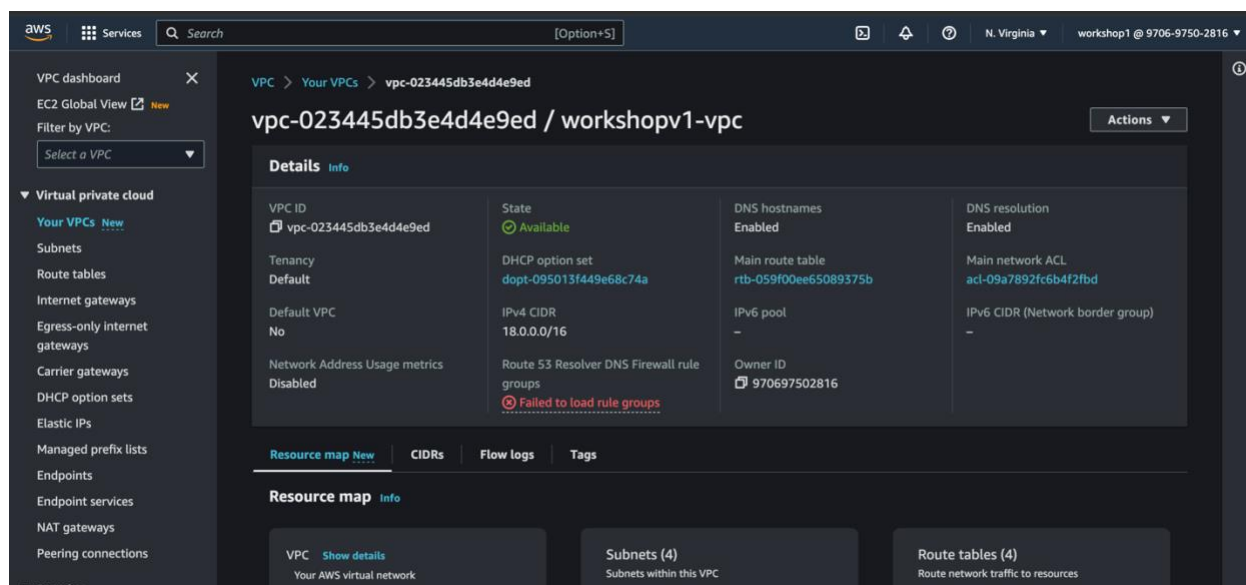
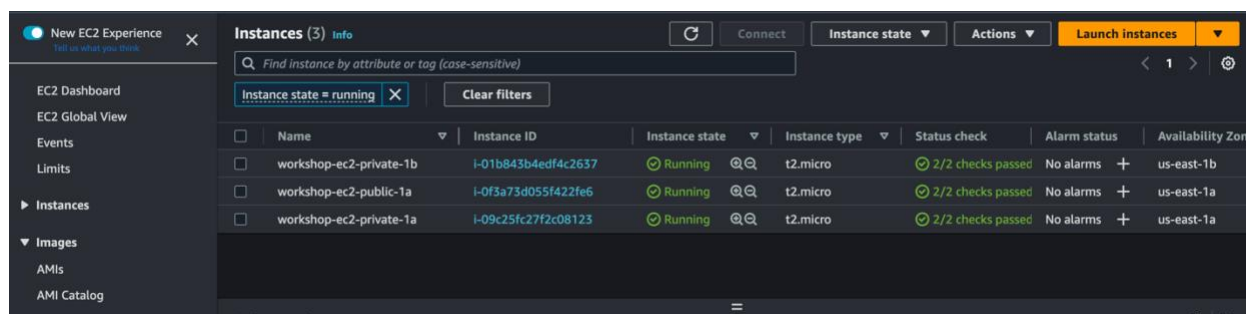


1. Created vpc with ip address 18.0.0.0/16



2. Created 3 instances

- 1 public instance in 1a in public subnet
- 2 private instances in 1a and 1b in private subnets



3. created load balance in public subnet in 1a and created a target group and attached both private instances

aws Services Search [Option+S] N. Virginia workshop1 @ 9706-9750-2816

New EC2 Experience

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Images

AMIs
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Elastic Block Store

Target type: Instance
Protocol : Port: TCP: 80
VPC: vpc-023445db3e4d4e9ed
IP address type: IPv4
Load balancer: lb-workshop

Total targets: 2
Healthy: 2
Unhealthy: 0
Unused: 0
Initial: 0
Draining: 0

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)

Filter resources by property or value

	Instance ID	Name	Port	Zone	Health status	Health status details
<input type="checkbox"/>	i-09c25fc27f2c08123	workshop-ec2-priv...	80	us-east-1a	healthy	
<input type="checkbox"/>	i-01b843b4edf4c2...	workshop-ec2-priv...	80	us-east-1b	healthy	

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Network & Security

Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

EC2 > Load balancers > lb-workshop

lb-workshop

Details

Load balancer type: Network
Status: Active
Scheme: Internet-facing
Hosted zone: Z26RNL4JYFTOTI
VPC: vpc-023445db3e4d4e9ed
Availability Zones: subnet-030bfcfe87bef39c9 (us-east-1b (use1-az2)), subnet-03369ad93a467e52c (us-east-1a (use1-az1))
IP address type: IPv4
Date created: June 12, 2023, 15:23 (UTC-05:00)

Load balancer ARN: arn:aws:elasticloadbalancing:us-east-1:970697502816:loadbalancer/net/lb-workshop/bfcd87e4f02b5b
DNS name: lb-workshop-bfcd87e4f02b5b.elb.us-east-1.amazonaws.com (A Record)

Listeners Network mapping Monitoring Integrations Attributes Tags

Listeners (1)

A listener checks for connection requests on its port and protocol. Traffic received by the listener is routed according to its rules.

4. connected to public instance and through public connected to private by agent forwarding
And installed the nginx in both private instances

```

Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
7/7

Installed:
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch      gperftools-libs-2.9.1-1.amzn2023.0.2.x86_64      libunwind-1.4.0-5.amzn2023.0.2.x86_64      nginx-1:1.24.0-1.amzn2023.0.1.x86_64
nginx-core-1:1.24.0-1.amzn2023.0.1.x86_64            nginx-filesystem-1:1.24.0-1.amzn2023.0.1.noarch    nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch

Complete!
[ec2-user@ip-18-0-157-223 ~]$ sudo systemctl start nginx
[ec2-user@ip-18-0-157-223 ~]$ sudo systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: disabled)
   Active: active (running) since Mon 2023-06-12 21:08:29 UTC; 39s ago
     Process: 26548 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
     Process: 26552 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
     Process: 26559 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
    Main PID: 26568 (nginx)
      Tasks: 2 (limit: 1114)
     Memory: 2.2M
        CPU: 58ms
    CGroup: /system.slice/nginx.service
            └─26568 "nginx: master process /usr/sbin/nginx"
              └─26570 "nginx: worker process"

Jun 12 21:08:29 ip-18-0-157-223.ec2.internal systemd[1]: Starting nginx.service - The nginx HTTP and reverse proxy server...
Jun 12 21:08:29 ip-18-0-157-223.ec2.internal nginx[26552]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Jun 12 21:08:29 ip-18-0-157-223.ec2.internal nginx[26552]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Jun 12 21:08:29 ip-18-0-157-223.ec2.internal systemd[1]: Started nginx.service - The nginx HTTP and reverse proxy server.
[ec2-user@ip-18-0-157-223 ~]$

```

```

(base) jana@Saitejas-Air-2 pem % ssh -A -i "work-shop.pem" ec2-user@44.204.208.127
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

Last login: Mon Jun 12 20:36:36 2023 from 78.122.208.146
[ec2-user@ip-18-0-12-172 ~]$ ssh ec2-user@18.0.135.247ssh ec2-user@18.0.135.247
ssh: Could not resolve hostname 18.0.135.247ssh: Name or service not known
[ec2-user@ip-18-0-12-172 ~]$ ssh ec2-user@18.0.135.247
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-18-0-135-247 ~]$ sudo yum install nginx -y
Last metadata expiration check: 0:37:24 ago on Mon Jun 12 20:16:57 2023.
Dependencies resolved.
=====
Package                                Architecture      Version                                Repository          Size
=====
Installing:
nginx                                  x86_64            1:1.24.0-1.amzn2023.0.1              amazonlinux          32 k
Installing dependencies:
generic-logos-httpd                   x86_64            18.0.0-12.amzn2023.0.3              amazonlinux          19 k
gperftools-libs                       x86_64            2.9.1-1.amzn2023.0.2               amazonlinux          389 k
libunwind                             x86_64            1.4.0-5.amzn2023.0.2               amazonlinux          66 k
nginx-core                            x86_64            1:1.24.0-1.amzn2023.0.1              amazonlinux          586 k
nginx-filesystem                      noarch            1:1.24.0-1.amzn2023.0.1              amazonlinux          9.0 k
nginx-mimetypes                      noarch            2.1.49-3.amzn2023.0.3               amazonlinux          21 k
=====
Transaction Summary
-----
Install 7 Packages
Total download size: 1.0 M

```

5. copied the dns name in browser

