

## AWS Task – 3

### Task Description:

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

> Step 1: Create a Private S3 Bucket to upload your files and another Bucket to check on your logs.

**Amazon S3**

- General purpose buckets
- Directory buckets
- Table buckets
- Access Grants
- Access Points for general purpose buckets
- Access Points for directory buckets
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

**Storage Lens**

- Dashboards
- Storage Lens groups
- AWS Organizations settings

**Account snapshot - updated every 24 hours** All AWS Regions [View Storage Lens dashboard](#)

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. [Learn more](#)

**General purpose buckets** Directory buckets

**General purpose buckets (2)** Info All AWS Regions [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

	Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/>	<a href="#">my-own-bucket-162</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	June 10, 2025, 11:05:58 (UTC+05:30)
<input type="radio"/>	<a href="#">my-personal-log-bucket-162</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	June 10, 2025, 11:16:01 (UTC+05:30)

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## > Step 2: Upload your files to main S3 Bucket and under the main S3 Bucket

Amazon S3 > Buckets > my-own-bucket-162

### my-own-bucket-162 [Info](#)

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

**Objects (2)** [Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">Galler_photo1.jpg</a>	jpg	June 10, 2025, 11:09:19 (UTC+05:30)	1.5 MB	Standard
<input type="checkbox"/>	<a href="#">Header_photo.jpg</a>	jpg	June 10, 2025, 11:09:27 (UTC+05:30)	3.0 MB	Standard

## under Server Access Logging give the target destination as S3 Log Bucket and

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Amazon S3 > Buckets > my-own-bucket-162 > Edit server access logging

### Amazon S3

- General purpose buckets
  - Directory buckets
  - Table buckets
  - Access Grants
  - Access Points for general purpose buckets
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  - Object Lambda Access Points
  - Multi-Region Access Points
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- Storage Lens
  - Dashboards
  - Storage Lens groups
  - AWS Organizations settings

### Edit server access logging [Info](#)

**Server access logging**  
Log requests for access to your bucket. [Learn more](#)

**Server access logging**  
☐ Disable  
☒ Enable

**Bucket policy will be updated**  
When you enable server access logging, the S3 console automatically updates your bucket policy to include access to the S3 log delivery group.

**Destination**  
Specify a destination bucket in the US East (N. Virginia) us-east-1 Region. To store your logs under a particular prefix, make sure that you include a slash (/) after the name of the prefix. Otherwise, the prefix will be added to the name of your log files.

s3://my-own-bucket-162 [Browse S3](#)

Format: s3://<bucket>/<optional-prefix-with-path>

**Destination Region**  
US East (N. Virginia) us-east-1

**Destination bucket name**  
my-own-bucket-162

**Destination prefix**  
-

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save the changes and wait for 10-15 minutes for affecting the changes.

> Step 3: Open the S3 Log Bucket and you will see the log updates.

**Amazon S3**

**my-personal-log-bucket-162** info

**Objects (20)** Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">2025-06-10-06-12-35-05AC0B9FD244077F</a>	-	June 10, 2025, 11:42:36 (UTC+05:30)	532.0 B	Standard
<input type="checkbox"/>	<a href="#">2025-06-10-06-13-56-66A5BC51CB84B0A9</a>	-	June 10, 2025, 11:43:57 (UTC+05:30)	581.0 B	Standard
<input type="checkbox"/>	<a href="#">2025-06-10-06-14-26-55CFCF12A63B7EBB</a>	-	June 10, 2025, 11:44:27 (UTC+05:30)	546.0 B	Standard
<input type="checkbox"/>	<a href="#">2025-06-10-06-15-06-FD22752D1ADF275C</a>	-	June 10, 2025, 11:45:07 (UTC+05:30)	1.1 KB	Standard
<input type="checkbox"/>	<a href="#">2025-06-10-06-15-11-3D21F07B40B145B4</a>	-	June 10, 2025, 11:45:12 (UTC+05:30)	1.8 KB	Standard

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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.

> Step 1: Launch 2 EC2 instances with Apache installed in each instances givinf different outputs.

**AWS** Search [Alt+S] Asia Pacific (Mumbai) Pranit

**EC2** > Instances

**Instances (2)** info Last updated less than a minute ago Connect Instance state Actions Launch instances

Find instance by attribute or tag (case-sensitive) All states

Instance state = running Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 Df
<input type="checkbox"/>	my-server-2	i-06a6a36a9b379f441	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-201-1f
<input type="checkbox"/>	web-server-1	i-03299c58d4d1f1cb7	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-235-9f

Select an instance

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> Step 2: Create a Target Group and include both the instances in that group and make sure both the instances are in healthy state.

aws target groups

EC2 > Target groups > web-target-group

### web-target-group

Details

arn:aws:elasticloadbalancing:ap-south-1:501406858319:targetgroup/web-target-group/e0d99fba446ad100

Target type Instance	Protocol : Port HTTP: 80	Protocol version HTTP1	VPC vpc-05b155217422d8a61
IP address type IPv4	Load balancer None associated		

2 Total targets	0 Healthy	0 Unhealthy	2 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)

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.

Anomaly mitigation: Not applicable

Deregister Register targets

Instance ID	Name	Port	Zone	Health status	Health status details	Administr...	Override d...	Launch...	Anomaly detection...
i-06a6a36a9b379f441	my-server-2	80	ap-south-1b (a...	Unused	Target group is not co...	-	-	June 23, 2...	Normal
i-03299c58d4d1f1cb7	web-server-1	80	ap-south-1b (a...	Unused	Target group is not co...	-	-	June 23, 2...	Normal

> Step 3: Create Application Load Balancer

aws Search [Alt+S]

EC2 > Load balancers

### Load balancers (1)

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

Filter load balancers

Name	DNS name	State	VPC ID	Availability Zones	Type	Date created
my-alb-pranit	my-alb-pranit-591277917.a...	Active	vpc-05b155217422d8a61	2 Availability Zones	application	June 23, 2025

0 load balancers selected

Select a load balancer above.

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> Step 4: Test it on browser using ALB DNS Name. And if you refresh it you'll see alternate between two.



