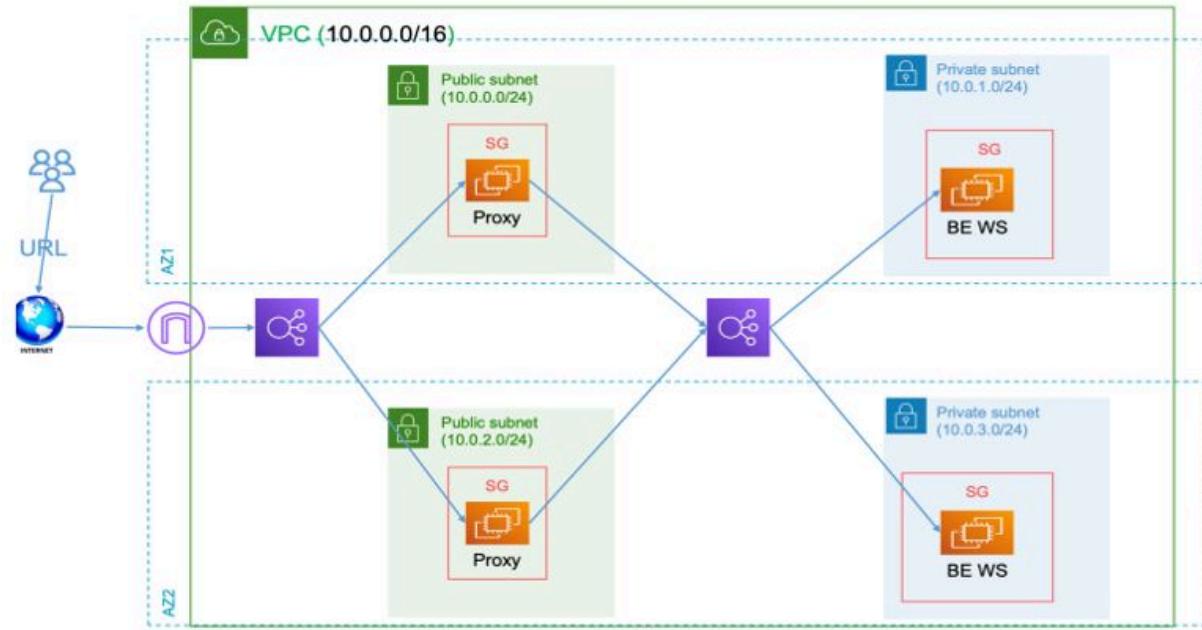


Terraform: lab3



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:

Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table
multi-tier-proxy-vpc	vpc-03a878db9449d36ee	Available	<input type="radio"/> Off	10.0.0.0/16	-	dopt-0dfc98a27cdcea1a	rtb-0d829279ced2
-	vpc-05c32ecffdebd69ee	Available	<input type="radio"/> 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	0/3 checks passed	View alarms +	us-east-1a	ec2-34-238-42-178.co...	34.238.42.178
multi-tier-pro...	i-0e618839b8216a62a	Running	t3.micro	0/3 checks passed	View alarms +	us-east-1a	-	-
multi-tier-pro...	i-0f7789295f341b173	Running	t3.micro	0/3 checks passed	View alarms +	us-east-1a	ec2-34-205-156-222.co...	34.205.156.222
multi-tier-pro...	i-0b3781af2908490f1	Running	t3.micro	0/3 checks passed	View alarms +	us-east-1a	-	-

S3 bucket:

General purpose buckets (1) [Info](#)

Buckets are containers for data stored in S3.

Find buckets by name

[Create bucket](#)

Name	AWS Region	Creation date
terraform-iti-s3-bucket	US East (N. Virginia) us-east-1	September 22, 2025, 13:26:22 (UTC+03:00)

Dynamodb table:

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:

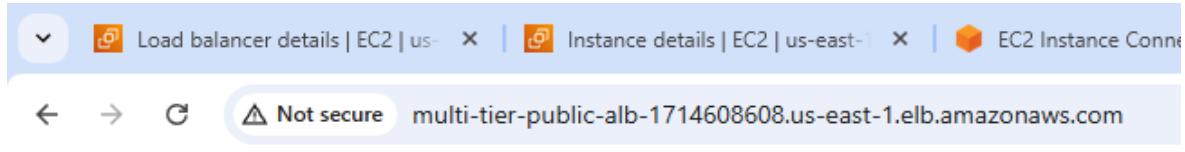
```
[ec2-user@ip-10-0-1-129 ~]$ cat /etc/httpd/conf.d/proxy.conf
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_http_module modules/mod_proxy_http.so

<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.



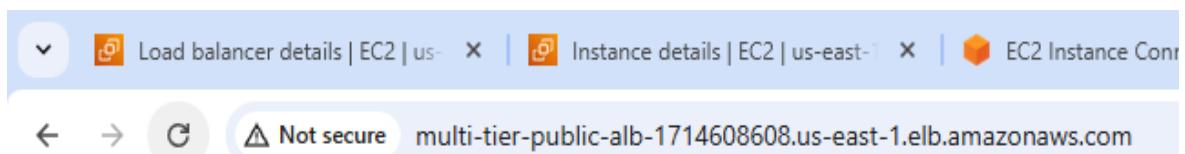
Instance ID: i-0b3781af2908490f1

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:

urm-it1-s3-bucket > [env/](#) > dev/

dev/

[Objects](#) [Properties](#)

Objects (1)

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 permission.

[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