**COST ESTIMATION**

For query and Mutation per million request it costs $4=$4\*72.81=291.24/-

Data Transfer Charge per gigabyte is $0.99 approximately 72/-

Free Tier-2,50,000query

Data Transfer charge -1million queries and mutations per month with an average of response size of 5kilobyte it will cost $0.4

For Query Operation charge=1 million\*$4.00per million operation=$4.00

Total App Sync =$4.00+$0.4=$4.40\*72.81=320.364/-

If we use API that is best because its 0.5$ cheaper than AppSync

All data Transfer up to 1gb per month it does not charge. Exceding more than data for each giga byte data it will cost- $0.09

The AppSync API access the proxy for our backend functions it is same as rest API

API gateway replacing AppSync acting as proxy.

$3.5 for AppSync and 0.5$ cheaper than appsync to API.

**Lambda Pricing**

$2 per million requests

1M free requests per month and 400000GB seconds of compute them per month

If We allocated 512MB of memory to our function executed it 500000 times in one month and it ran for 1 second each time for one gigabyte of price $0.00001667 per GB and free tier proved 400000gb

Total seconds=500000 seconds

Total Compute=500000\*512MB/1024 = 2,50,000GB

For two function=2,50,000\*2=5,00,000GB

Total compute free tier monthly bill able compute GBS

5,00,000GB-400000(free tier GB) = 1,00,000GB

The total monthly compute change = 1,00,000\*$0.00001667=$1.67

**Lambda Request Charge**

The monthly request price is $0.20 per 1 million request and the free tier provides 1Million request per month

Total request = free tier request = Monthly billable request

5,00,000 request-1M free tier request=-50,000=0

Monthly request charge=0\*$0.2 per million=$0.00

**DynamoDB** there are two mode of pricing on demand

Provision mode – 1st method

Data storage – first 25GB stored per monthly is free=$0.25per GB monthly

Average item size=4K and total table size does not exceed 25GB

1. Eventual Consistent Read Request=8KB
2. 1 write Request-1KB

Read Request=1M\*0.25\*0.5 = $0.625

Write Request=0.1M\*1.25\*4 = $5

Total charge = 0.1M\*1.25\*4.2 = $20.625

**Cognito Charge**

Free total - $0.000

Monthly Active user $000 is free if user is logged in within month

**S3 Bucket Charge**

Store 50TB=0.023 per GB

Storage=50GB\*0.023=$1.15

Get request = 1M = 10000000/1000\*0.0004=$0.40

Total = $ 1.55

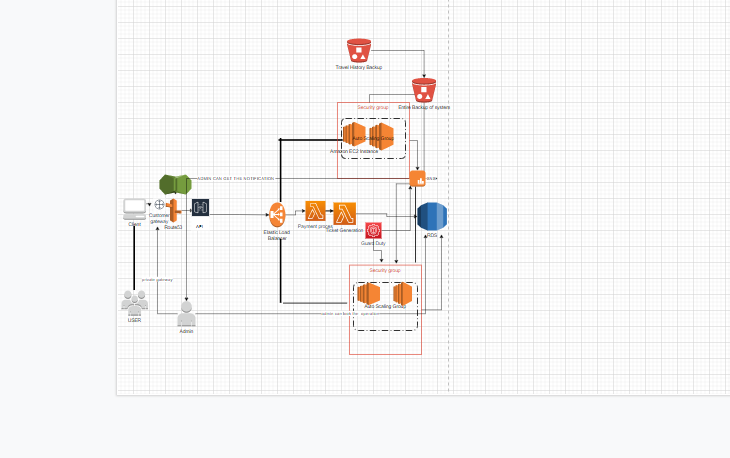
Total cost = $27.84per monthly cost

Total cost = 2027.68/-

Monthly Payment Process

|  |  |  |
| --- | --- | --- |
| Component | information | cost |
| API 2 | For Ticket Generation and receive  1 API-$4:00 | 2\*$4.0\*72.44=579.52/- |
| S3 Bucket | If it exceeds more than 50gb | $1.55\*72.44=112.282/- |
| AWS Congnito | It is free for monthly active access | free |
| Lambda Function | Per million request per month based on number of lambda function we use suppose we use 2 functions monthly cost and also lambda request charge is $0.20 free tier for 1 million request | $1.67 is the cost  $1.67\*72.81=121.5927/- |
| EC2 INSTANCES | About $0.0116 per hour for month and there is a free tier | $8.70\*72.81=633.477/- |
| Relational Database  If we use oracle and for 10gb storage | With on demand pricing model charge will be $0.226per hour | $1.602\*72.81=116.6412/- |

**Architecture**

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