

Working-



Install Agent

Install AWS Replication Agent on your source servers (manual or unattended installation). No reboot required.



Replicate to AWS

Application Migration Service automatically replicates entire servers, including operating system, applications, data, and configurations.



Perform tests

Use the Application Migration Service console to perform non-disruptive tests in AWS prior to initiating a cutover.

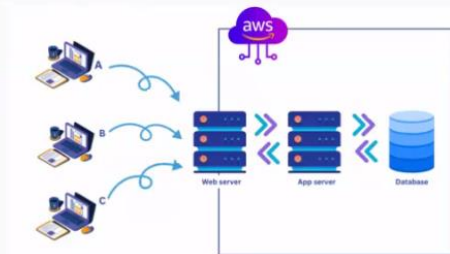


Execute cutover

When you are ready, use the Application Migration Service console to execute a successful cutover. Your servers are launched on AWS within minutes.

AWS-3-tier-project

- Deploying three tier application aws infrastructure.
- Build the infrastructure by using Terraform
- The three-tier architecture implemented in our system ensures robustness and resiliency in the face of disasters or regional failures.
- With Route 53 and CloudFront handling DNS routing and failover mechanisms, our system can seamlessly switch to a secondary region, guaranteeing uninterrupted website availability.
- The use of Application Load Balancers and the RDS database further enhances scalability and reliability in processing user requests and storing data.



Aws & devops by veera nareshit

Architecture of three-tier application.



VPC (permission)

Public access [Info](#)

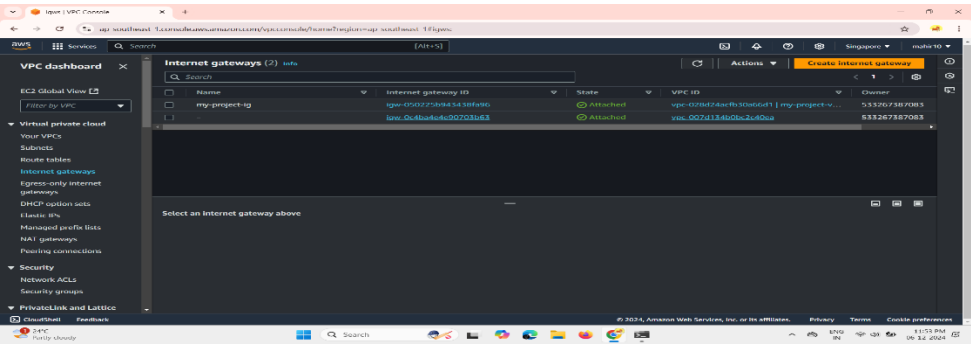
☐ Yes

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

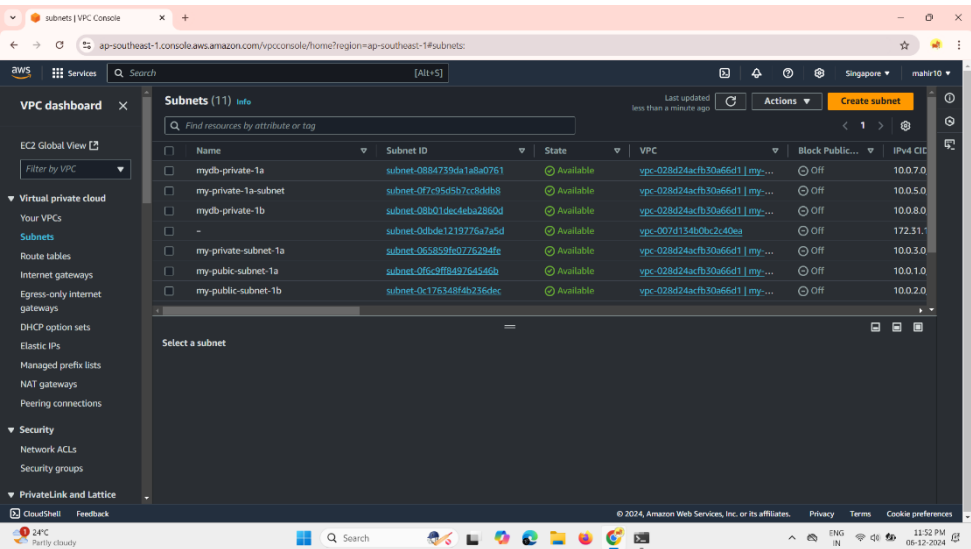
☒ No

RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

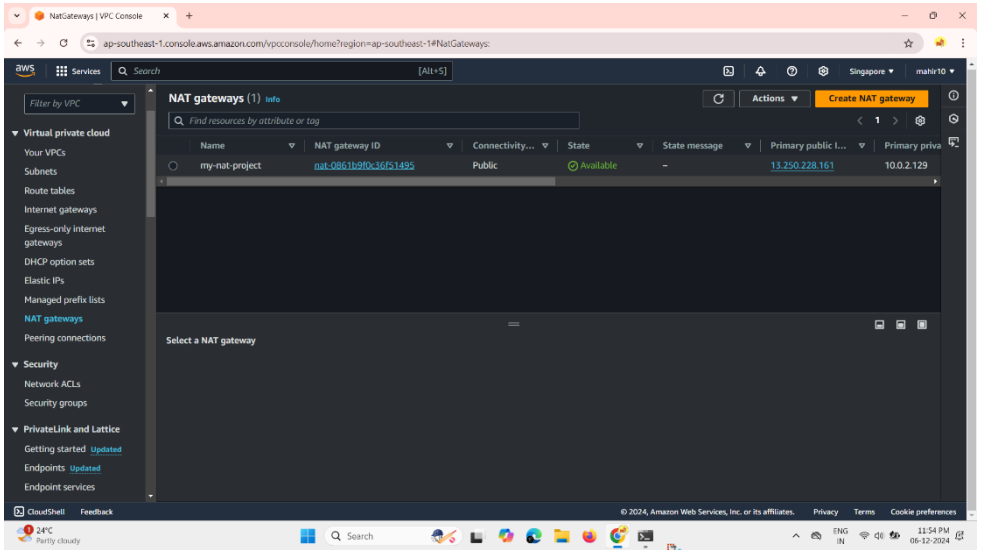
Internet Gateway



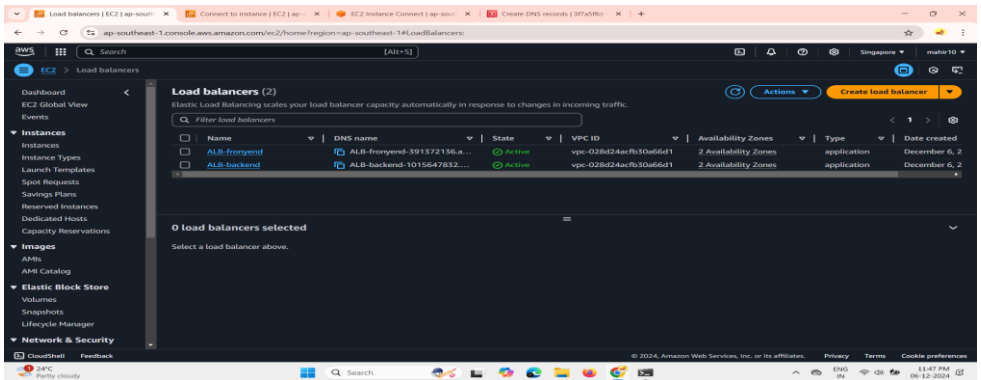
Subnet



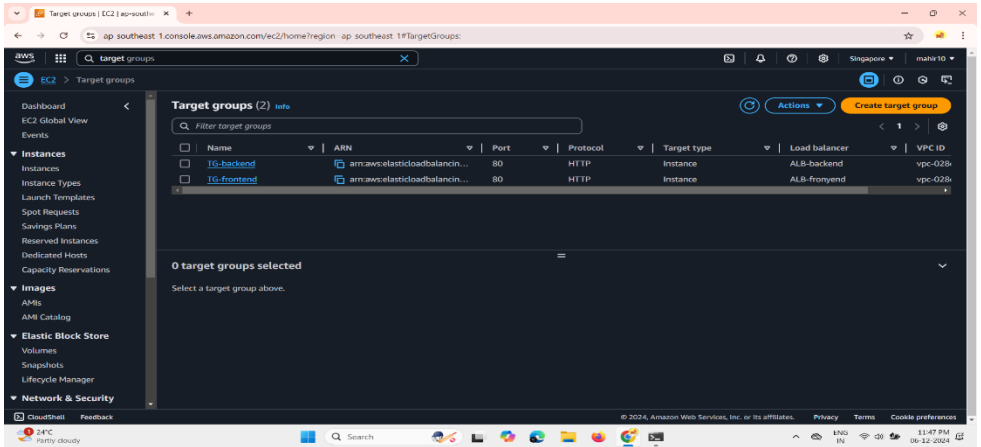
Nat gateway



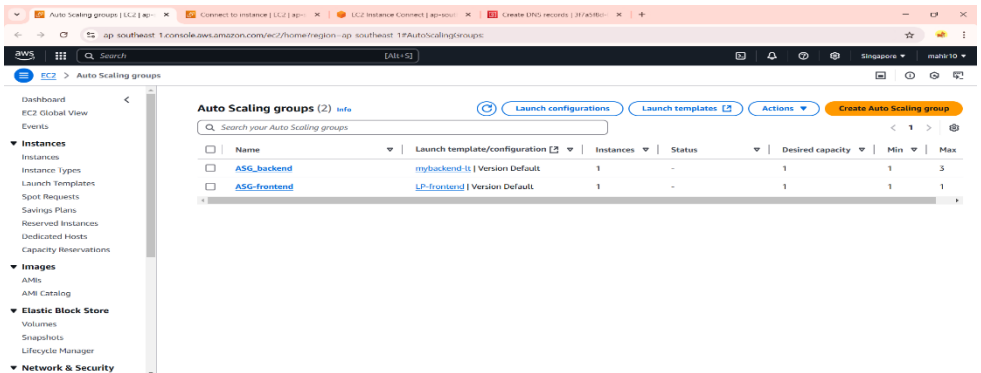
Load Balancer



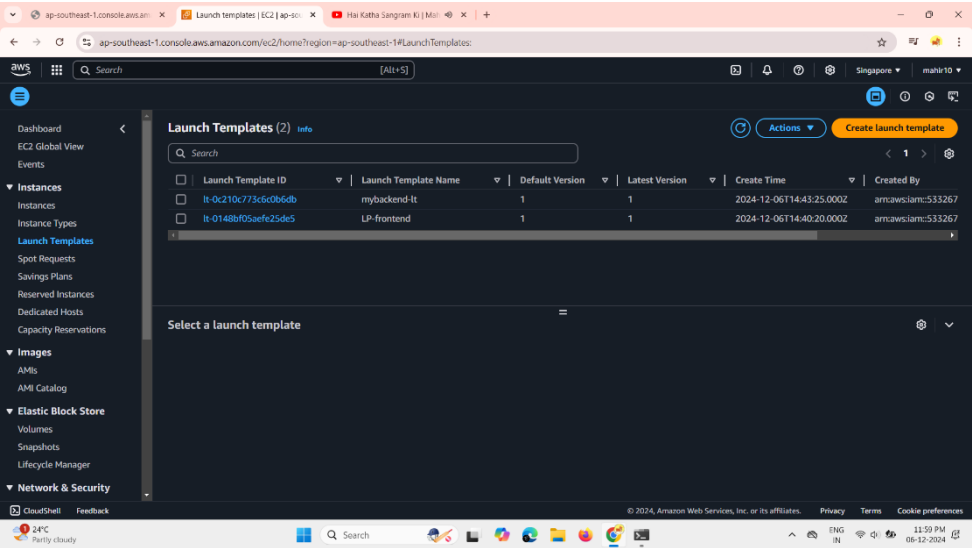
Target Group



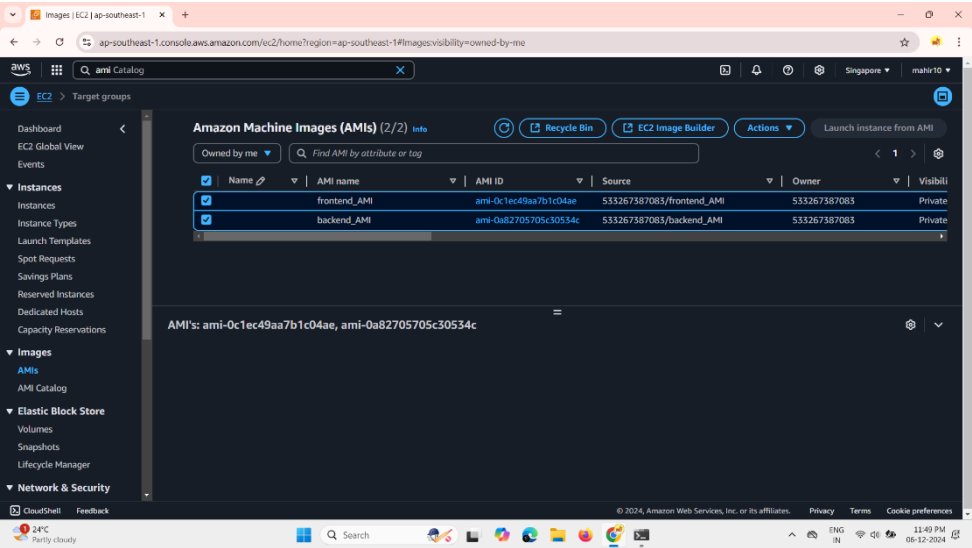
Auto Scaling



Launch Templet



AMI



Certificate Manager

Auto Scaling groups [EC2] ap-...

Connect to instance [EC2] ap-...

EC2 Instance Connect [ap-sou...

Certificate details [3f7a5f8d-0...

ap-southeast-1.console.aws.amazon.com/acm/home?region=ap-southeast-1#/certificates/3f7a5f8d-02cc-442a-a9ac-a9d328a4f32d

aws

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AWS Certificate Manager

Certificates

3f7a5f8d-02cc-442a-a9ac-a9d328a4f32d

Delete

AWS Certificate Manager (ACM)

List certificates

Request certificate

Import certificate

AWS Private CA

Certificate status

Identifier

3f7a5f8d-02cc-442a-a9ac-a9d328a4f32d

Status

Pending validation

ARN

arn:aws:acm:ap-southeast-1:533267387083:certificate/3f7a5f8d-02cc-442a-a9ac-a9d328a4f32d

Type

Amazon Issued

Domains (1)

Create records in Route 53

Export to CSV

< 1 >

Domain	Status	Renewal status	Type	CNAME name
swiggy.com	Pending validation	-	CNAME	_fx93a5794b1260d7a7db5a8840372a01.swi

Details

PowerShell/Mysql

```
root@ip-172-31-21-249:/w # git clone https://github.com/karishma1521success/swiggy-clone.git
Cloning into 'swiggy-clone'...
remote: Enumerating objects: 56, done.
remote: Counting objects: 100% (56/56), done.
remote: Compressing objects: 100% (45/45), done.
remote: Total 56 (delta 22), reused 0 (delta 10), pack-reused 0 (from 0)
Receiving objects: 100% (56/56), 18.81 KiB | 9.40 MiB/s, done.
Resolving deltas: 100% (22/22), done.
root@ip-172-31-21-249:/w # mv swiggy-clone/* .
root@ip-172-31-21-249:/w # ls
index.html  media-queries.css  style.css  swiggy-clone
root@ip-172-31-21-249:/w # systemctl start httpd
root@ip-172-31-21-249:/w # systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service + /usr/lib/systemd/system/httpd.service.
root@ip-172-31-21-249:/w # systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset
   Active: active (running) since Thu 2024-10-24 04:31:00 UTC; 6min ago
     Docs: man:httpd.service(8)
   Main PID: 26157 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; B
   Tasks: 177 (limit: 1112)
   Memory: 13.0M
   CPU: 239ms
   CGroup: /system.slice/httpd.service
           └─26157 /usr/sbin/httpd -DFOREGROUND
           └─26158 /usr/sbin/httpd -DFOREGROUND
           └─26159 /usr/sbin/httpd -DFOREGROUND
           └─26160 /usr/sbin/httpd -DFOREGROUND
           └─26161 /usr/sbin/httpd -DFOREGROUND

Oct 24 04:31:00 ip-172-31-21-249.ca-central-1.compute.internal systemd[1]:
Oct 24 04:31:00 ip-172-31-21-249.ca-central-1.compute.internal systemd[1]:
Oct 24 04:31:00 ip-172-31-21-249.ca-central-1.compute.internal httpd[26157]:
lines 1-19/19 (END)

root@ip-172-31-21-249:/w # sudo systemctl restart httpd
root@ip-172-31-21-249:/w # sudo systemctl is-enabled httpd
enabled
root@ip-172-31-21-249:/w # |
```

Deployed

