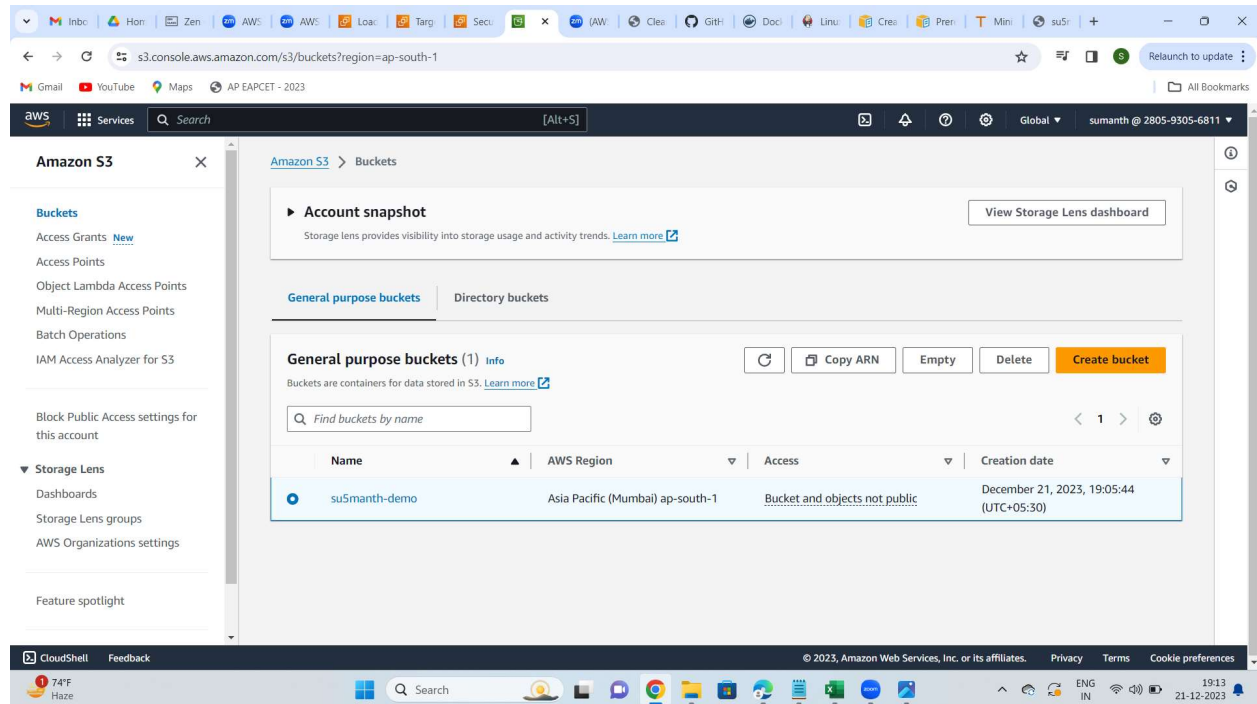
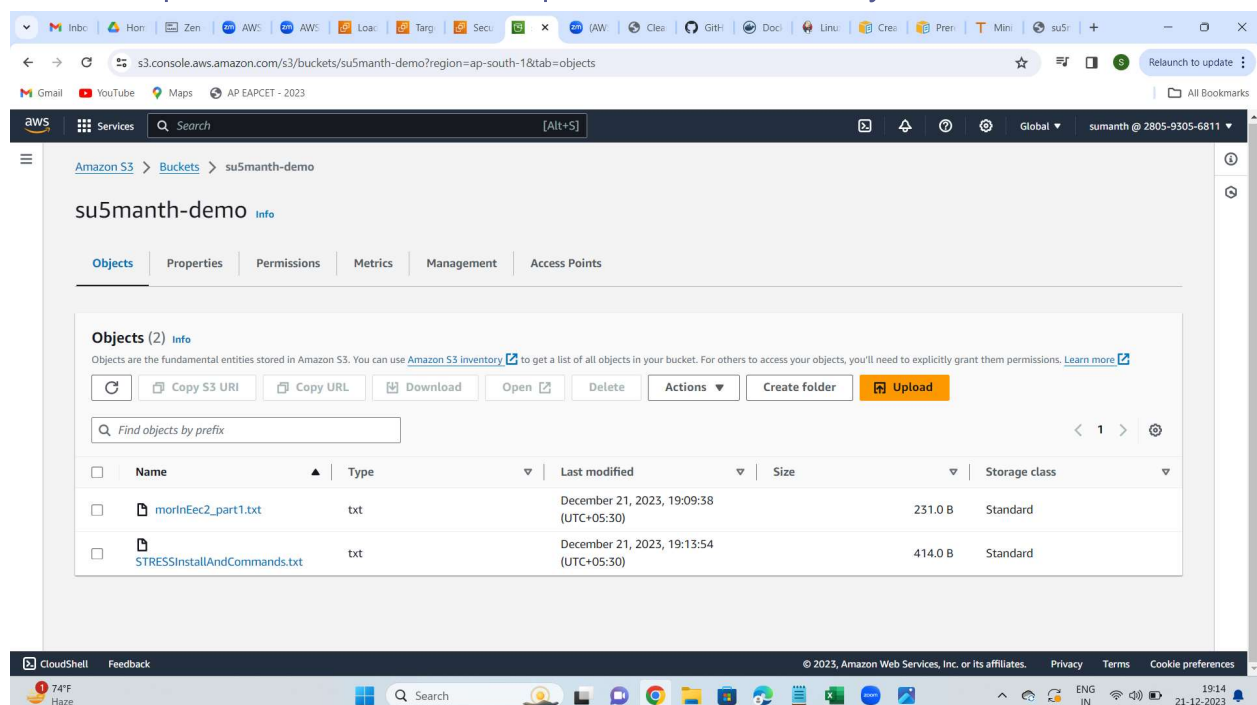


1. Create a S3 bucket, with no public access and upload files to the bucket 2. Launch two ec2-instances and connect it to a application load balancer, where the output traffic from the server must be an load balancer IP address

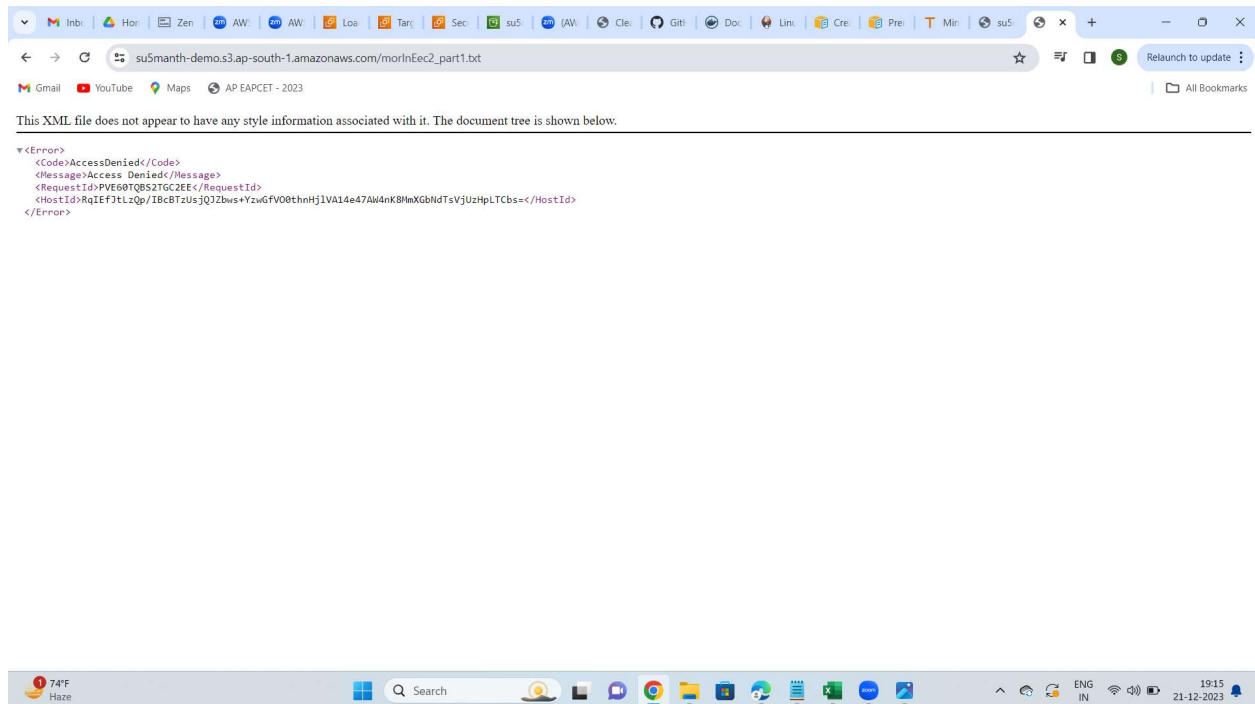
1. Create a S3 bucket, with no public access and upload files to the bucket  
The bucket that i have created



The below picture shows that i have upload the two files in my bucket

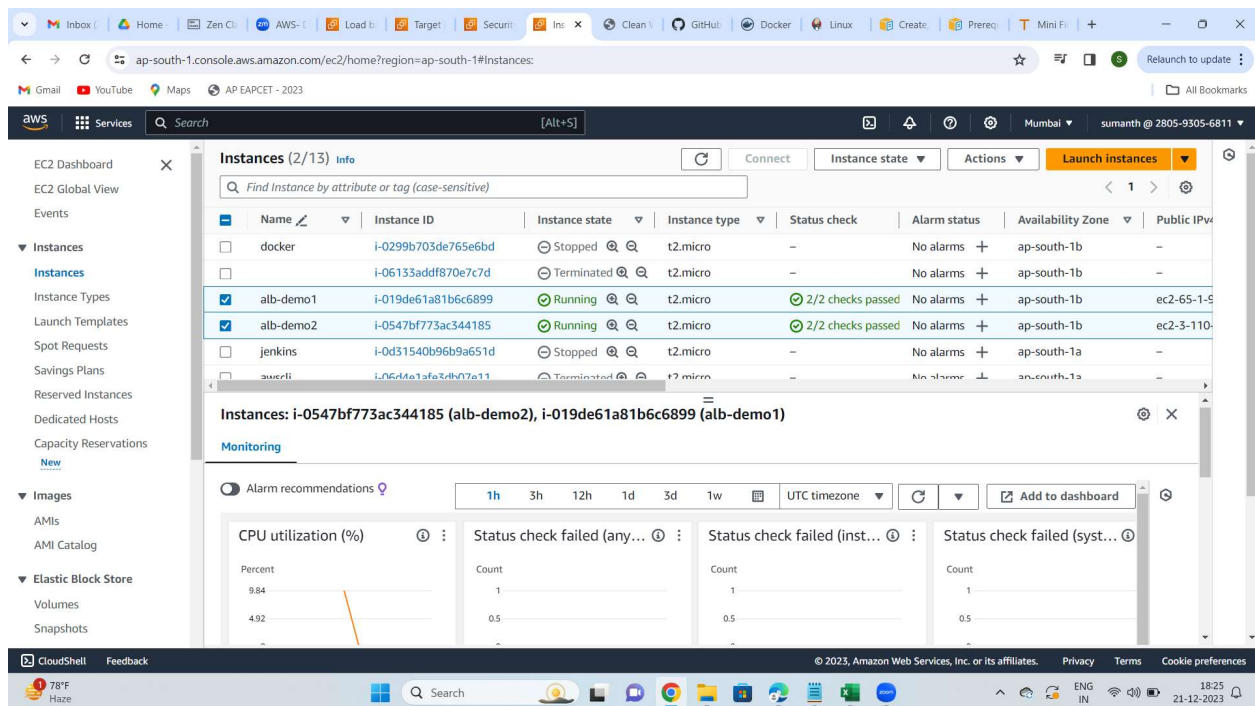


The below picture shows no access to the public

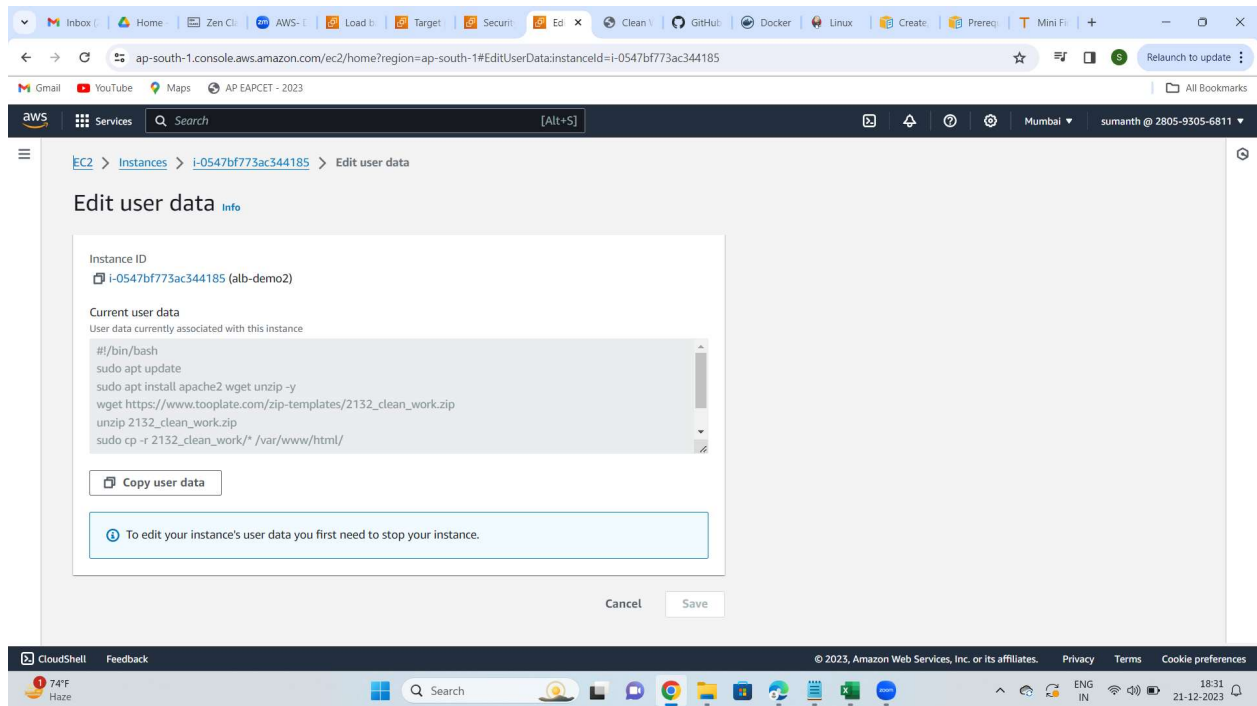


2. Launch two ec2-instances and connect it to a application load balancer, where the output traffic from the server must be an load balancer IP address

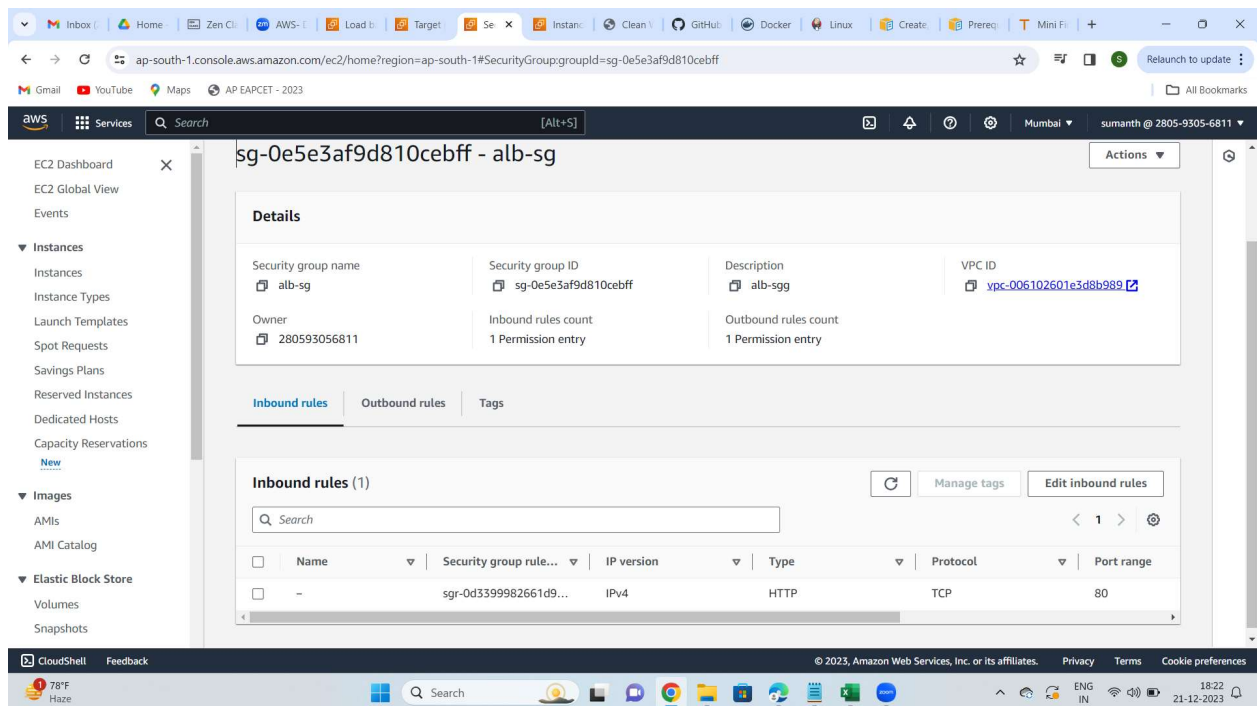
The below picture shows the TWO instances created for load balancer



The below picture shows the script that i have given in user data



The security that i have created



## The target group that i have created

The screenshot shows the AWS Management Console interface for a target group named 'alb-tg'. The console is in the 'ap-south-1' region. A green banner at the top states: 'Successfully created the target group: alb-tg. Anomaly detection is automatically applied to all registered targets. Results can be viewed in the Targets tab.' The left sidebar shows the navigation menu with categories like EC2 Dashboard, Instances, Images, and Elastic Block Store. The main content area displays the 'alb-tg' details, including its ARN, target type (Instance), protocol (HTTP), and VPC ID. A summary row at the bottom shows 2 total targets, all of which are healthy.

EC2 Dashboard  
EC2 Global View  
Events

▼ Instances  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Capacity Reservations  
[New](#)

▼ Images  
AMIs  
AMI Catalog

▼ Elastic Block Store  
Volumes  
Snapshots

CloudShell Feedback

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## The final load balancer that i have created

The screenshot shows the AWS Management Console interface for a load balancer named 'alb'. The console is in the 'ap-south-1' region. The left sidebar shows the navigation menu. The main content area displays the 'Load balancers (1)' section, showing a table with one load balancer named 'alb' in an 'Active' state. Below the table, a message states '0 load balancers selected' and 'Select a load balancer above.' The console also shows a 'Create load balancer' button and a 'Filter load balancers' search bar.

Load balancers (1)

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

Filter load balancers 1 match

alb X Clear filters

<input type="checkbox"/>	Name	DNS name	State	VPC ID	Availability Zones	Type
<input type="checkbox"/>	alb	alb-996905870.ap-south-...	Active	vpc-006102601e3d8b...	3 Availability Zones	application

0 load balancers selected

Select a load balancer above.

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## The two instances that i have created for the target

**alb-tg**

Introducing Automatic Target Weights (ATW) to increase application availability  
Automatic Target Weights is achieved by turning on anomaly mitigation, which provides responsive, dynamic distribution of traffic to targets based on anomaly detection results. All HTTP/HTTPS target groups now include anomaly detection by default. [Learn more](#)

**Details**

arn:aws:elasticloadbalancing:ap-south-1:280593056811:targetgroup/alb-tg/7dfc414147407618

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-006102601e3d8b989
IP address type	Load balancer		
IPv4	None associated		

2 Total targets

2 Healthy

0 Unhealthy

0 Unused

0 Initial

0 Draining

0 Anomalous

**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 (2)** [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

	Instance ID	Name	Port	Zone	Health status	Health status details	Anomaly detect
<input type="checkbox"/>	i-019de61a81b6c6899	alb-demo1	80	ap-south-1b	Healthy	-	Normal
<input type="checkbox"/>	i-0547bf773ac344185	alb-demo2	80	ap-south-1b	Healthy	-	Normal



The final output which taken from load balancer ip address:-  
"alb-996905870.ap-south-1.elb.amazonaws.com"

