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Question:

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

Solution: Create a S3 bucket, with no public access and upload files to the bucket

Step:1

Creating a S3 bucket.

Buckets (1) Info				
Name	AWS Region	Access	Creation date	
mybucket-task1	US East (N. Virginia) us-east-1	Bucket and objects not public	November 1, 2023, 18:14:32 (UTC+05:30)	

Step:2

Uploading file in S3 bucket.

Upload succeeded
View details below.

Upload: status   Close

ⓘ The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded	Failed
s3://mybucket-task1	✓ 1 file, 108.0 B (100.00%)	⊖ 0 files, 0 B (0%)

Files and folders   Configuration

Files and folders (1 Total, 108.0 B)

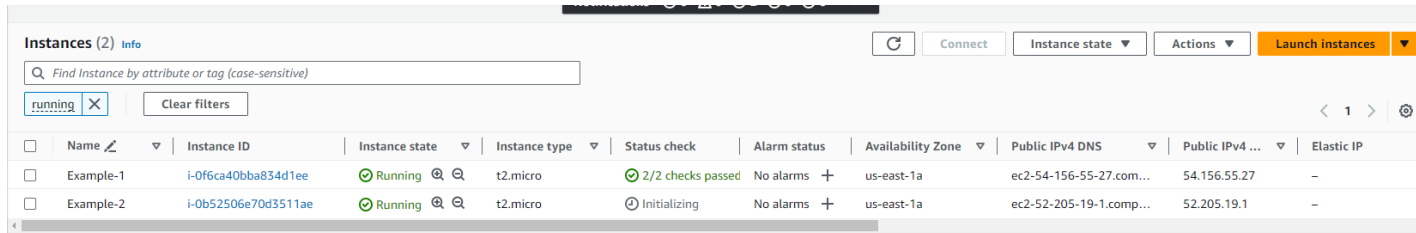| Name	Folder	Type	Size	Status	Error
HTML sample.txt	-	text/plain	108.0 B	✓ Succeeded	-

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

Creating two EC2 instances.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
Example-1	i-0f6ca40bba834d1ee	⊘ Running	t2.micro	⊘ 2/2 checks passed	No alarms +	us-east-1a	ec2-54-156-55-27.com...	54.156.55.27	–
Example-2	i-0b52506e70d3511ae	⊘ Running	t2.micro	⊘ Initializing	No alarms +	us-east-1a	ec2-52-205-19-1.comp...	52.205.19.1	–

Step:2

Installing Apache2 in Example-1 Instance.

```
root@ip-172-31-40-31:/home/ubuntu# sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Thu 2023-11-02 11:50:30 UTC; 49s ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2659 (apache2)
      Tasks: 55 (limit: 1121)
     Memory: 4.9M
        CPU: 34ms
     CGroup: /system.slice/apache2.service
             ─2659 /usr/sbin/apache2 -k start
             ─2661 /usr/sbin/apache2 -k start
             ─2662 /usr/sbin/apache2 -k start

Nov 02 11:50:30 ip-172-31-40-31 systemd[1]: Starting The Apache HTTP Server...
Nov 02 11:50:30 ip-172-31-40-31 systemd[1]: Started The Apache HTTP Server.
```

⚠ Not secure | 3.81.93.127

Apache2 Default Page

Ubuntu

It works!

Installing nginx in Example-2 instance.

```
ubuntu@ip-172-31-41-111:~$ sudo systemctl status nginx
• nginx.service - A high performance web server and a reverse proxy server
     Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
     Active: active (running) since Thu 2023-11-02 11:57:51 UTC; 22s ago
       Docs: man:nginx(8)
    Process: 2562 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
    Process: 2563 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Main PID: 2656 (nginx)
      Tasks: 2 (limit: 1121)
     Memory: 4.3M
        CPU: 26ms
     CGroup: /system.slice/nginx.service
             ├─2656 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─2659 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" "" ""

Nov 02 11:57:51 ip-172-31-41-111 systemd[1]: Starting A high performance web server and a reverse proxy server...
Nov 02 11:57:51 ip-172-31-41-111 systemd[1]: Started A high performance web server and a reverse proxy server.
```

⚠ Not secure | 3.87.19.203

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

Step:3

      Creating a Target group.

EC2 > Target groups

Target groups (1) Info   ⟳   Actions ▼   **Create target group**

🔍 Filter target groups   ‹ 1 ›   ⚙

	Name ▽	ARN ▽	Port ▽	Protocol ▽	Target type ▽	Load balancer ▽
☐	TestingLoadBalancer	⧉ arn:aws:elasticloadbalanci…	80	HTTP	Instance	ⓘ None associated

Targets   Monitoring   Health checks   Attributes   Tags

Registered targets (2)   ⟳   Deregister   Register targets

🔍 Filter targets   ‹ 1 ›   ⚙

	Instance ID ▽	Name ▽	Port ▽	Zone ▽	Health status ▽	Health status details
☐	i-0f6ca40bba834d1ee	Example-1	80	us-east-1a	⊝ Unused	Target group is not config…
☐	i-0b52506e70d351…	Example-2	80	us-east-1a	⊝ Unused	Target group is not config…

Step:4

Creating a Application Load Balancer.

Output: