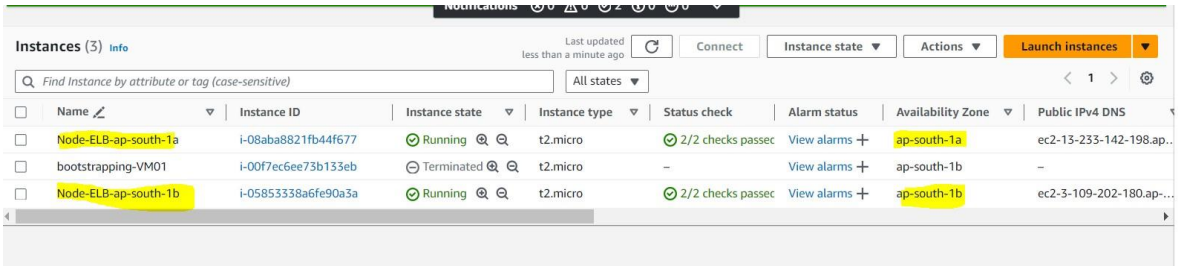
ELB (Elastic Load Balancer**)**

1) Create two instances in different zone of (ap-south-1)

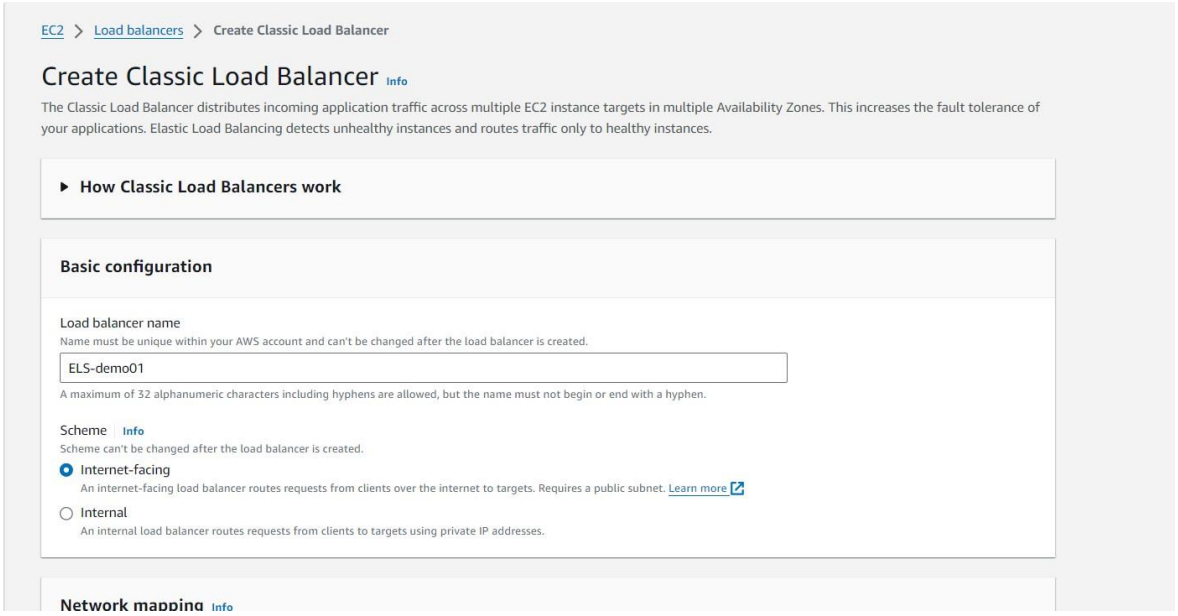
- Creating two instances in different zones of ap-south-1.



2) Creating Load balancer for running two instances

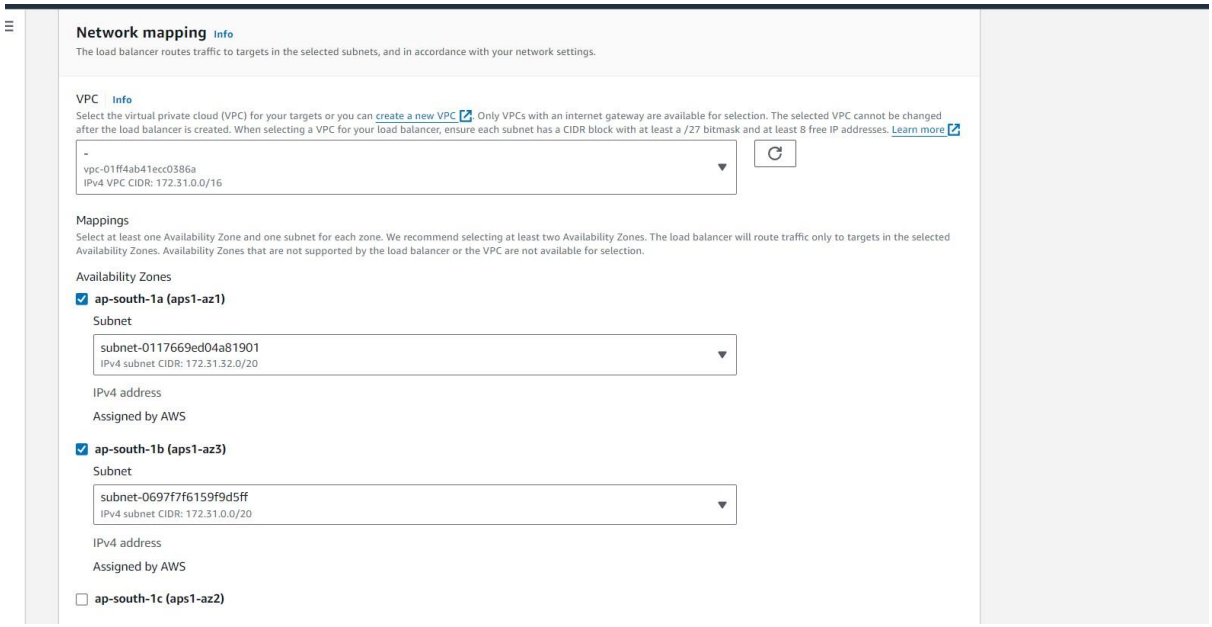
i. create classic load balancer

- Go to the EC2 Dashboard in the AWS Management Console.
- Under Load Balancing, select Load Balancers.
- Click Create Load Balancer.
- Choose Classic Load Balancer.
- Name the load balancer.
- Configure the listener settings (default: HTTP on port 80).
- Assign the load balancer to the appropriate VPC and subnets.



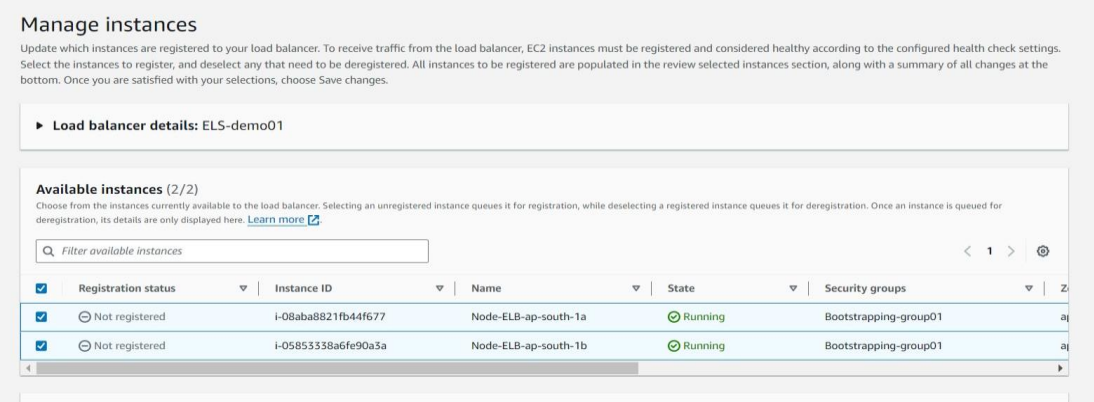
ii. Map the network for instances

- Select the appropriate VPC and subnets where your instances (prodserver01 and prodserver02) are located.
- Make sure the security groups for the instances allow HTTP (port 80) traffic.



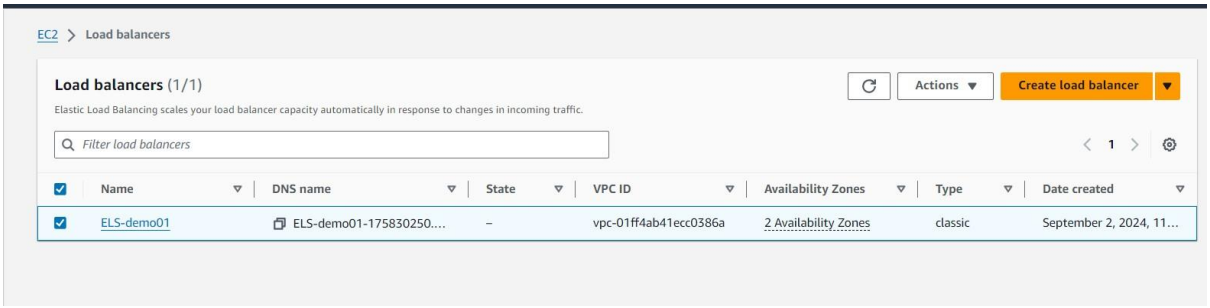
iii. attached instance to load balancer

- In the Instances section, select both instances (prodserver01 and prodserver02) to attach to the load balancer.
- Configure health checks (e.g., HTTP on /healthcheck.html).
- Review and create the load balancer.



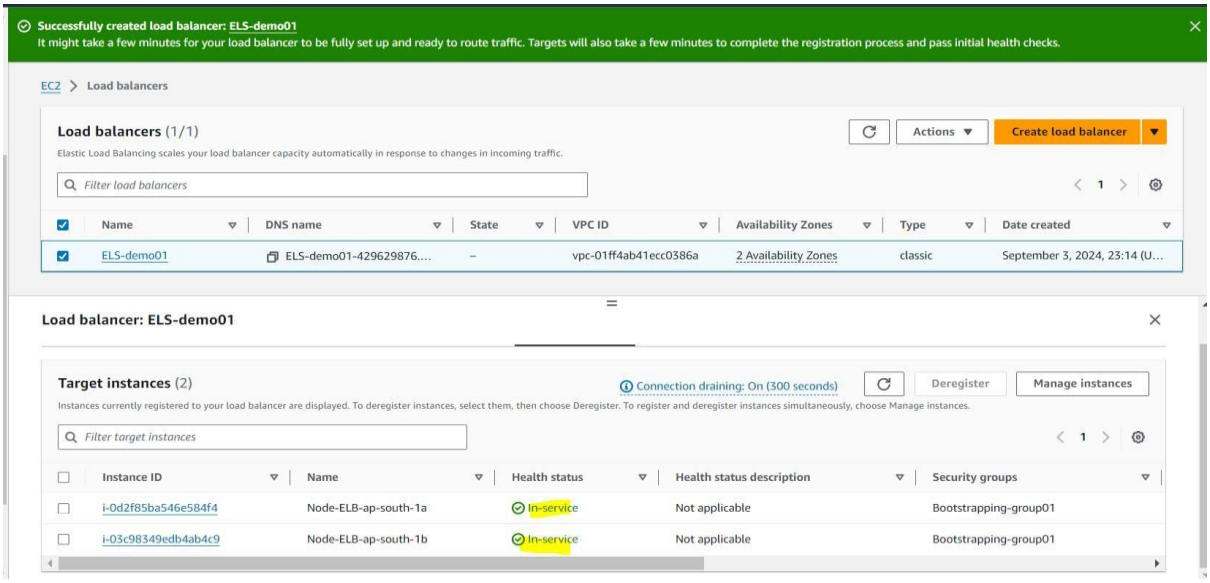
Iv. Successfully created load balancer

- After creating the load balancer, you will see it listed in the Load Balancers section.
- Wait for the load balancer to become active.

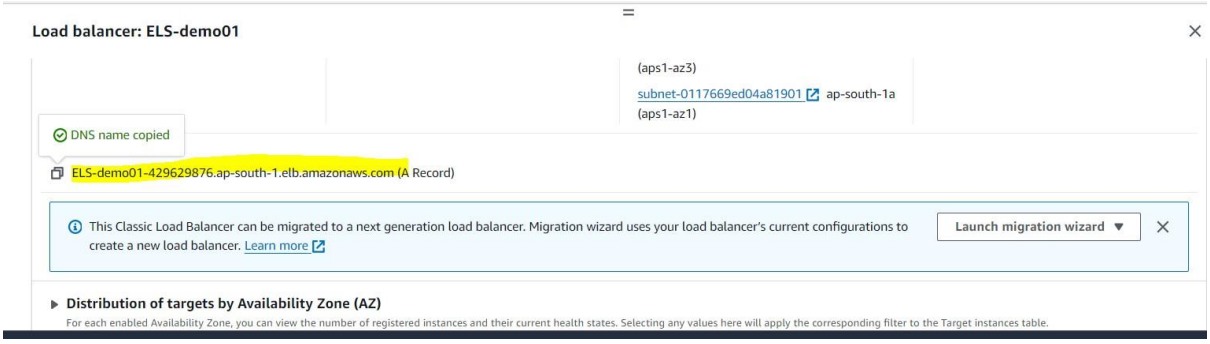


iv. both instances in-service status

- Go to the Instances tab within the Load Balancer section.
- Both instances should show as In-Service, indicating they are healthy and responding to the load balancer's health checks.



3. copy DNS name and paste in chrome
    - In the Load Balancers section, copy the DNS name of the load balancer.
    - Paste the DNS name into the Chrome browser.



4. output of index.html file
    - The browser will display the content of the index.html file hosted on one of the instances.

- Since a load balancer distributes traffic between instances, you might get the index.html from either prodserver01 or prodserver02.

5. output of healthcheck.html file
   - To check the health status, append /healthcheck.html to the load balancer's DNS name (e.g., ProdLoadBalancer XXXXXXXX.elb.amazonaws.com/healthcheck.html).
   - The browser should display the content of the healthcheck.html file, verifying that the instance is healthy.