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- Project overview:
  BakeHouse website we have to deploy it on AWS using some services like “EC2, VPC, ASG, RDS, ALB, Internet gateway, NAT gateway, private subnets, public subnets” and make it high available.
- Objective:
  Deploy website on AWS using the services and making cost estimate
- AWS services:
  We used VPC to make a virtual private network and 4 subnets “2 private subnets and 2 public subnets one in each AZ” and internet gateway to have internet on the VPC and NAT gateway to make the private subnet on internet.

Then we made an ASG and ALB to manage traffic on the website to do horizontal scaling to hold all requests. We used t2.micro ec2 type to deploy the website on it using some bash commands on linux to enable http on the ec2 and to make instance host the website on it.

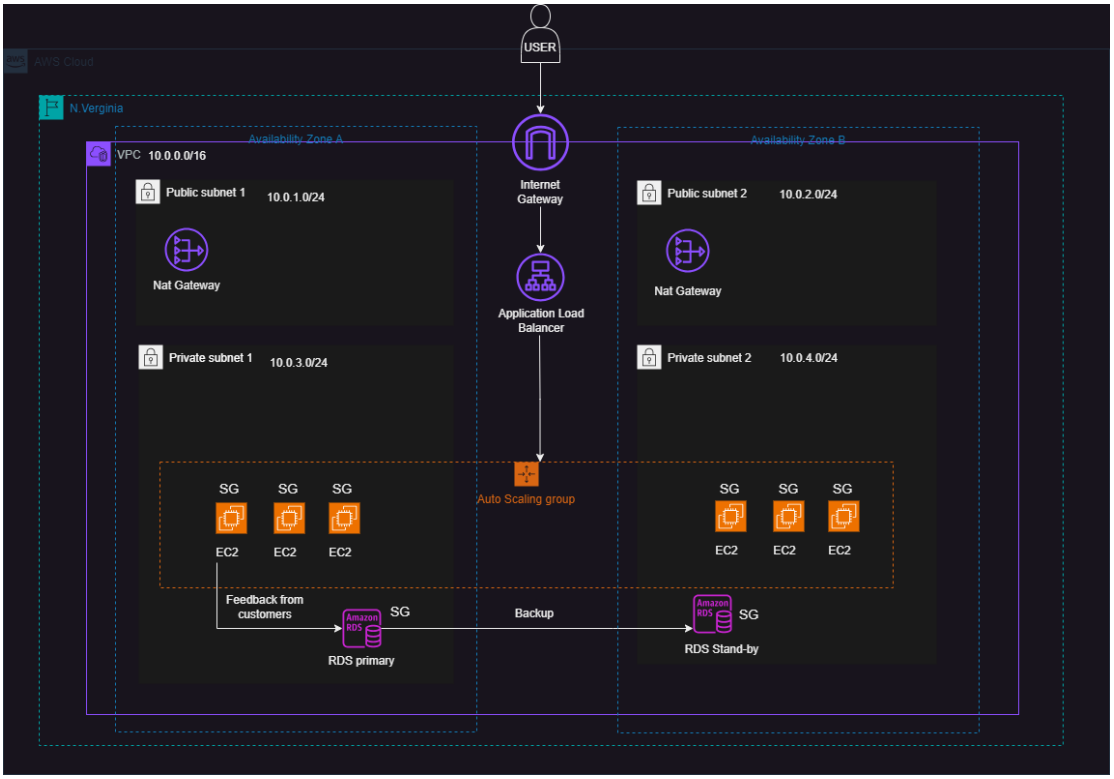
private subnet ec2

```
sudo dnf update -y
sudo dnf install -y httpd
sudo systemctl start httpd
sudo systemctl enable httpd
```

Make it server hosting website

```
sudo mv /tmp/* /var/www/html/
sudo chown -R apache:apache /var/www/html
sudo chmod -R 755 /var/www/html
```

- AWS diagram



- User story:

First of all customer enter the website using internet gateway to access the VPC, Internet gateway route the customer to the ALB that make you goes to the instance in the AZ near to him and he can make feedback it will be stored in RDS

- Cost estimation:

We have done a calculation using “AWS Pricing calculator” and we have done Financial Proposal and the final estimation was 14$ and the whole project actually used 12$


- Source code:

https://github.com/o-muhammad97/bakehouse-ITI/

- Future work:

We will add backend to the project and deploy it on the cloud also.