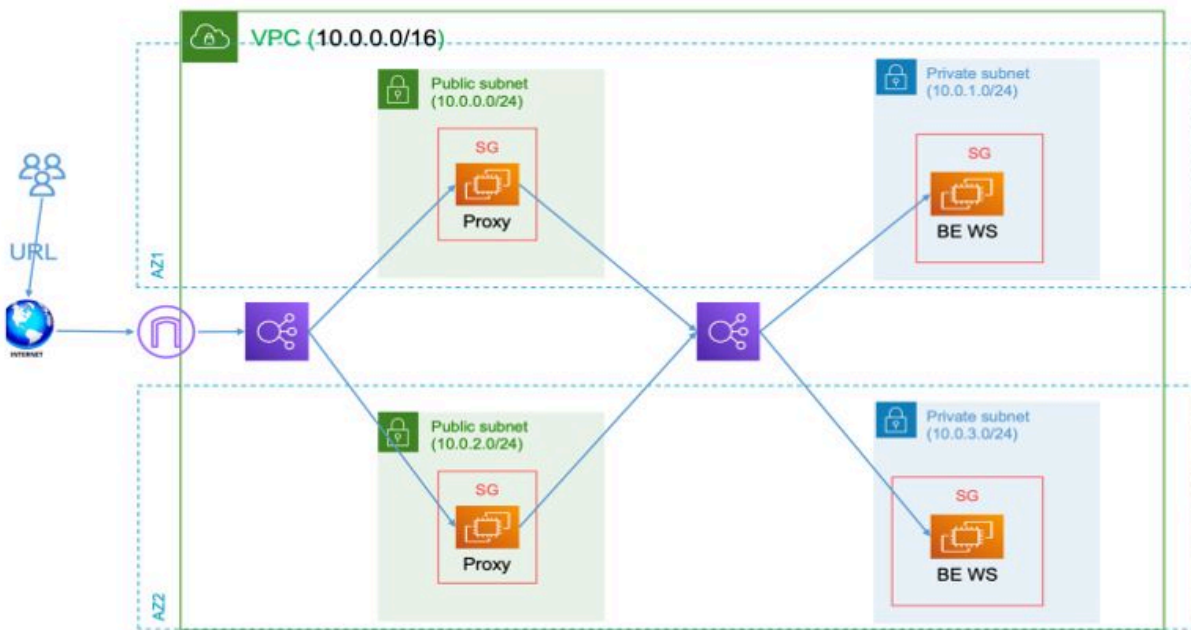


Name: ahmed maher

Terraform: lab3



Load balancers:

Load balancers (1/2)

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

Filter load balancers

	Name	State	Type	Scheme	IP address type
<input type="checkbox"/>	multi-tier-private-alb	Active	application	Internal	IPv4
<input checked="" type="checkbox"/>	multi-tier-public-alb	Active	application	Internet-facing	IPv4

Vpc:

Filter vpcs by name or id

	Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table
<input type="checkbox"/>	multi-tier-proxy-vpc	vpc-03a878db9449d36ee	Available	Off	10.0.0.0/16	-	dopt-0dfc98a27cdcea1a	rtb-0d829279ced2
<input type="checkbox"/>	-	vpc-05c32ecffdebd69ee	Available	Off	172.31.0.0/16	-	dopt-0dfc98a27cdcea1a	rtb-06616356f47c

Subnets:

multi-tier-proxy-private-subnet-1	subnet-0b300d05004ba14c1	✔ Available	vpc-03a878db9449d36ee mul...	⊖ Off	10.0.2.0/24
multi-tier-proxy-public-subnet-2	subnet-0c5115e5692d11f3f	✔ Available	vpc-03a878db9449d36ee mul...	⊖ Off	10.0.3.0/24
multi-tier-proxy-private-subnet-2	subnet-02857a8856b31a155	✔ Available	vpc-03a878db9449d36ee mul...	⊖ Off	10.0.4.0/24
multi-tier-proxy-public-subnet-1	subnet-0e8c1009ee0e43e1f	✔ Available	vpc-03a878db9449d36ee mul...	⊖ Off	10.0.1.0/24

Instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
multi-tier-pro...	i-0f2daa77b669ba042	✔ Running	t3.micro	✔ 3/3 checks passsec	View alarms +	us-east-1a	ec2-34-238-42-178.co...	34.238.42.178
multi-tier-pro...	i-0e618839b8216a62a	✔ Running	t3.micro	✔ 3/3 checks passsec	View alarms +	us-east-1a	-	-
multi-tier-pro...	i-0f7789293f341b173	✔ Running	t3.micro	✔ 3/3 checks passsec	View alarms +	us-east-1a	ec2-34-205-156-222.co...	34.205.156.222
multi-tier-pro...	i-0b3781af2908490f1	✔ Running	t3.micro	✔ 3/3 checks passsec	View alarms +	us-east-1a	-	-

S3 bucket:

General purpose buckets (1) Info

⌂ Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

< 1 >

⚙

Name	AWS Region	Creation date
<input type="radio"/> terraform-iti-s3-bucket	US East (N. Virginia) us-east-1	September 22, 2025, 13:26:22 (UTC+03:00)

Dynamodb table:

Share your feedback on Amazon DynamoDB

Your feedback is an important part of helping us provide a better customer exp

Tables (1) Info

Find tables

☐

Name

Status

Partition key

☐

[terraform-state-lock-multi-tier-proxy](#)

✔ Active

LockID (S)

Screenshot from workspace dev:

```
PS C:\Users\pc\OneDrive\Desktop\terraform-lab-3> terraform workspace show dev
PS C:\Users\pc\OneDrive\Desktop\terraform-lab-3> █
```

Configuration of the proxy:

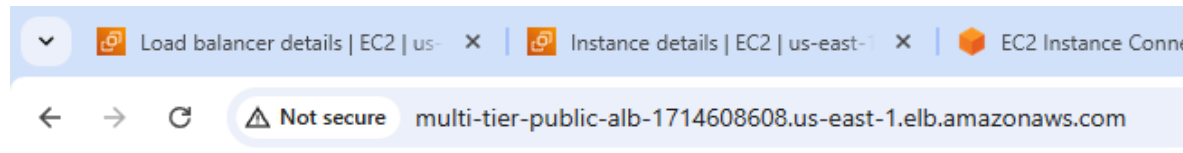
```
[ec2-user@ip-10-0-1-129 ~]$ cat /etc/httpd/conf.d/proxy.conf
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_http_module modules/mod_proxy_http.so

<VirtualHost *:80>
    # Health check endpoint - serve locally, don't proxy
    ProxyPass /health !

    # Proxy all other requests to private ALB
    ProxyPreserveHost On
    ProxyPass / http://internal-multi-tier-private-alb-455121708.us-east-1.elb.amazonaws.com/
    ProxyPassReverse / http://internal-multi-tier-private-alb-455121708.us-east-1.elb.amazonaws.com/
</VirtualHost>
[ec2-user@ip-10-0-1-129 ~]$ █
```

Or you can check the proxy configuration in the code of the user data of the public ec2.

Screenshot from sending an http req to the public load balancer and then it forwarding the proxy ec2 instances and then ec2 instances to private alb and then private alb to private ec2 instances.



Hello from Terraform Lab2 - Backend Server

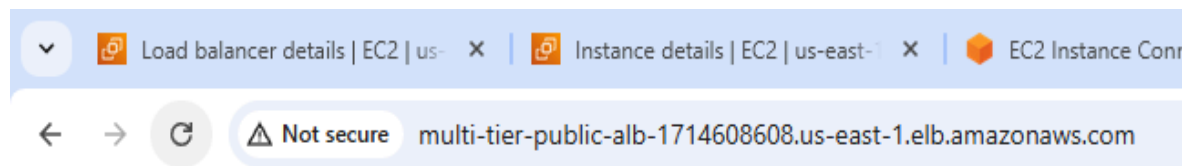
Instance ID: i-0b3781af2908490f1

Private IP: 10.0.2.94

Public IP:

404 - Not Found

Server Type: Backend



Hello from Terraform Lab2 - Backend Server

Instance ID: i-0e618839b8216a62a

Private IP: 10.0.2.84

Public IP:

404 - Not Found

Server Type: Backend

S3 containing tfstate file:

arm-iti-s3-bucket > env:/ > dev/

dev/

Objects

Properties

Objects (1)



Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create

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.

Find objects by prefix

Show versions

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	terraform.tfstate	tfstate	September 22, 2025, 13:47:26 (UTC+03:00)	114.7 KB	Standard