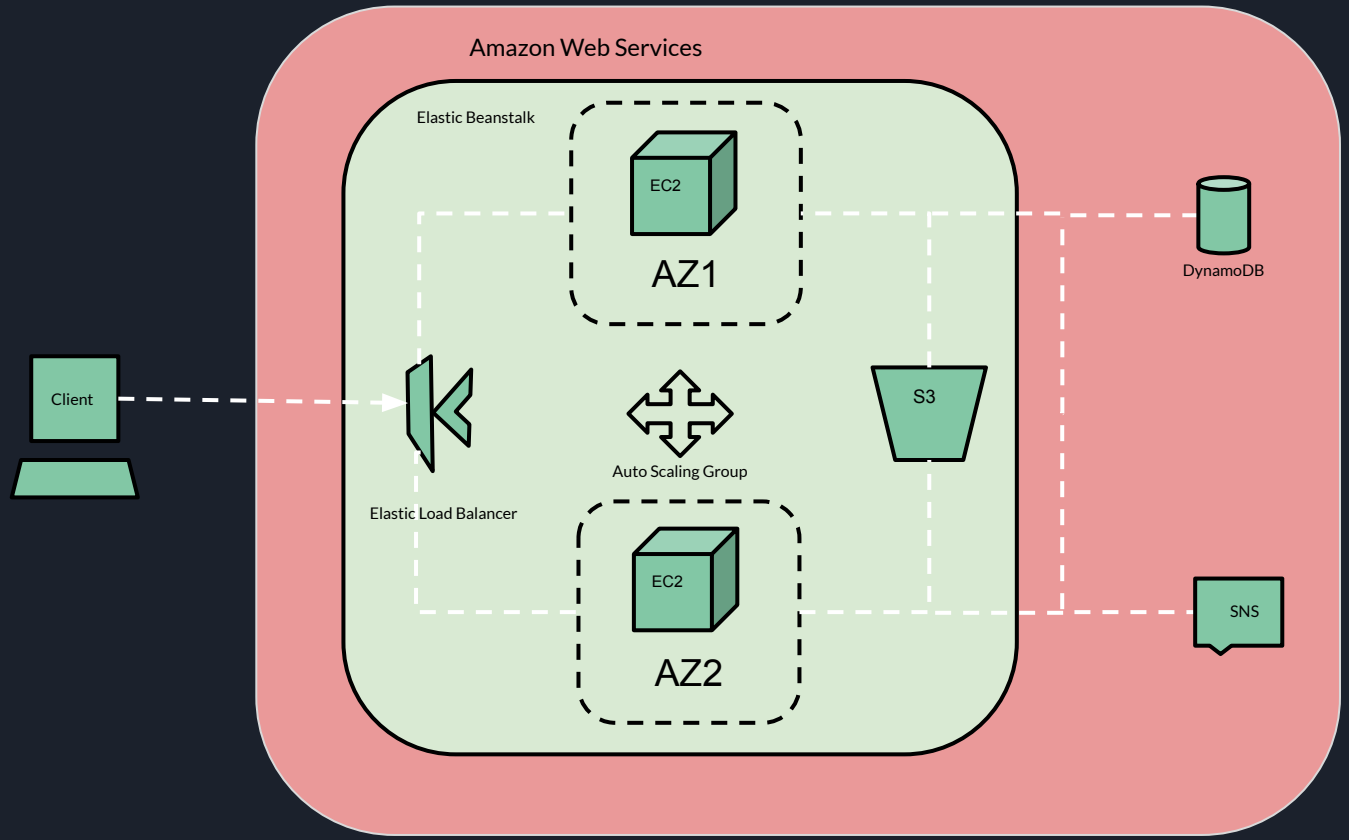
Deploy a Node.js App using Elastic Beanstalk

Amazon Web Services (AWS)

Architecture



1# Download Code

2# Launch Elastic Beanstalk

3#Add permission to EB instance

4# Deploy Application

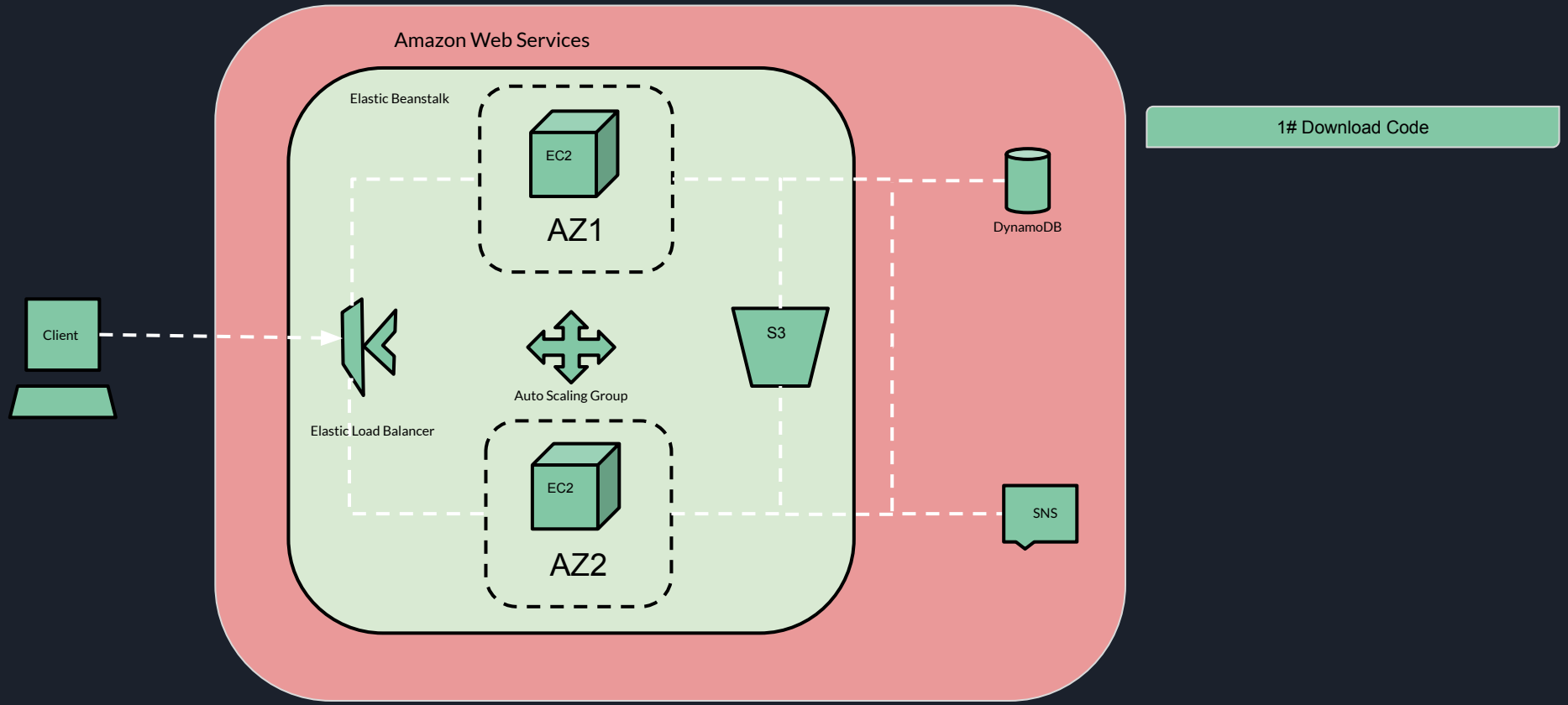
5# Create DynamoDB Table

6# Update Application Config file

7# Config High Availability

8# Clean Up

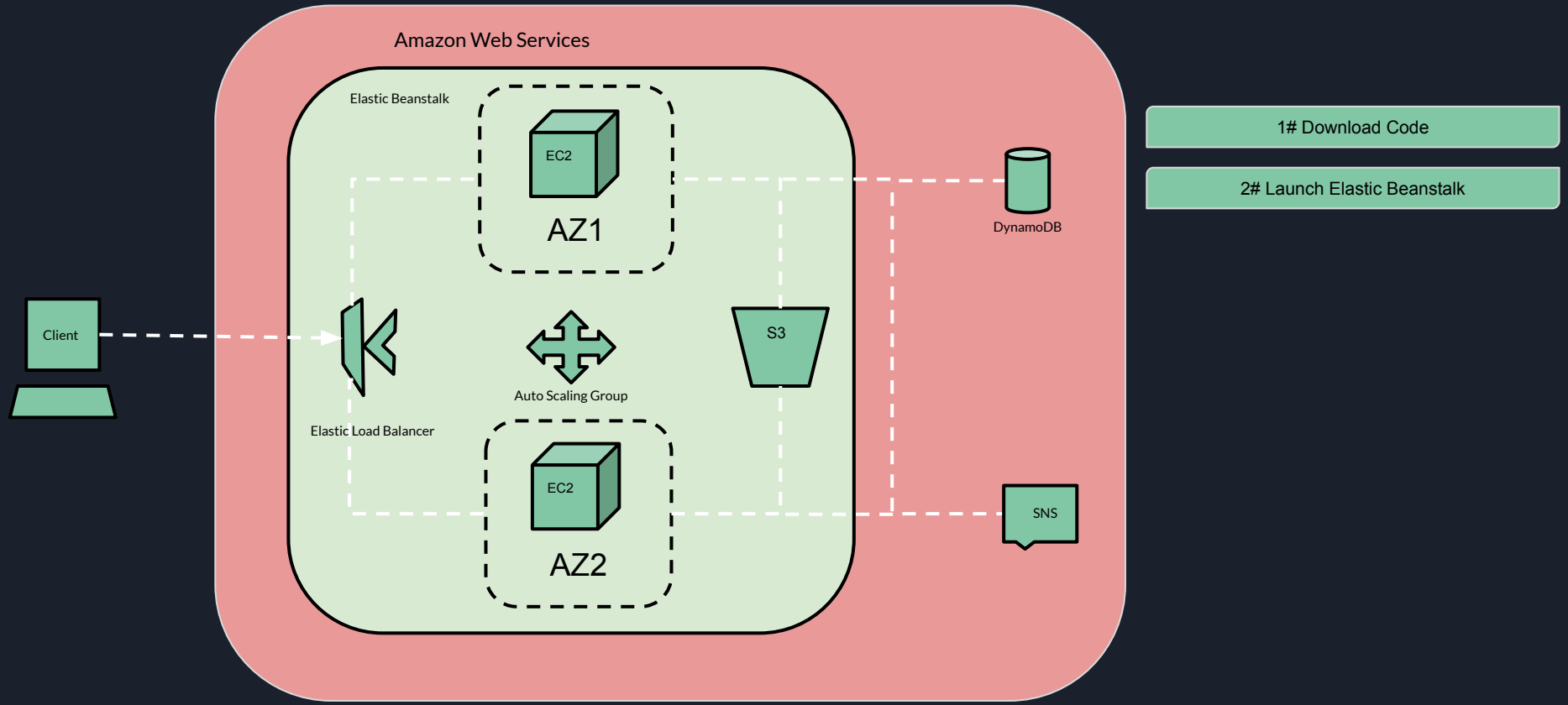
Architecture



1. Prerequisite

-> Before you start, download the sample application source bundle from GitHub: eb-node-express-sample-v1.1.zip.

Architecture



2. Launch an Elastic Beanstalk environment

-> Launch Elastic Beanstalk with preconfigured link

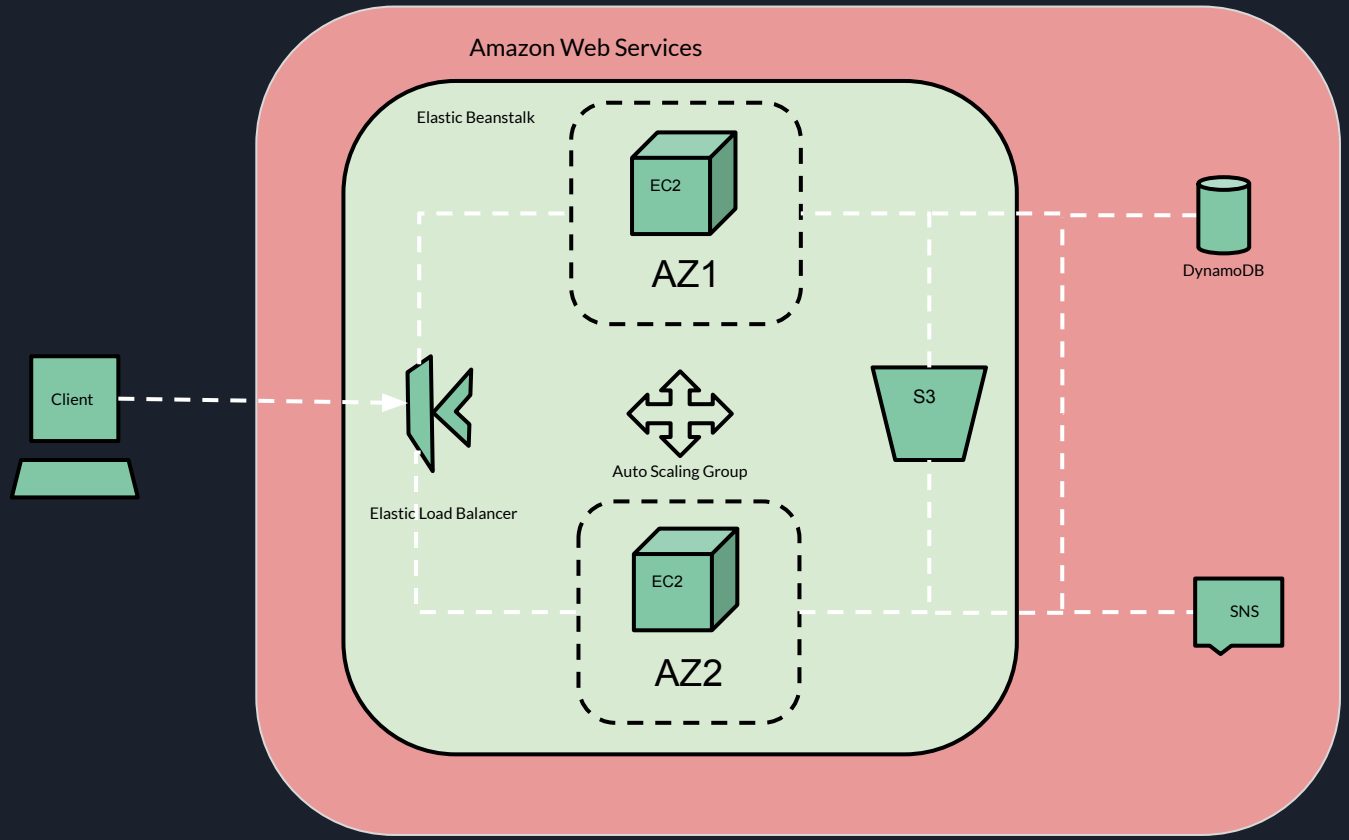
-> console.aws.amazon.com/elasticbeanstalk/home#/newApplication?applicationName=tutorials&environmentType=LoadBalanced

-> Platform -> Node.JS

-> Application Code -> Sample Application

-> Review and launch

Architecture



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2# Launch Elastic Beanstalk

3#Add permission to EB instance

3. Add permissions to your environment's instances

-> AWS Management Console -> Services -> IAM

-> Choose -> aws-elasticbeanstalk-ec2-role

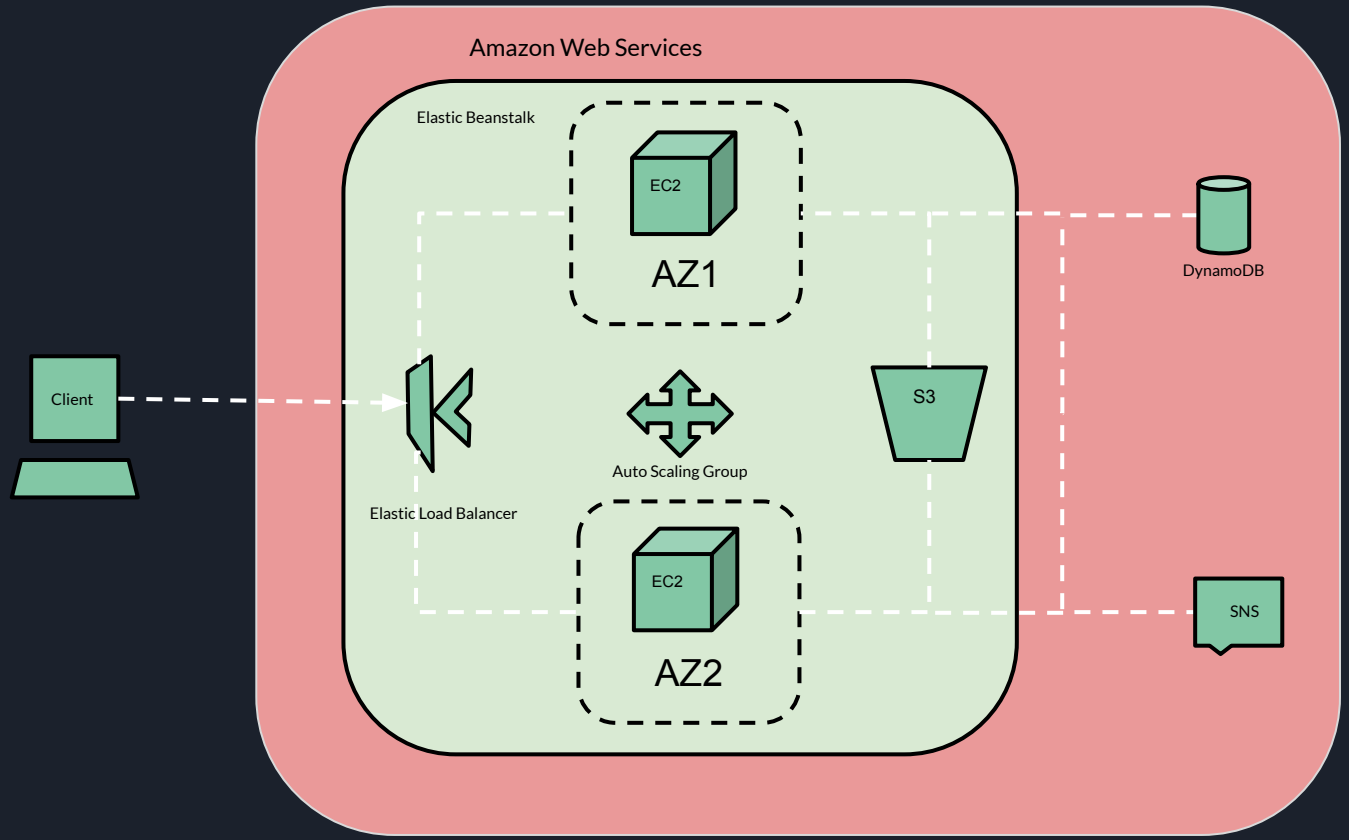
-> Permissions -> Attach Policies

-> Select -> AmazonDynamoDBFullAccess

-> Select -> AmazonSNSFullAccess

-> Choose -> Attach Policies

Architecture



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4# Deploy Application

4. Deploy the sample application

-> Elastic Beanstalk Management Page -> Upload and Deploy

-> Upload the zipped file of the downloaded code

-> Deploy

#View the table

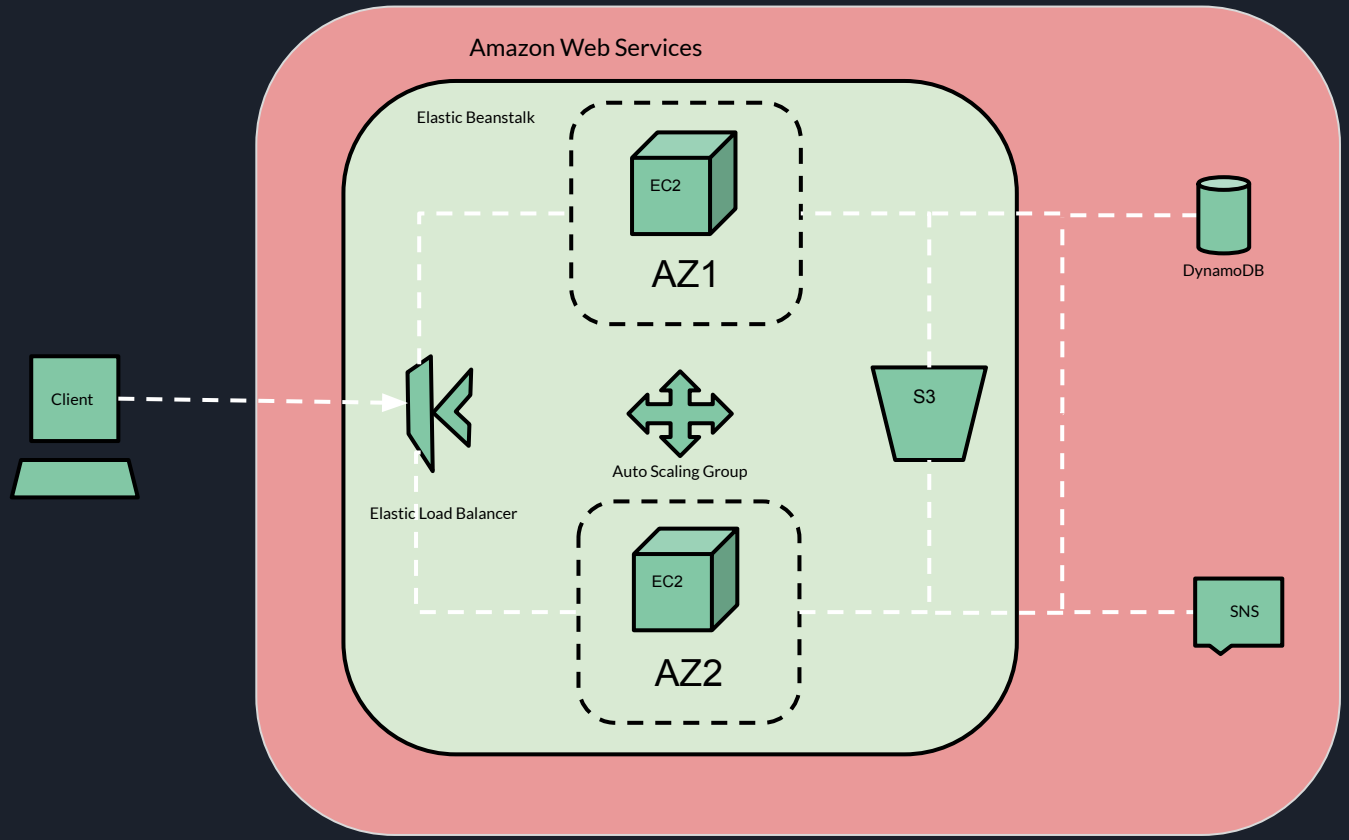
-> DynamoDB -> Tables

-> StartSignUp table -> items -> Start Search

#View the topic

-> Amazon SNS -> NewSignupTopic -> topic -> View

Architecture



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5# Create DynamoDB Table

5. Create a DynamoDB table

-> DynamoDB -> Create table

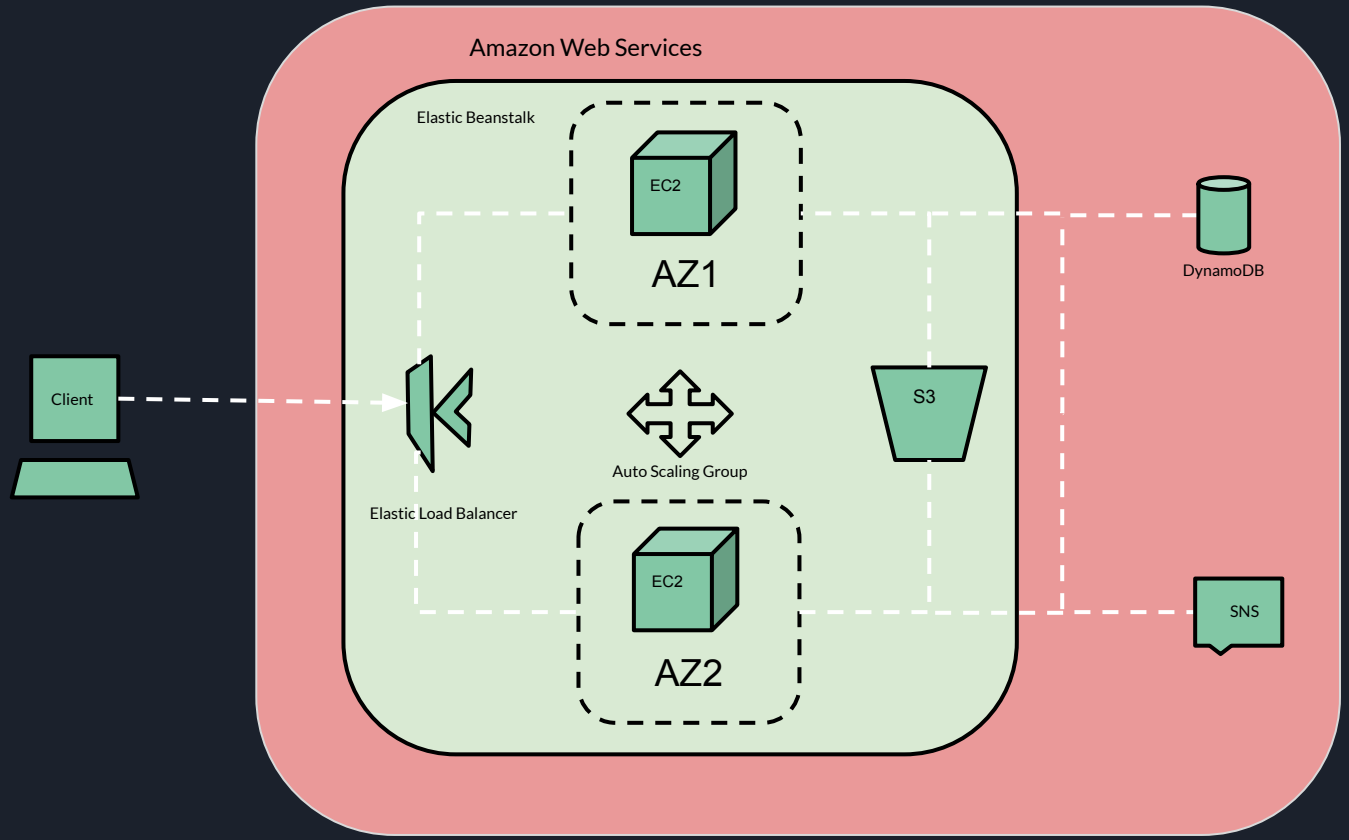
-> Table Name : nodejs-tutorial

-> Primary-key : email

-> Primary key type : String

-> Create

Architecture



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6# Update Application Config file

6. Update the application's configuration files

-> .ebextensions/options.config

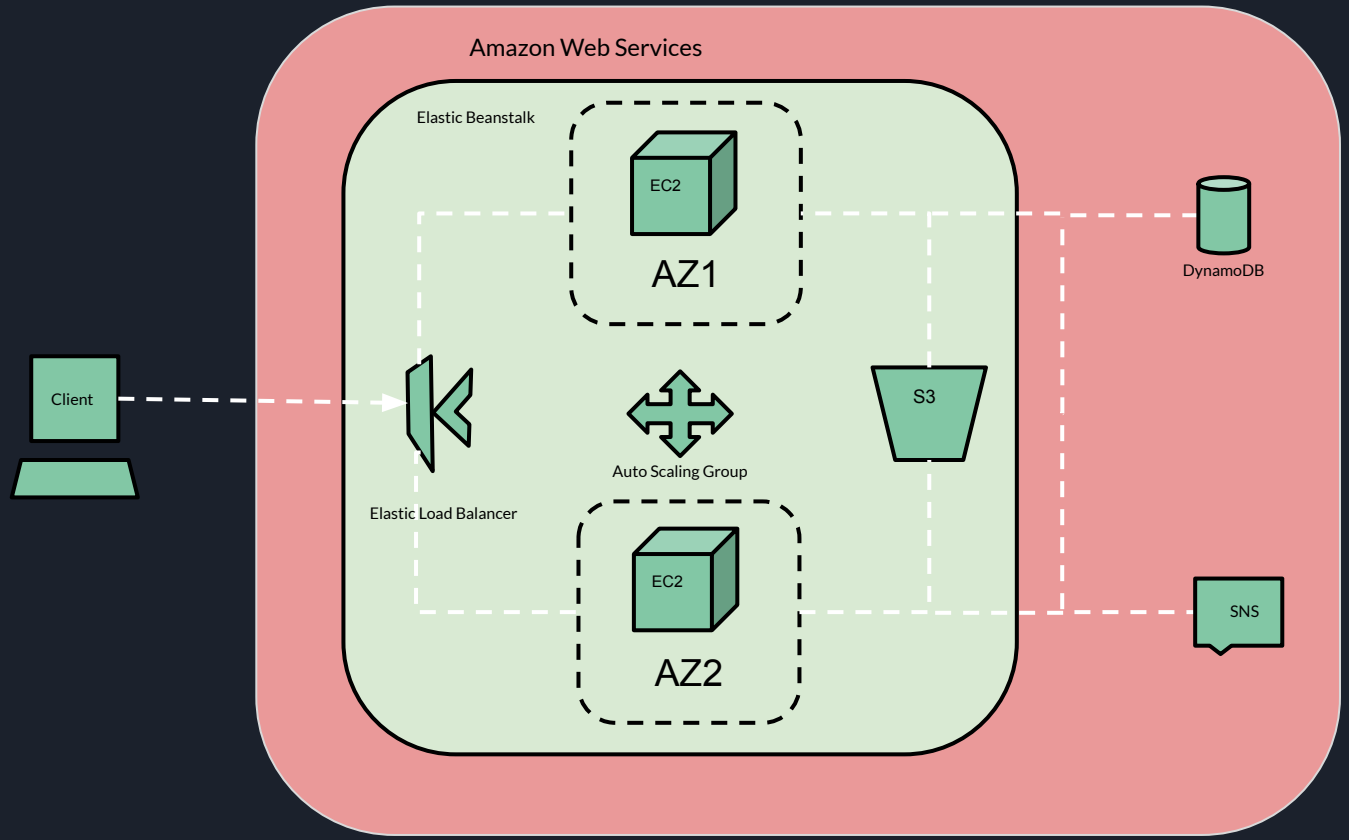
-> NewSignupEmail: shahpar.islam@yahoo.com

-> STARTUP_SIGNUP_TABLE: nodejs-tutorial

-> Remove .ebextensions/create-dynamodb-table.config.

-> zip nodejs-tutorial.zip -r * .[^.]*

Architecture



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7# Config High Availability

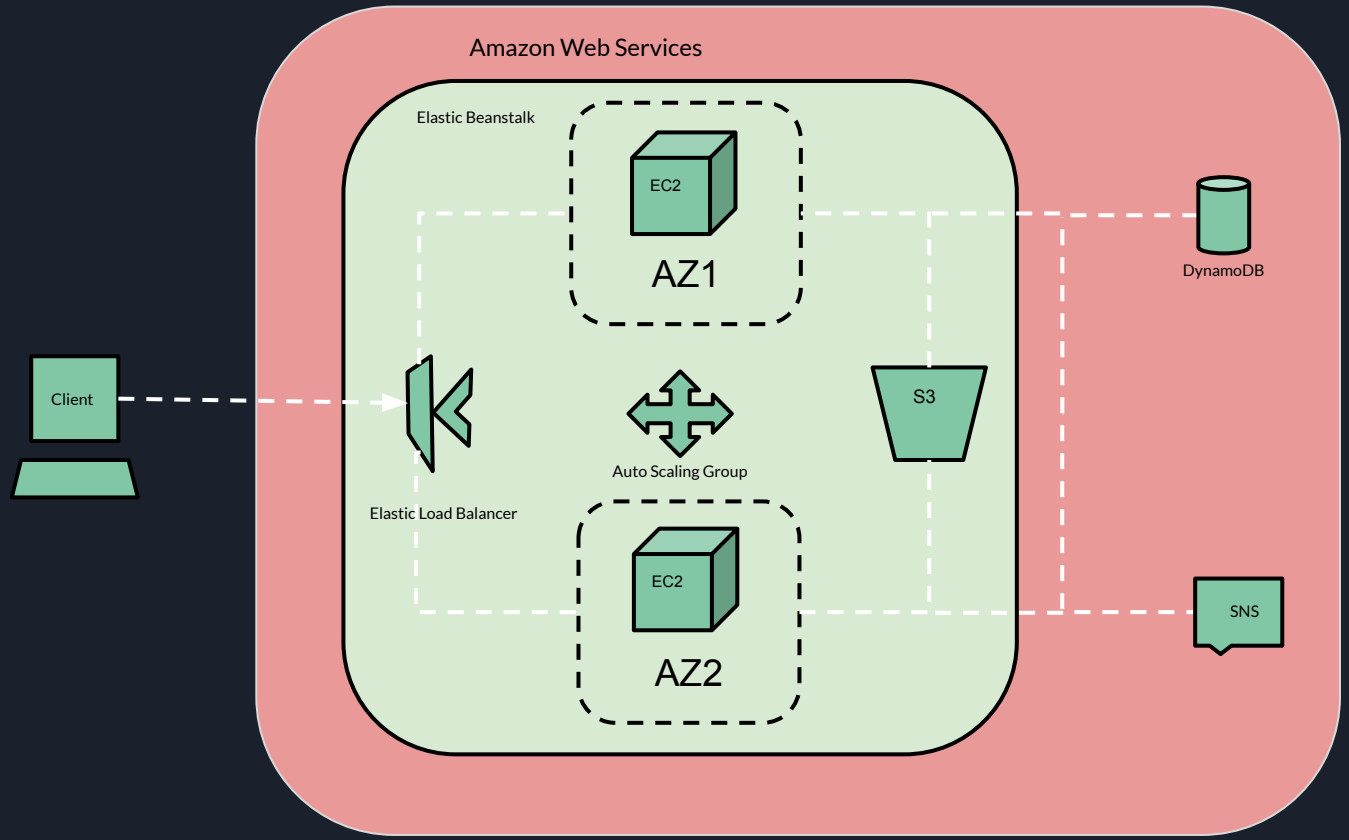
7. Configure your environment for high availability

-> EB Management Page -> Configuration

-> Capacity -> Edit -> Auto Scaling Group -> Min instance -> 2

-> Apply

Architecture



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8. Cleanup

-> EB Management page -> Action -> Terminate environment

-> DynamoDB -> Actions -> Delete Table

Thank You!