48b74dda333306	Running	t2.micro	2/2 checks passed	No alarms

## 2. Accessing the EC2 instance website1



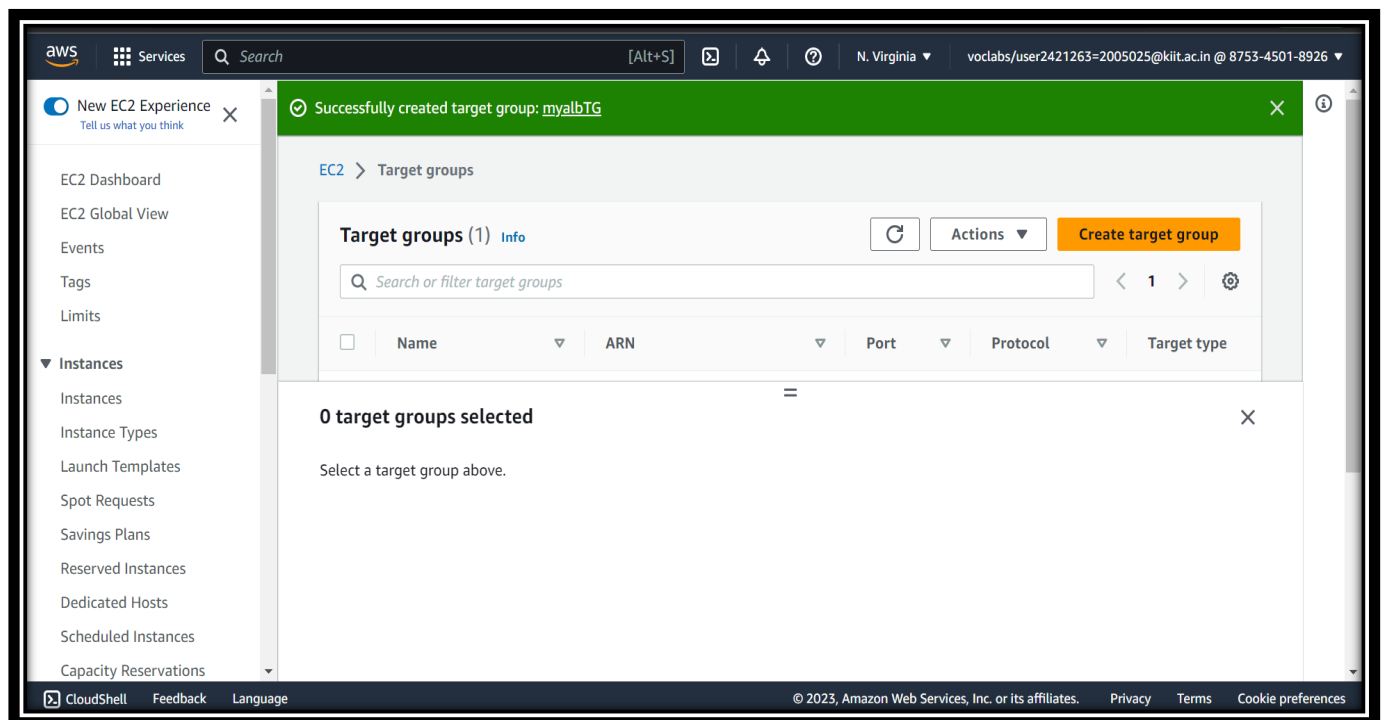
## 3. creating 2nd EC2 instance



## 4. Displaying 2<sup>nd</sup> website

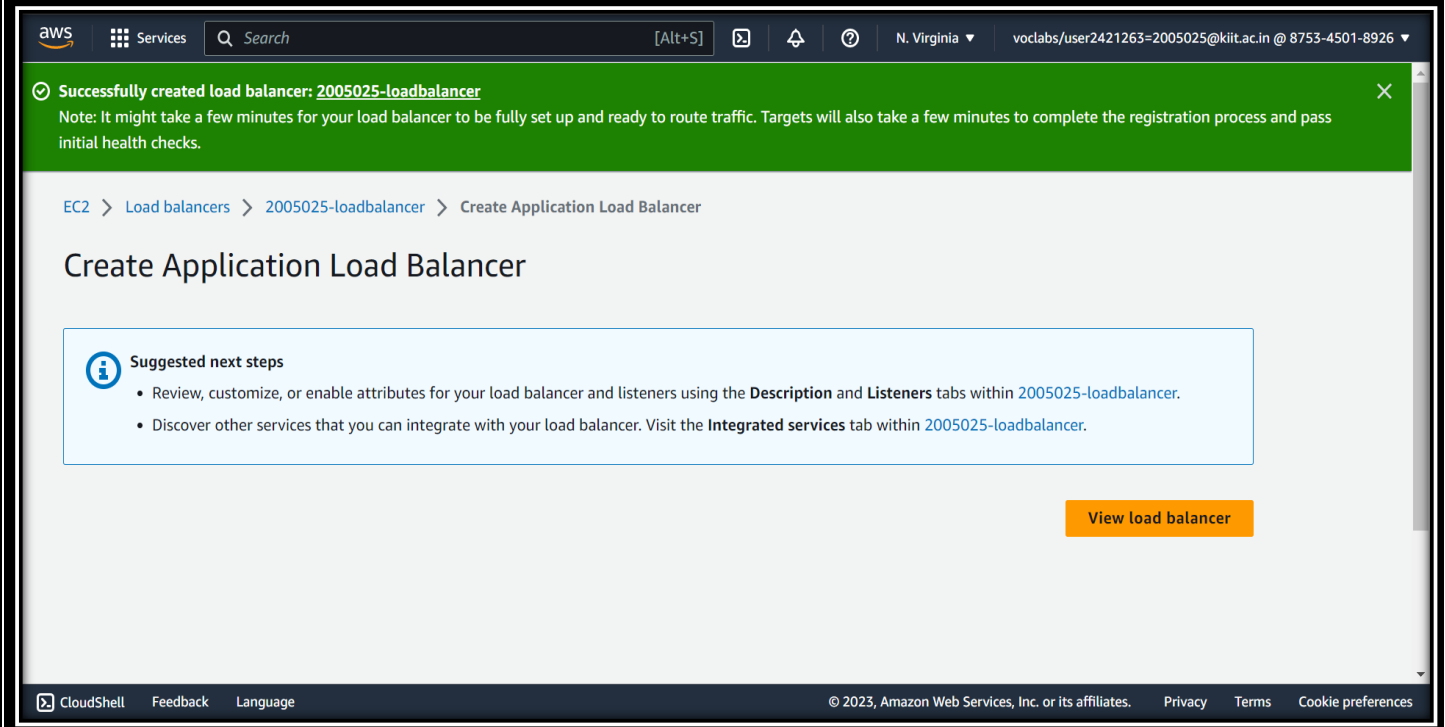


## 5. Creating Target group





## 6. Creating Load Balancer



## 7. Displaying the websites using Load Balancer



2005025\_Hitu Raj



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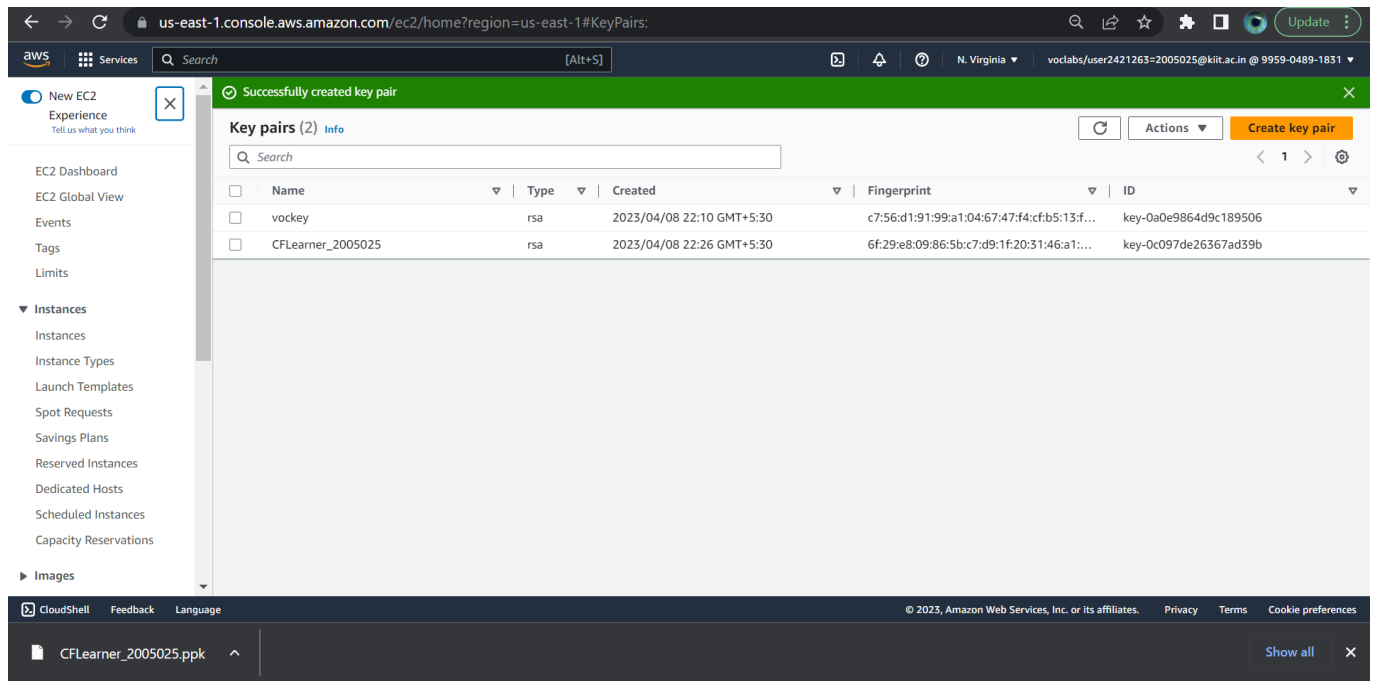
## CC LAB 12 BeanStalk Cloud Formation

- Name : HITU RAJ
- Roll no. : 2005025
- Branch : CSE-10

## 1. Deploying application using BeanStalk

The screenshot displays the AWS Elastic Beanstalk console interface. At the top, there's a navigation bar with the AWS logo, 'Services', a search bar, and user information. A blue banner at the top of the console area states: 'The new Elastic Beanstalk console experience is now available. We've redesigned the Elastic Beanstalk console to make it easier to use.' Below this, the breadcrumb trail shows 'Elastic Beanstalk > Environments > 2005025shiturajapp-env'. The main content area for the environment '2005025shiturajapp-env' includes a 'Refresh' button, an 'Actions' dropdown, and three sections: 'Health' (showing a green checkmark and 'Ok' status), 'Running version' (showing 'Sample Application' and an 'Upload and deploy' button), and 'Platform' (showing 'PHP 8.1 running on 64bit Amazon Linux 2/3.5.6' and a 'Change' button). At the bottom, there's a 'Recent events' section with a 'Show all' button and a table with columns for 'Time', 'Type', and 'Details'. The footer contains links for 'CloudShell', 'Feedback', 'Language', and copyright information for Amazon Web Services.

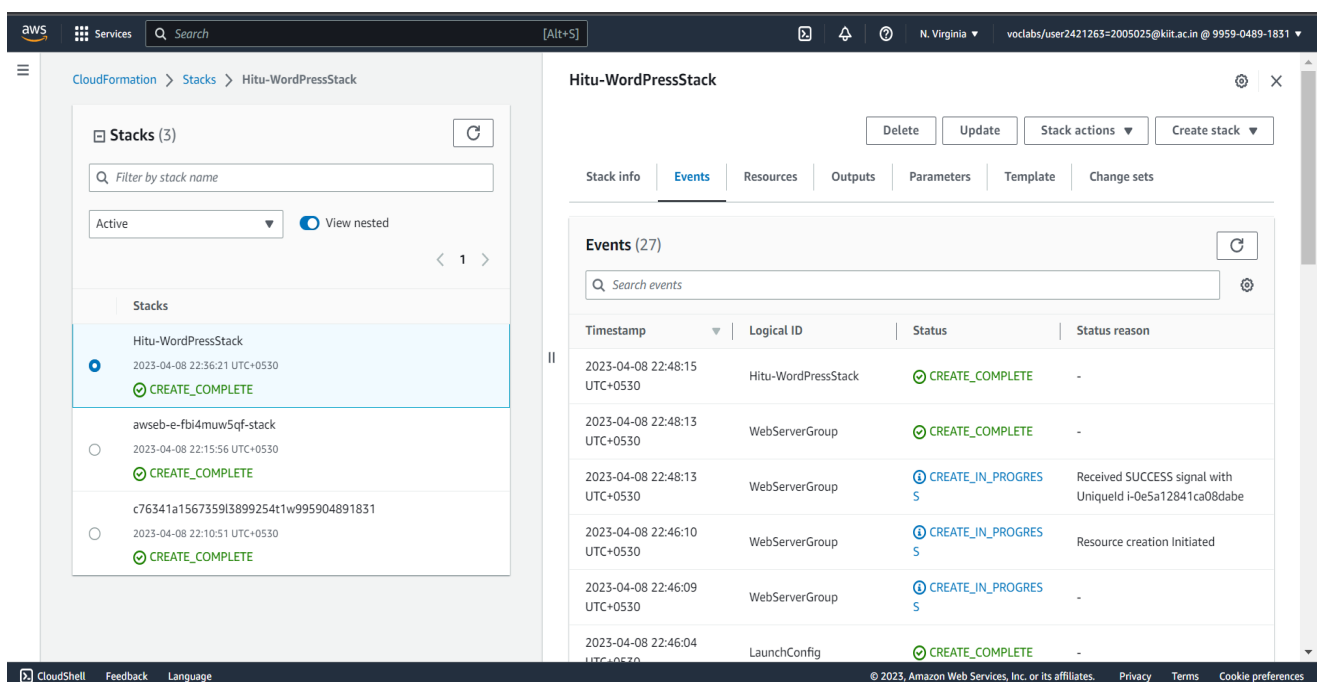
## 2. Creating Key Pair



The screenshot shows the AWS Management Console for the 'us-east-1' region. A green banner at the top indicates 'Successfully created key pair'. The 'Key pairs (2)' page is displayed, showing a table of key pairs. The table has columns for Name, Type, Created, Fingerprint, and ID. Two key pairs are listed: 'vockey' and 'CFLearner\_2005025', both of type 'rsa'.

Name	Type	Created	Fingerprint	ID
vockey	rsa	2023/04/08 22:10 GMT+5:30	c7:56:d1:91:99:a1:04:67:47:f4:cf:b5:13:f...	key-0a0e9864d9c189506
CFLearner_2005025	rsa	2023/04/08 22:26 GMT+5:30	6f:29:e8:09:86:5b:c7:d9:1f:20:31:46:a1:...	key-0c097de26367ad39b

## 3. Deploy an application using Cloud Formation



The screenshot shows the AWS Management Console for the 'Hitu-WordPressStack' CloudFormation stack. The 'Events' tab is selected, showing a list of events. The stack is in a 'CREATE\_COMPLETE' state. The events list shows the stack creation and the creation of resources like 'WebServerGroup' and 'LaunchConfig'.

Timestamp	Logical ID	Status	Status reason
2023-04-08 22:48:15 UTC+0530	Hitu-WordPressStack	CREATE_COMPLETE	-
2023-04-08 22:48:13 UTC+0530	WebServerGroup	CREATE_COMPLETE	-
2023-04-08 22:48:13 UTC+0530	WebServerGroup	CREATE_IN_PROGRESS	Received SUCCESS signal with Uniqueld i-0e5a12841ca08dabe
2023-04-08 22:46:10 UTC+0530	WebServerGroup	CREATE_IN_PROGRESS	Resource creation Initiated
2023-04-08 22:46:09 UTC+0530	WebServerGroup	CREATE_IN_PROGRESS	-
2023-04-08 22:46:04 UTC+0530	LaunchConfig	CREATE_COMPLETE	-