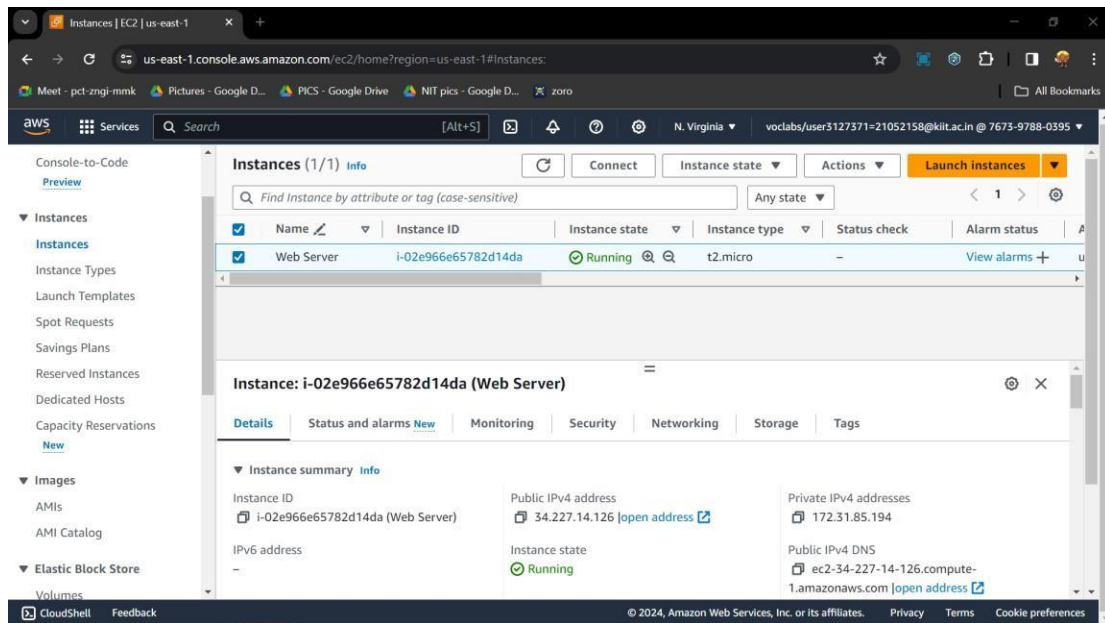


# CC Lab

## AWS: 4.1



ENABLE

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group

☐ Select existing security group

Security group name - *required*

Web Server

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and . \_ - : / ( ) # , @ [ ] + = & ; [ ] ! \$ \*

Description - *required* [Info](#)

Security group for my web server

Inbound Security Group Rules

No security group rules are currently included in this template. Add a new rule to include it in the launch template.

Add security group rule

## User data - *optional* [Info](#)

Upload a file with your user data or enter it in the field.

 Choose file

```
#!/bin/bash
yum update -y
yum -y install httpd
systemctl enable httpd
systemctl start httpd
echo '<html><h1>Hello World!</h1></html>' > /var/www/html/index.html
```



# CC Lab

## AWS: 4.2

**Successfully created bucket "aws1lab"**  
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

**Account snapshot**  
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

**General purpose buckets** | Directory buckets

**General purpose buckets (1) Info**  
Buckets are containers for data stored in S3.

Name	AWS Region	Access	Creation date
aws1lab	Asia Pacific (Mumbai) ap-south-1	Objects can be public	March 4, 2024, 17:17:05 (UTC+05:30)

Amazon S3 > Buckets > aws1lab

**aws1lab Info**

**Objects** | Properties | Permissions | Metrics | Management | Access Points

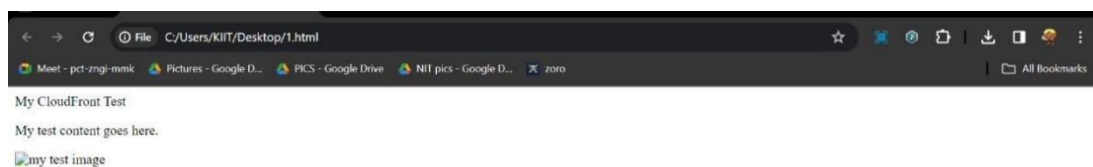
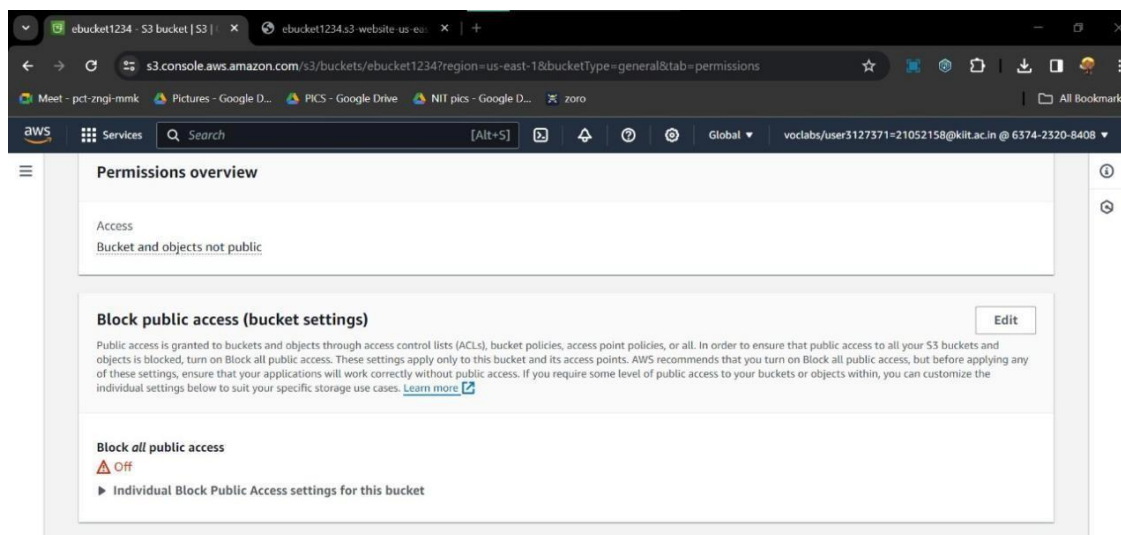
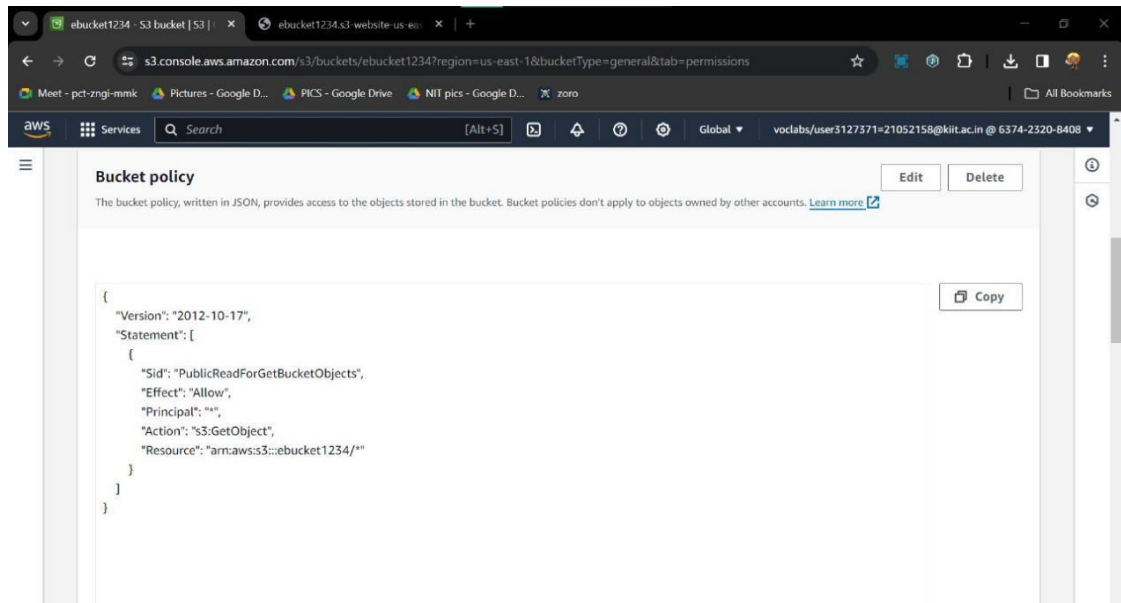
**Objects (1) Info**

Name	Type	Last modified	Size	Storage class
index.html	html	March 4, 2024, 17:29:13 (UTC+05:30)	64.0 B	Standard

**Hello World. Take me to your leader.**

# CC Lab

## AWS: 5



CloudFront | Global

us-east-1.console.aws.amazon.com/cloudfront/v4/home?region=us-east-1#/distributions/EUM8IRBZXTNF3

CloudFront

Distributions

Policies

Functions

What's new **NEW**

Telemetry

Monitoring

Alarms

Logs

Reports & analytics

Cache statistics

Popular objects

Top referrers

Usage

Viewers

General Security Origins Behaviors Error pages Invalidations Tags

Details

Distribution domain name: d3oxrss9bsni2.cloudfront.net

ARN: arn:aws:cloudfront::637423208408:distribution/EUM8IRBZXTNF3

Last modified: March 5, 2024 at 10:19:54 AM UTC

Settings

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: -

Edit

CloudShell Feedback

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Meet - pct-zngi-mmik Pictures - Google D... PICS - Google Drive NIT pics - Google D... zoro

aws Services Search [Alt+S]

Global ▼ voclabs/user3127371=21052158@kiiit.ac.in @ 6374-2320-8408

ebucket1234 Info Publicly accessible

Objects Properties Permissions Metrics Management Access Points

Objects (2) Info

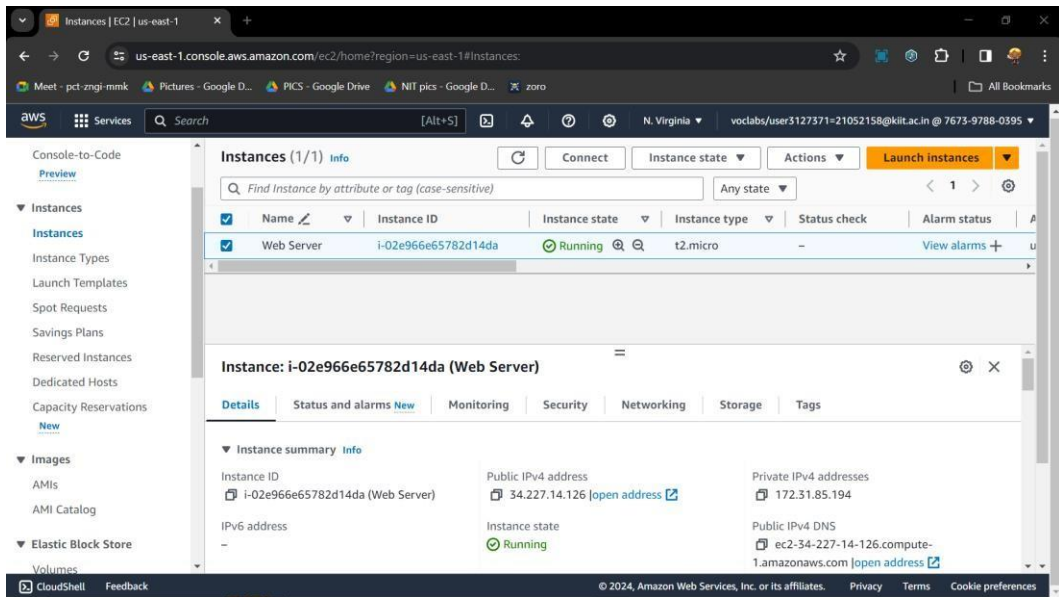
Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Find objects by prefix

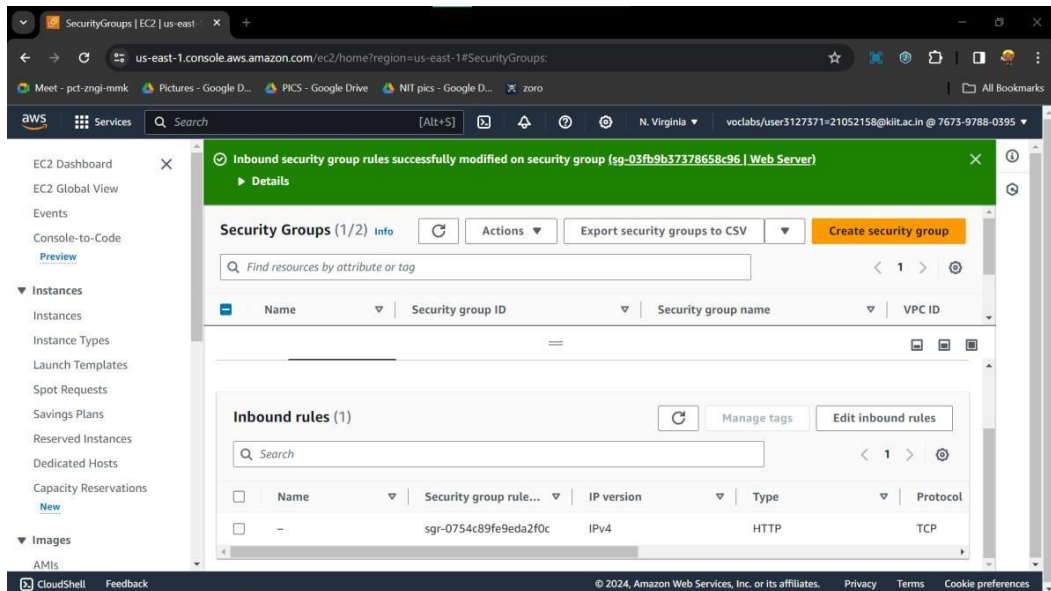
	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	html.asp-final-86da30eff12f46f3a1394efb0b137103.png	png	March 5, 2024, 15:53:11 (UTC+05:30)	90.4 KB	Standard
<input type="checkbox"/>	index.html	html	March 5, 2024, 15:44:53 (UTC+05:30)	64.0 B	Standard

# CC Lab

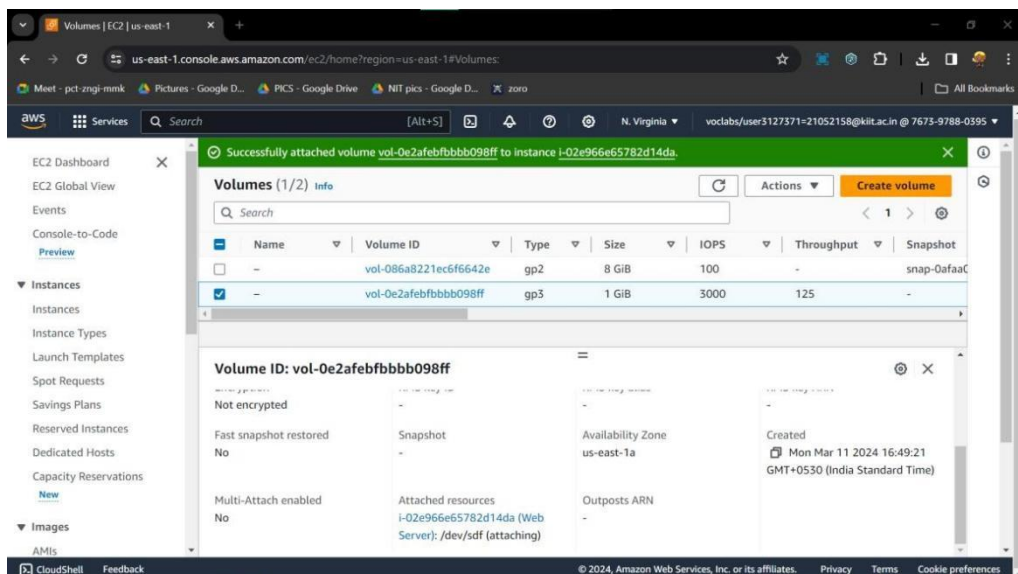
## AWS: 6



The screenshot displays the AWS Management Console for the 'us-east-1' region. The left sidebar shows the navigation menu with 'Instances' selected. The main content area shows the 'Instances (1/1) Info' page. A table lists the instance 'Web Server' with ID 'i-02e966e65782d14da', which is in a 'Running' state. Below the table, the 'Instance: i-02e966e65782d14da (Web Server)' details are shown, including its public IPv4 address (34.227.14.126) and instance type (t2.micro).



The screenshot displays the AWS Management Console for the 'us-east-1' region, showing the 'Security Groups' page. A green notification banner at the top states: 'Inbound security group rules successfully modified on security group (sg-03fb9b37378658c96 | Web Server)'. Below the notification, the 'Security Groups (1/2) Info' page is shown. A table lists the security group 'sg-03fb9b37378658c96' with its name 'sg-03fb9b37378658c96' and VPC ID 'vpc-03fb9b37378658c96'. Below the table, the 'Inbound rules (1)' are shown, including a rule named 'sgr-0754c89fe9eda2f0c' with IP version 'IPv4', type 'HTTP', and protocol 'TCP'.



The screenshot displays the AWS Management Console for the 'us-east-1' region, showing the 'Volumes' page. A green notification banner at the top states: 'Successfully attached volume vol-0e2afebfbbbb098ff to instance i-02e966e65782d14da'. Below the notification, the 'Volumes (1/2) Info' page is shown. A table lists the volume 'vol-0e2afebfbbbb098ff' with its name 'vol-0e2afebfbbbb098ff', type 'gp3', size '1 GiB', and IOPS '3000'. Below the table, the 'Volume ID: vol-0e2afebfbbbb098ff' details are shown, including its type 'gp3', size '1 GiB', IOPS '3000', and throughput '125'.



# CC Lab

## AWS: 7

The image shows two screenshots of the AWS IAM console interface. The top screenshot displays the details for a user named 'user-1'. The bottom screenshot displays the details for a user group named 'S3-Support'.

**Top Screenshot: User Details for 'user-1'**

**Identity and Access Management (IAM)**

Search IAM

Dashboard

Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access Analyzer

External access

**user-1** Info Delete

**Summary**

ARN <code>arn:aws:iam::058264312517:user/spl66/user-1</code>	Console access <b>Enabled without MFA</b>	Access key 1 <a href="#">Create access key</a>
Created March 18, 2024, 11:11 (UTC+05:30)	Last console sign-in <b>Never</b>	

Permissions Groups Tags (1) Security credentials Access Advisor

**Permissions policies (0)** Refresh Remove Add permissions

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

**Bottom Screenshot: User Group Details for 'S3-Support'**

**Identity and Access Management (IAM)**

Search IAM

Dashboard

Access management

- User groups**
- Users
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access Analyzer

External access

**Summary** Edit

User group name <b>S3-Support</b>	Creation time March 18, 2024, 11:11 (UTC+05:30)	ARN <code>arn:aws:iam::058264312517:group/spl66/S3-Support</code>
--------------------------------------	--	--

Users (1) Permissions Access Advisor

**Users in this group (1)** Refresh Remove Add users

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Search

<input type="checkbox"/>	User name <a href="#">↗</a>	Groups	Last activity	Creation time
<input type="checkbox"/>	<a href="#">user-1</a>	1	3 minutes ago	15 minutes ago

us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/groups/details/EC2-Support?section=users

Meet - pct-zngi-mmik Pictures - Google D... PICS - Google Drive NIT pics - Google D... zoro

aws Services Search [Alt+S]

Global voclabs/user3127371=21052158@kiiit.ac.in @ 0582-6431-2517

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access Analyzer

External access

Summary

Edit

User group name  
EC2-Support

Creation time  
March 18, 2024, 11:11 (UTC+05:30)

ARN  
arn:aws:iam::058264312517:group/spl66/EC2-Support

Users (1)

Permissions

Access Advisor

Users in this group (1)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Search

< 1 >

<input type="checkbox"/>	User name	Groups	Last activity	Creation time
<input type="checkbox"/>	<a href="#">user-2</a>	1	None	15 minutes ago

CloudShell Feedback

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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/groups/details/EC2-Admin?section=users

Meet - pct-zngi-mmik Pictures - Google D... PICS - Google Drive NIT pics - Google D... zoro

aws Services Search [Alt+S]

Global voclabs/user3127371=21052158@kiiit.ac.in @ 0582-6431-2517

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access Analyzer

External access

Summary

Edit

User group name  
EC2-Admin

Creation time  
March 18, 2024, 11:11 (UTC+05:30)

ARN  
arn:aws:iam::058264312517:group/spl66/EC2-Admin

Users (1)

Permissions

Access Advisor

Users in this group (1)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

Search

< 1 >

<input type="checkbox"/>	User name	Groups	Last activity	Creation time
<input type="checkbox"/>	<a href="#">user-3</a>	1	None	15 minutes ago

CloudShell Feedback

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Instances Info

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

Any state

< 1 ... >

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Av
--------------------------	------	-------------	----------------	---------------	--------------	--------------	----

You are not authorized to perform this operation. User: arn:aws:iam::058264312517:user/spl66/user-1 is not authorized to perform: ec2:DescribeInstances because no identity-based policy allows the ec2:DescribeInstances action

aws Services Search [Alt+S]

N. Virginia user-2 @ 0582-6431-2517

EC2 Dashboard

EC2 Global View

Events

Console-to-Code

Preview

Instances (1) Info

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

Any state

< 1 >

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	WebServer	i-04e413a4e2e53a7a7	Running	t2.micro	2/2 checks passed	View alarms




 **Failed to stop the instance i-04e413a4e2e53a7a7** 

You are not authorized to perform this operation. User: arn:aws:iam::058264312517:user/spl66/user-2 is not authorized to perform: ec2:StopInstances on resource: arn:aws:ec2:us-east-1:058264312517:instance/i-04e413a4e2e53a7a7 because no identity-based policy allows the ec2:StopInstances action. Encoded authorization failure message: cW7XEXLw\_HqLpSqNDOnbGtYUBjmUXFidL7jWfFvcNOuLx7M9icAi-QwsxVLBcrmkXdd8J95F9B7CQikRt1GS\_MPBye6fJ4rg\_ydT\_wmHy1tqQX\_GEO45Af\_nC-jXtlghoM4-KSpCfnlreCg8ATMM634qxLvtMgbHOEIWBkldwhvD8xefXCsz3nbAtGgTR1hgQlt8XaYcYzN8iVn\_utr4D9KiuBqnTrNXLxOeG82nqxYsVPdawv4s8gkdn612PN8SPLoahzREIYTFEHUD-APJ-Xv2FhtnPMG1MR85b7FUqzz4ab-aGydkIPAtam\_K64\_N4HVcu8x8cBI-LuTuOR3Q1NjanlLaTEaYhYz5PIKntqgUZry\_se5MHXuE8Y\_MNlbf8Y6PLypfz7bZt5SciE8cTcZwE6Z\_6r4Qb\_PBHH\_b6Xi0s2mEmf597lCLwGvsqiUEXomRU4l\_WXKh3Hnlt6TxWQMRXBsAJhGaw1oU3K7pjSa6guqqujr5XzTnPBb0diWi\_ewl7ROJs1j35kxP8KkvzM7zR3L3ZczgOZTIYtNCfmRVvollABKtHr2ncYKdKVWKNsxQ3F\_evUspFxQXRM-Be7sx2qzyS6NIVUMwUslHUXQMuczx-3K0UGs4ssb4auyUA6s-KNxsjd2NR2pD4sXGedQ7oHRhfbtKNyK1VC0l47Gk5wtblo\_kAOTgwzgeNjEth4KkKZzRBfQPdErTShe74hb9s6uU7mT6q9wghfgUZSSyWVUq76sxGFidjFJcAOBqHWt4MwjQ4ORe1jcl1CsUDQK2OZkwUluF\_qipR1pqiojI\_KM-2lnXHQ-1TVPlch0mzvJCFhKnejiatjr1IC7b8sDUBypHs2ZVNfrTqF5ZymIRKjxVKEqrZuOpFGgKUIYpyj5OPCJLOw-bpZazRAYA4BOoAYD\_34LKbuESxphkwIZO7Bi7sVL5n8j5DjTdC\_ug0LP8Cxi9oD\_89QPQGLB80kSvG8ZuznoCFRiip

 **Successfully stopped i-04e413a4e2e53a7a7** 

[EC2](#) > [Instances](#) > i-04e413a4e2e53a7a7

**Instance summary for i-04e413a4e2e53a7a7 (WebServer)** [Info](#)















Connect

Instance state ▼

Actions ▼

Updated less than a minute ago

Instance ID  i-04e413a4e2e53a7a7 (WebServer)	Public IPv4 address  3.239.250.35   <a href="#">open address</a> 	Private IPv4 addresses  10.1.11.92
IPv6 address -	Instance state  Stopping	Public IPv4 DNS  ec2-3-239-250-35.compute-1.amazonaws.com   <a href="#">open address</a> 
Hostname type IP name: ip-10-1-11-92.ec2.internal	Private IP DNS name (IPv4 only)  ip-10-1-11-92.ec2.internal	
Answer private resource DNS name -	Instance type t2.micro	Elastic IP addresses -
Auto-assigned IP address  3.239.250.35 [Public IP]	VPC ID  vpc-089da935dbd1cac0e (Lab VPC) 	AWS Compute Optimizer finding  User: arn:aws:iam::058264312517:user/spl6

# CC Lab

## AWS: 9

Amazon SNS > Topics

Topics (1) Edit Delete Publish message Create topic

< 1 > ⚙️

	Name	Type	ARN
<input type="radio"/>	<a href="#">MoneyAlert</a>	Standard	arn:aws:sns:us-east-1:654654616...

aws Services  [Alt+S] N. Virginia voclabs/user3127371=21052158@kiiit.ac.in @ 6546-5461-6993

Amazon SNS ×

Dashboard  
Topics  
Subscriptions

▼ Mobile  
Push notifications  
Text messaging (SMS)  
Origination numbers

**New Feature**  
Amazon SNS now supports in-place message archiving and replay for FIFO topics. [Learn more](#)

✓ **Subscription to MoneyAlert created successfully.**  
The ARN of the subscription is arn:aws:sns:us-east-1:654654616993:MoneyAlert:f74dbd3e-a60e-4296-b33c-ab915f0391f9.

Amazon SNS > Topics > [MoneyAlert](#) > Subscription: f74dbd3e-a60e-4296-b33c-ab915f0391f9

### Subscription: f74dbd3e-a60e-4296-b33c-ab915f0391f9

Edit Delete

**Details**

ARN arn:aws:sns:us-east-1:654654616993:MoneyAlert:f74dbd3e-a60e-4296-b33c-ab915f0391f9	Status ⌚ Pending confirmation
Endpoint jenit2383harnesha@gmail.com	Protocol EMAIL

✓ **Successfully created alarm [MoneyAlertAlarm](#).** View alarm ×

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

CloudWatch > Alarms

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

Alarm state: Any Alarm type: Any Actions status: Any < 1 > ⚙️

<input type="checkbox"/>	Name	State	Last state update	Conditions
<input type="checkbox"/>	<a href="#">MoneyAlertAlarm</a>	⌚ Insufficient data	2024-03-18 06:31:43	EstimatedCharges > 100 for 1 datapoints within 6 hours