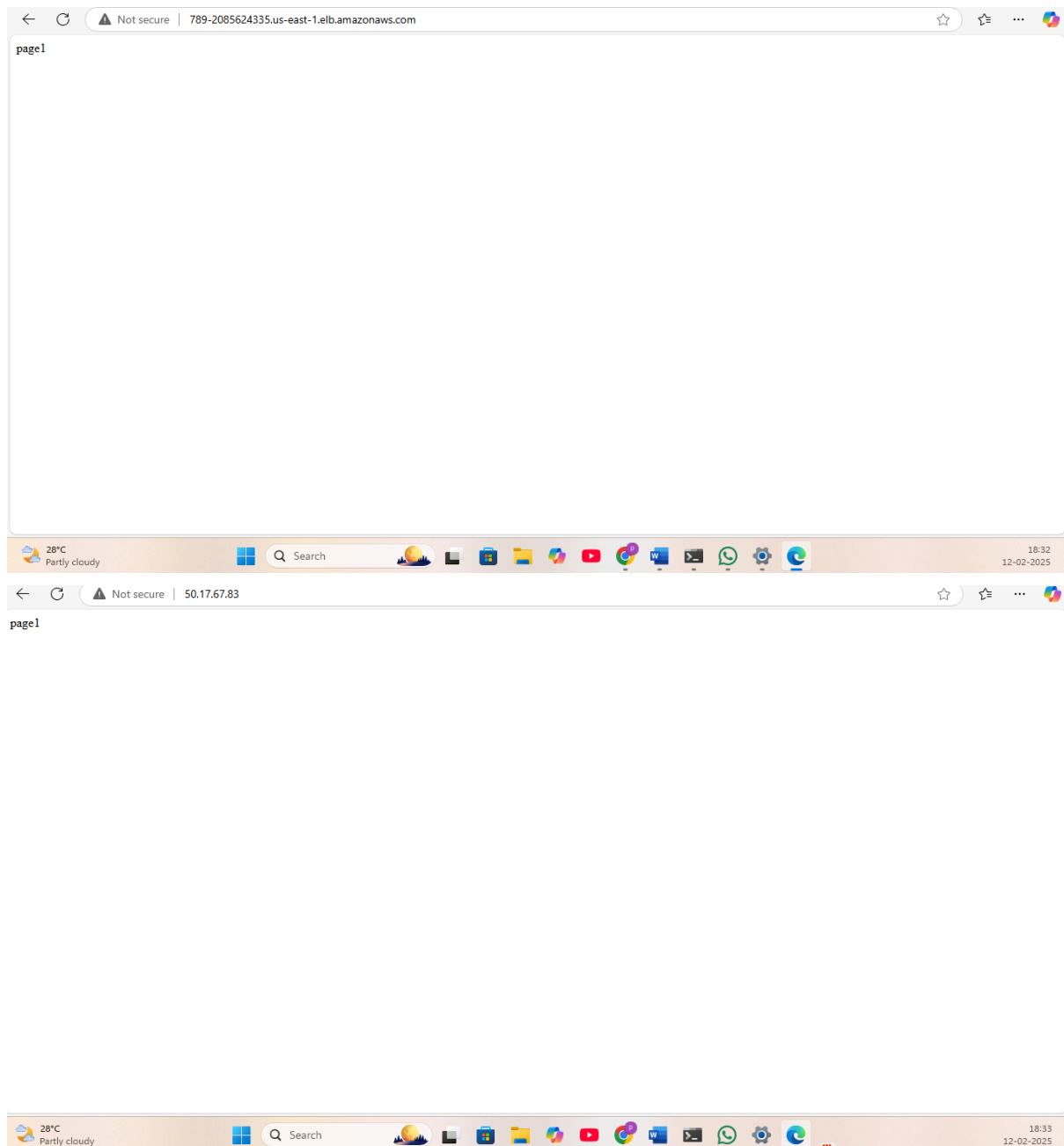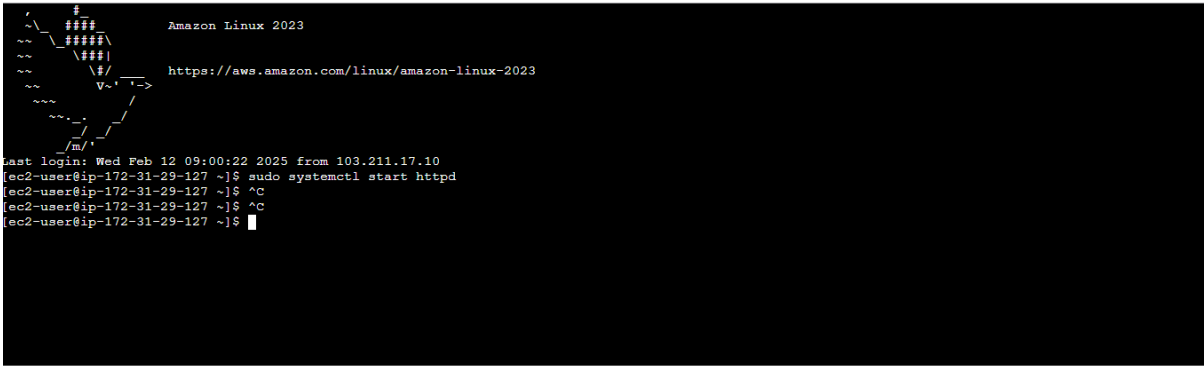Create a S3 bucket, with no public access and upload files to the bucket &
view the logs using cloudwatch for the uploaded files.

1. 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

```
    '     #_
  ~\__ ####_        Amazon Linux 2023
~~  \_#####\
~~     \###|
~~      \#/  ___    https://aws.amazon.com/linux/amazon-linux-2023
 ~~     V~' '->
  ~~~         /
    ~~._.   _/
       _/ _/
     _/m/'
Last login: Wed Feb 12 09:00:22 2025 from 103.211.17.10
[ec2-user@ip-172-31-29-127 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-29-127 ~]$ ^C
[ec2-user@ip-172-31-29-127 ~]$ ^C
[ec2-user@ip-172-31-29-127 ~]$
```

i-06951764f96f73cdd (S1)

PublicIPs: 54.197.200.223   PrivateIPs: 172.31.29.127

28°C
Partly cloudy

18:33
12-02-2025

---

sys   0/0

EC2 > Instances > i-06951764f96f73cdd

- Dashboard
- EC2 Global View
- Events
- **Instances**
  - Instances
  - Instance Types
  - Launch Templates
  - Spot Requests
  - Savings Plans
  - Reserved Instances
  - Dedicated Hosts
  - Capacity Reservations
- **Images**
  - AMIs
  - AMI Catalog
- **Elastic Block Store**
  - Volumes

Instance summary for i-06951764f96f73cdd (S1) Info

Connect | Instance state ▼ | Actions ▼

Updated 38 minutes ago

Instance ID
i-06951764f96f73cdd

Public IPv4 address
54.197.200.223 | open address

Private IPv4 addresses
172.31.29.127

IPv6 address
–

Instance state
⊘ Running

Public IPv4 DNS
ec2-54-197-200-223.compute-1.amazonaws.com |
open address

Hostname type
IP name: ip-172-31-29-127.ec2.internal

Private IP DNS name (IPv4 only)
ip-172-31-29-127.ec2.internal

Answer private resource DNS name
IPv4 (A)

Instance type
t2.micro

Elastic IP addresses
–

Auto-assigned IP address
54.197.200.223 [Public IP]

VPC ID
vpc-08998f75e57ca2040

AWS Compute Optimizer finding
ⓘ Opt-in to AWS Compute Optimizer for recomm
endations.
| Learn more

IAM Role

Subnet ID
subnet-096c31287fa87454e

Auto Scaling Group name

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aws ▦ | 🔍 Search [Alt+S] | ⊡ 🔔 ⑦ ⚙ | United States (N. Virginia) ▾ | DEVOPS ▾

☰ EC2 > Target groups > 789

⦿ ⊡

0 Anomalous

Targets   Monitoring   Health checks   Attributes   Tags

Registered targets (0) 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   ‹ 1 › ⚙

☐	Instance ID ▽	Name ▽	Port ▽	Zone ▽	Health status ▽	Health status details

No registered targets
You have not registered targets to this group yet

Register targets

🌤 28°C Partly cloudy   ⊞ 🔍 Search   🔥 L ▥ 🖿 ◎ ▶ 🌐 P ▦ 🗔 ◎ 🌐   18:35 12-02-2025

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aws ▦ | 🔍 Search [Alt+S] | ⊡ 🔔 ⑦ ⚙ | United States (N. Virginia) ▾ | DEVOPS ▾

☰ EC2 > Load balancers

⦿ ⊡

⊘ Successfully deleted load balancer: arn:aws:elasticloadbalancing:us-east-1:864899837969:loadbalancer/app/load/b75af743ed4abdb5.   ✕

Load balancers (1/1)   ⟳   Actions ▾   **Create load balancer** ▾

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

🔍 Filter load balancers   ‹ 1 › ⚙

☑	Name		State ▽	VPC ID ▽	Availability Zones ▽	Typ
☑	789	⊘ DNS name copied ⧉ 789-2085624335.us-east-1....	⊘ Active	vpc-08998f75e57ca2040	2 Availability Zones	app

═

Load balancer: 789   ⌄

‹ **Details**   Listeners and rules   Network mapping   Resource map - *new*   Security   Monitoring   Integrati ›

Details

Load balancer type	Status	VPC	Load balancer IP address type
Application	⊘ Active	vpc-08998f75e57ca2040 ☒	IPv4
Scheme	Hosted zone	Availability Zones	Date created

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EC2 > Target groups

- Volumes
- Snapshots
- Lifecycle Manager

Network & Security
- Security Groups
- Elastic IPs
- Placement Groups
- Key Pairs
- Network Interfaces

Load Balancing
- Load Balancers
- Target Groups
- Trust Stores New

Auto Scaling
- Auto Scaling Groups

Settings

✓ 2 targets registered successfully to 789.

Target groups (1/2) Info

Actions ▼ | Create target group

< 1 >

	Name	ARN	Port	Protocol	Target type	Load balanc
☐	159	arn:aws:elasticloadbalancin…	80	HTTP	Instance	ⓘ None ass
☑	789	arn:aws:elasticloadbalancin…	80	HTTP	Instance	ⓘ None ass

=

Target group: 789 ⌄

healthy targets.

Filter targets

< 1 >

	Instance ID	Name	Port	Zone	Health status	Health status details
☐	i-06951764f96f73cdd	S1	80	us-east-1a (us…	⊘ Healthy	-
☐	i-005246be8efe980b0	S2	80	us-east-1a (us…	⊘ Healthy	-

CloudShell Feedback

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