

CSC PROJECT

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Veera Brahmam Ainala

Sec-14

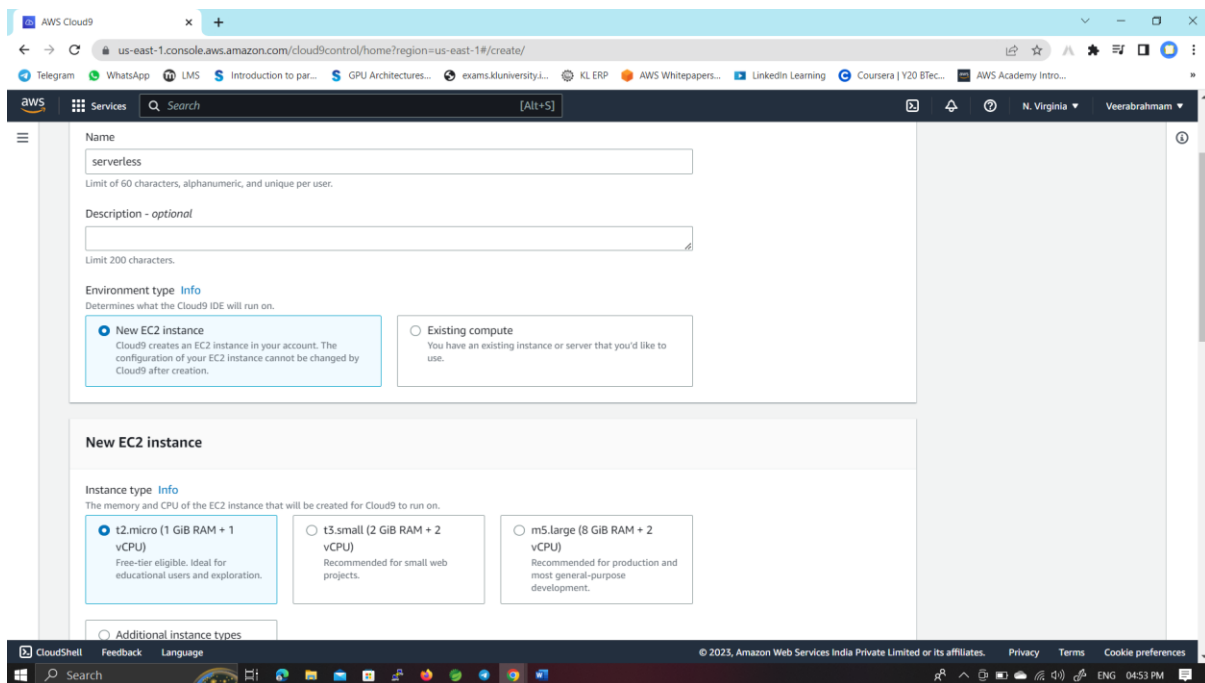
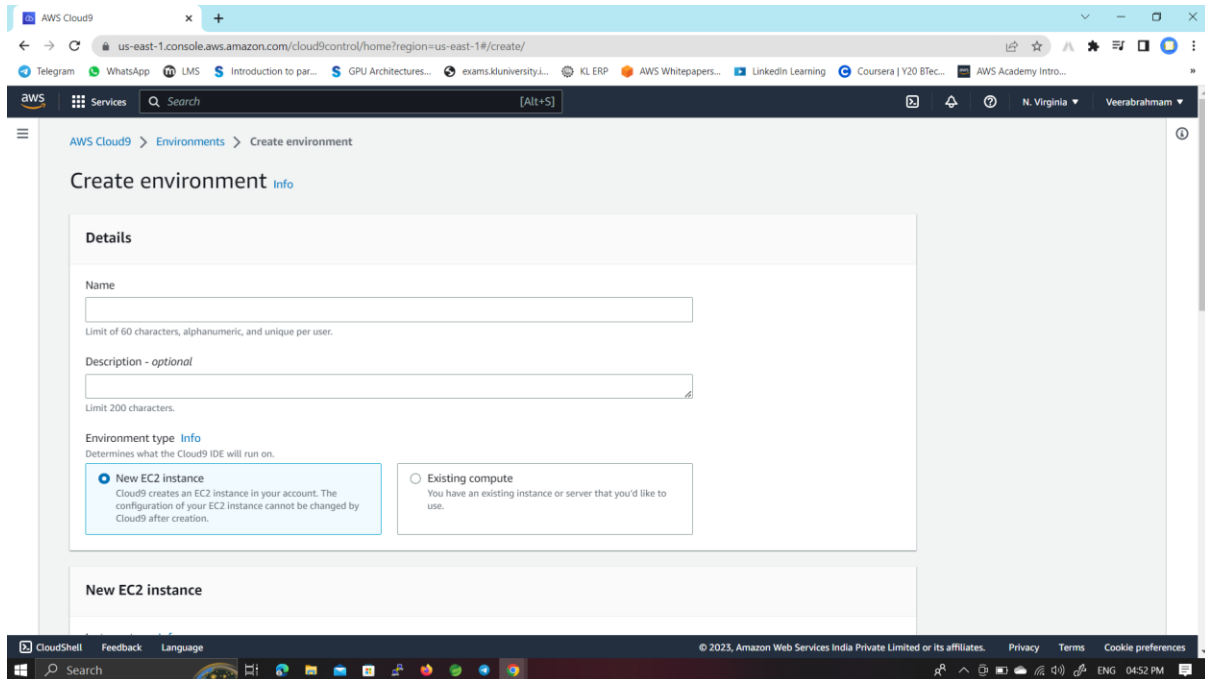
Faculty: Dr. S Kavitha

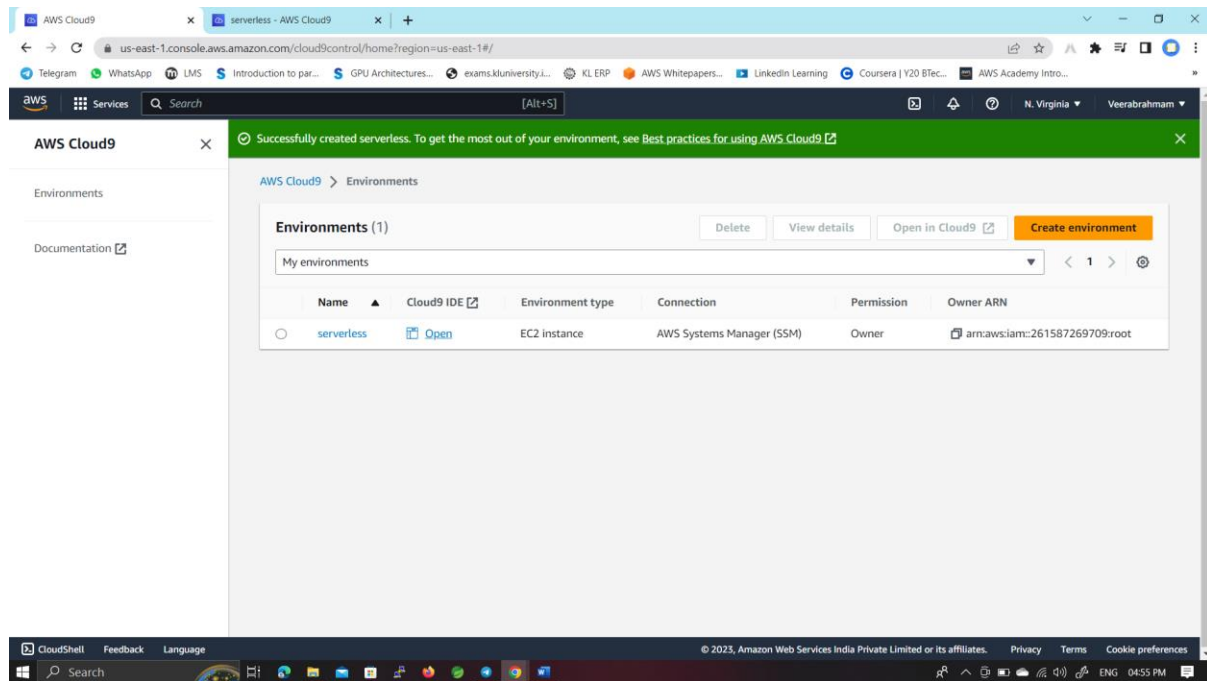
Project deployment link:

<https://master.d36jxg476tsyu.amplifyapp.com/>

Serverless web application and Serverless AWS Cognito Custom User Pool

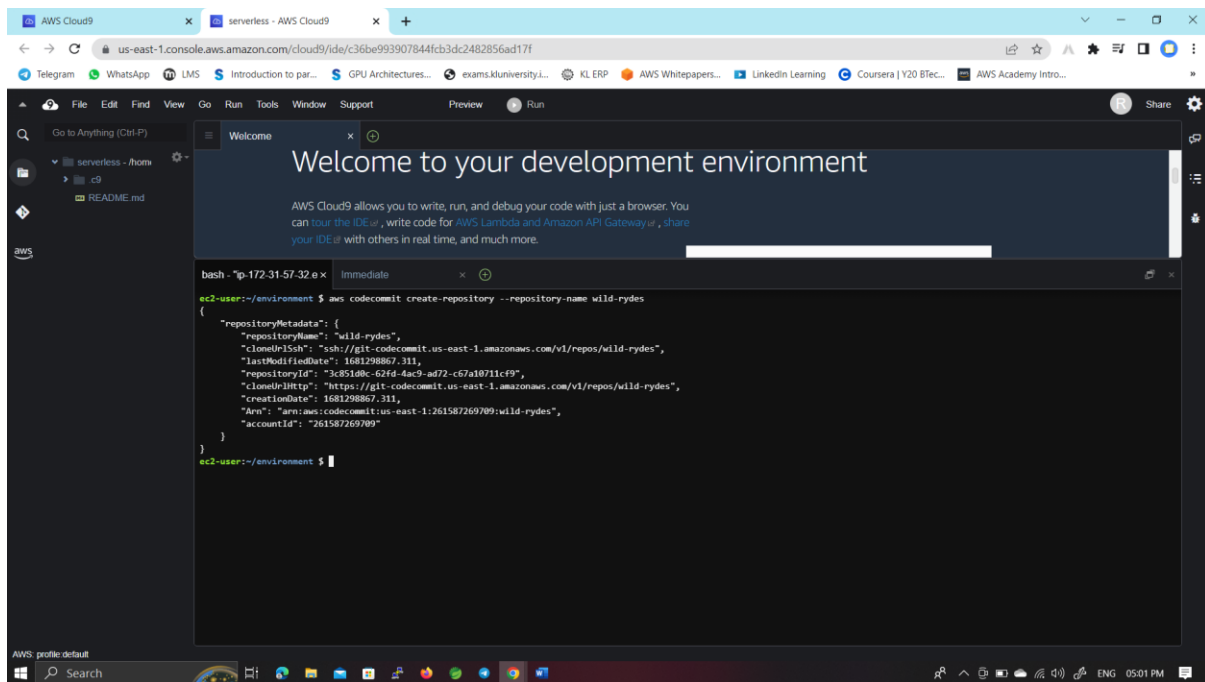
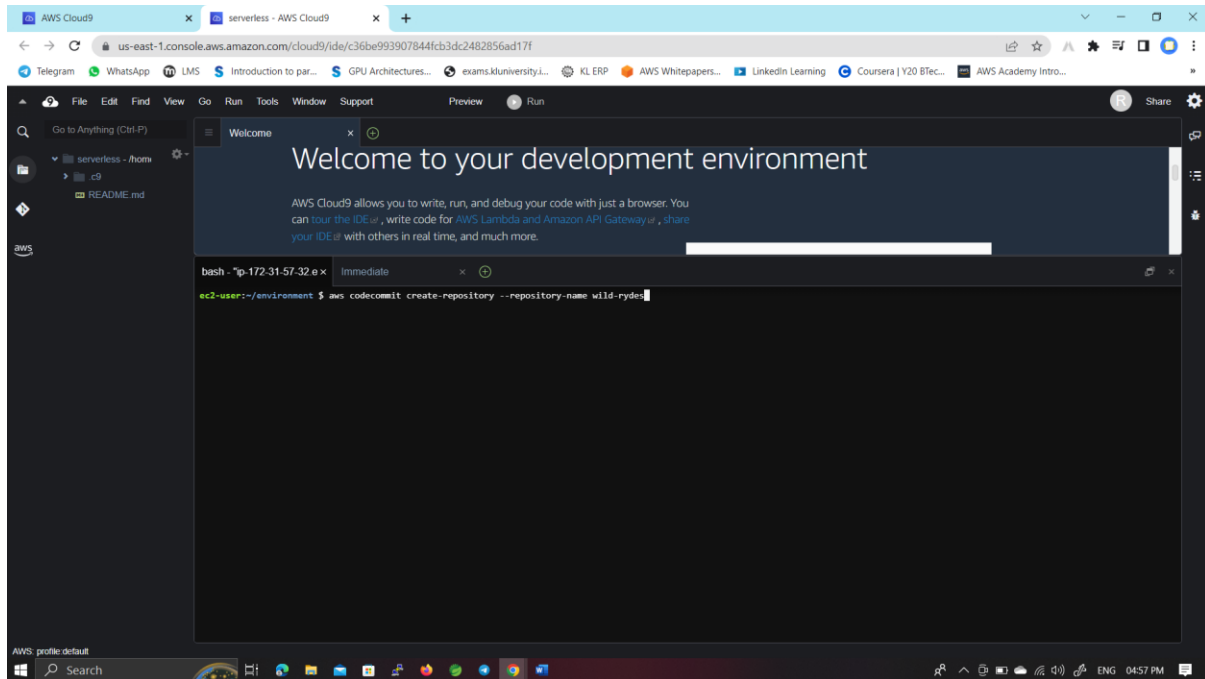
This workshop shows you how to build a dynamic, serverless web application. You'll learn how to host static web resources with Amazon S3, how to use Amazon Cognito to manage users and authentication, and how to build a RESTful API for backend processing using Amazon API Gateway, AWS Lambda and Amazon DynamoDB. 1. Create the git repository The AWS Cloud9 development environment comes with AWS managed temporary credentials that are associated with your IAM user. You use these credentials with the AWS git-remote-codecommit tool (A Git Remote Helper that makes it easier to interact with AWS CodeCommit). This tool is installed in Cloud9 by default. You can install it on your own machine

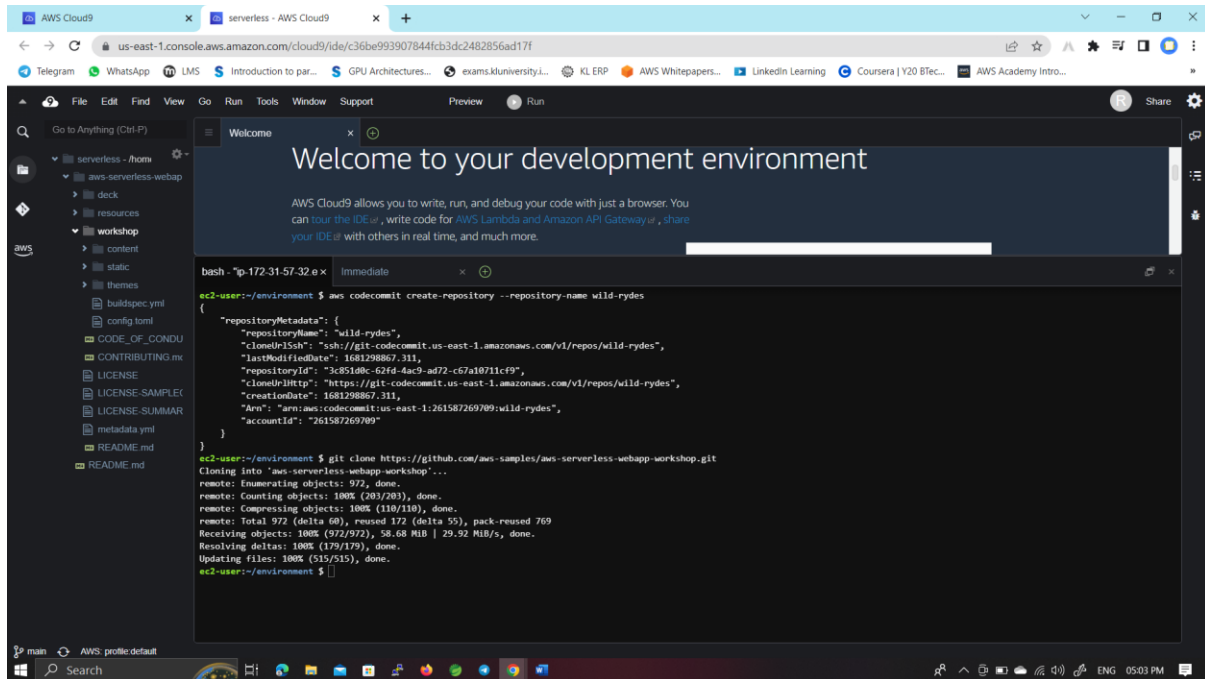




2. Deploy the site with the AWS Amplify Console

Next you'll use the AWS Amplify Console to deploy the website you've just committed to git. The Amplify Console takes care of the work of setting up a place to store your static web application code and provides a number of helpful capabilities to simplify both the lifecycle of that application as well as .





Architecture Overview:



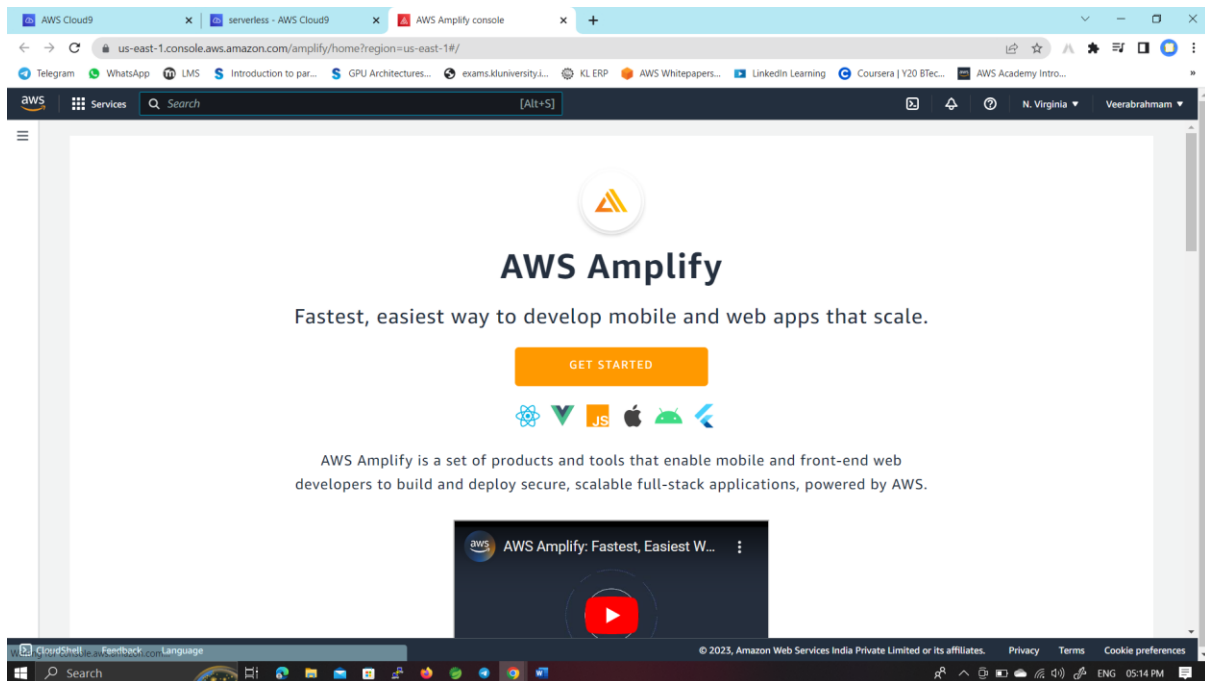
4. Create an Amazon Cognito User Pool using AWS Amplify CLI

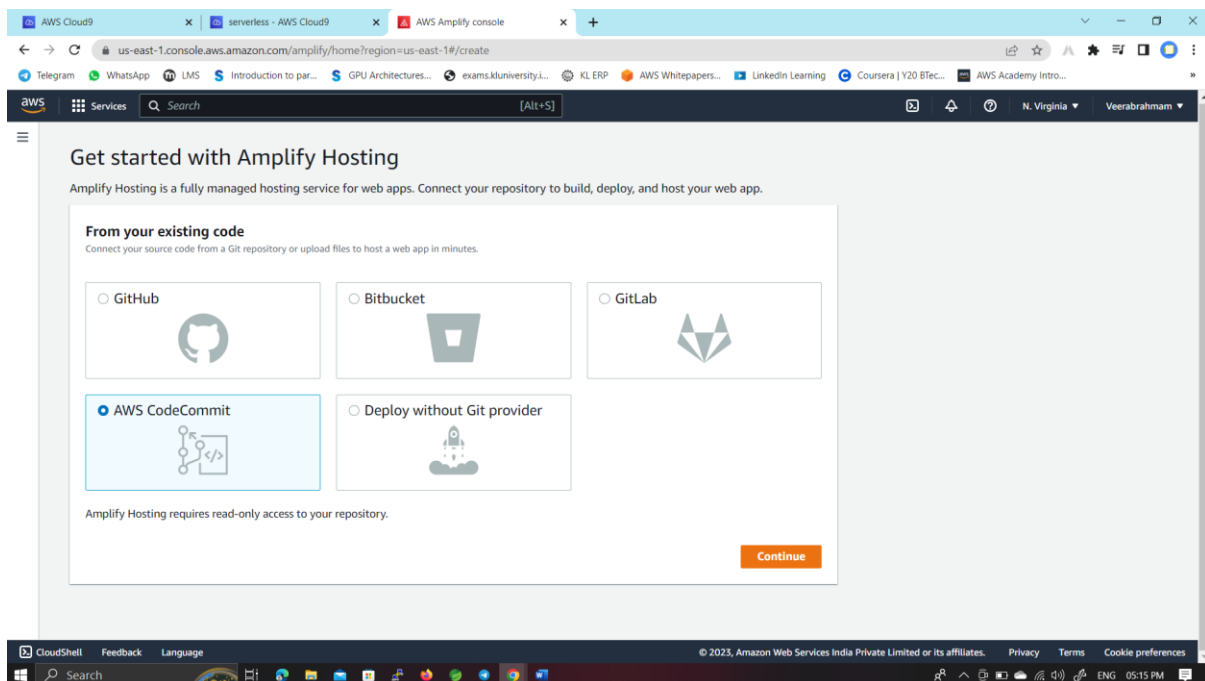
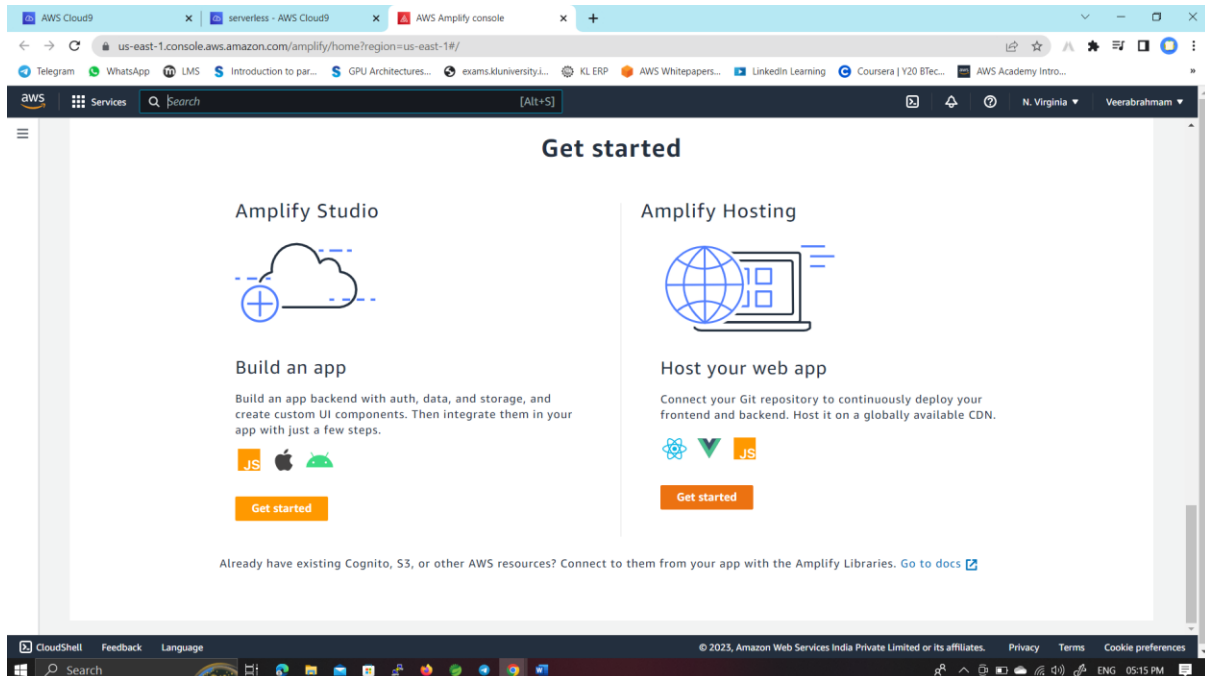
The AWS Amplify Authentication module provides Authentication APIs and building blocks for developers who want to create user authentication experiences.

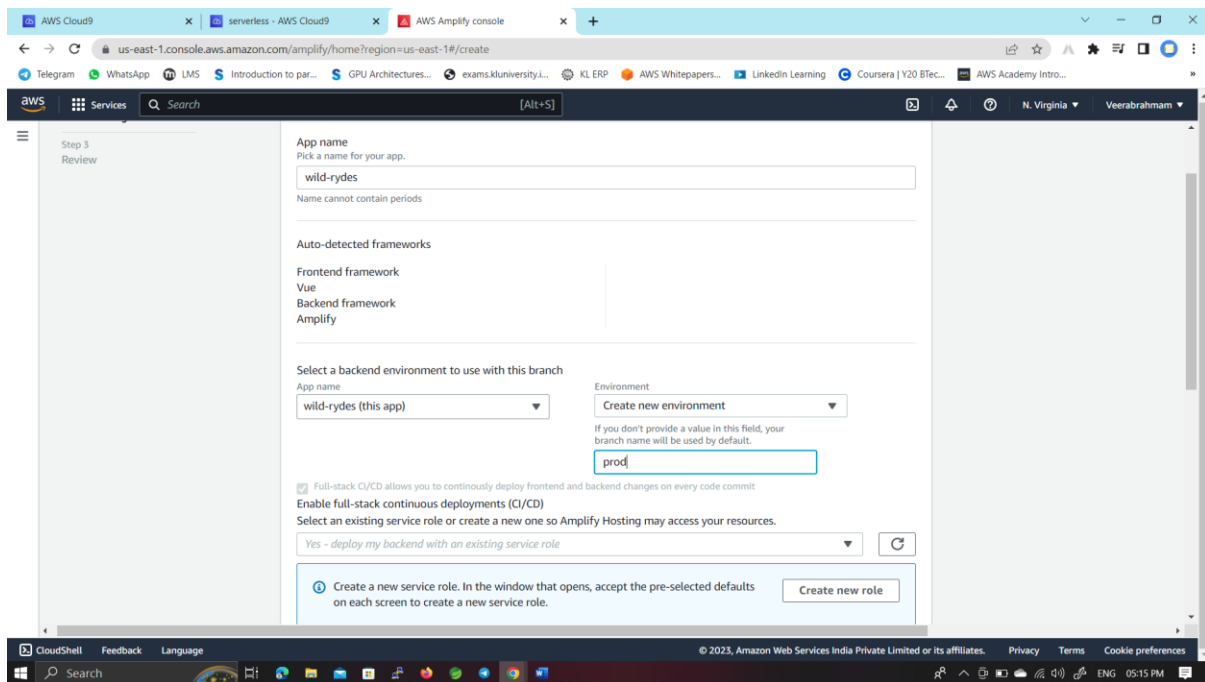
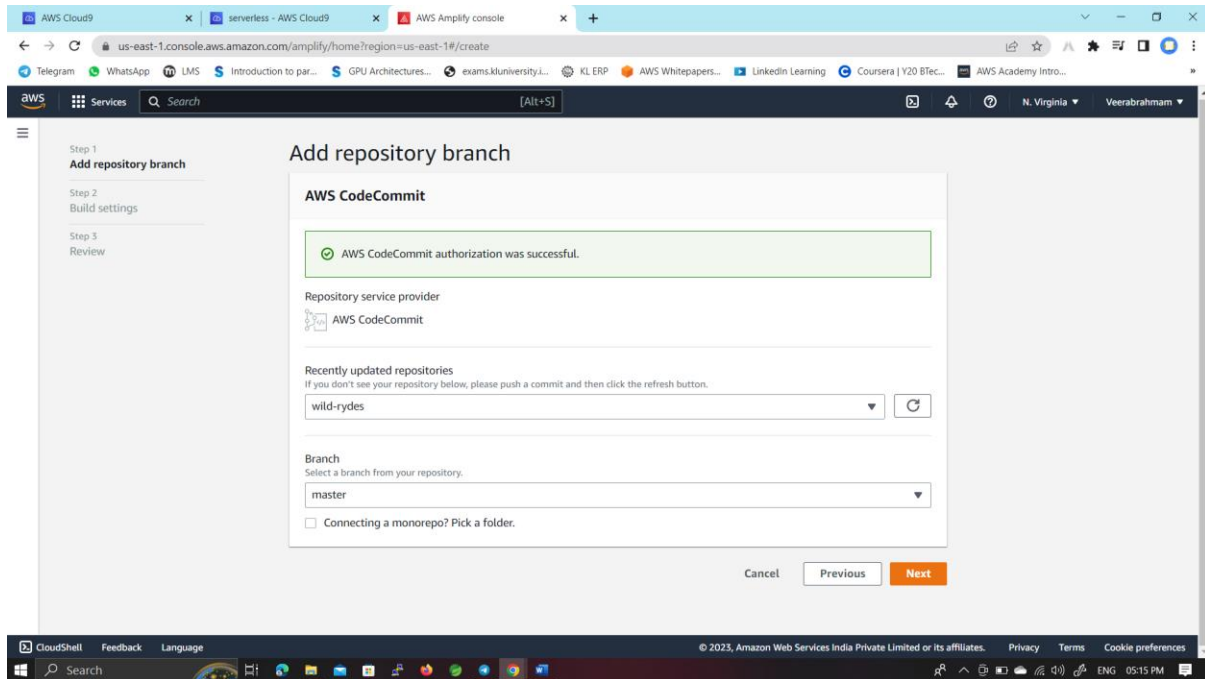
Amazon Cognito User Pools is a full-featured user directory service to handle user registration, authentication, and account recovery. Amazon Cognito Federated Identities on the other hand, is a way to authorize your users to use AWS services.

Amplify interfaces with User Pools to store your user information. This includes federation with other OpenID providers like Facebook & Google. Amplify also uses Federated Identities to manage user access to AWS Resources, like allowing a user to upload a file to an S3 bucket.

The Amplify CLI automates the access control policies for these AWS resources and provides fine grained access controls via GraphQL for protecting data in your APIs. In this section you use the Amplify CLI to create a new Cognito User Pool with the default settings. Then you use the Amazon Cognito Console to manage the new User Pool.










1 2 3 4


Create role

Select type of trusted entity

**AWS service**
EC2, Lambda and others

**Another AWS account**
Belonging to you or 3rd party

**Web identity**
Cognito or any OpenID provider

**SAML 2.0 federation**
Your corporate directory

Allows AWS services to perform actions on your behalf. [Learn more](#)

Choose a use case

Common use cases

EC2
Allows EC2 instances to call AWS services on your behalf.

Lambda
Allows Lambda functions to call AWS services on your behalf.

Or select a service to view its use cases

API Gateway	CloudWatch Evidently	EMR	IoT Things Graph	Reachability Analyzer
AWS Backup	CloudWatch Internet Monitor	EMR Containers	IoT TwinMaker	Redshift
AWS Chatbot	CloudWatch RUM	ElastiCache	KMS	Recognition
AWS Marketplace	CodeBuild	Elastic Beanstalk	Kinesis	Resource Groups

* Required

Cancel **Next: Permissions**


Attached permissions policies

The type of role that you selected requires the following policy.

Filter policies

Q amplify

Showing 1 result

Policy name	Used as	Description
 AdministratorAccess-Amplify	None	Grants account administrative permissions whil...

Set permissions boundary

* Required

Cancel Previous **Next: Tags**

us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/rolesNew?step=review&selectedService=Amplify&selectedUseCase=AmplifyBackendDeploymentSLR&roleNam...

Services Search [Alt+S]

Create role

1 2 3 4

Review

Provide the required information below and review this role before you create it.

Role name*
Use alphanumeric and "+, @, _" characters. Maximum 64 characters.

Role description
Maximum 1000 characters. Use alphanumeric and "+, @, _" characters.

Trusted entities AWS service: amplify.amazonaws.com

Policies AdministratorAccess-Amplify [↗](#)

Permissions boundary Permissions boundary is not set

The new role will receive the following tag

Key	Value
Name	serverless-workshop

* Required

Cancel Previous **Create role**

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Search

us-east-1.console.aws.amazon.com/amplify/home?region=us-east-1#/create

Services Search [Alt+S]

Frontend framework
Vue
Backend framework
Amplify

Select a backend environment to use with this branch

App name

Environment

If you don't provide a value in this field, your branch name will be used by default.

☒ Full-stack CI/CD allows you to continuously deploy frontend and backend changes on every code commit.

Enable full-stack continuous deployments (CI/CD)

Select an existing service role or create a new one so Amplify Hosting may access your resources.

Click the refresh button and select the created role from the dropdown. **Refresh existing roles**

Build and test settings

We've auto-detected your app's build settings. Please ensure your build command and output folder (baseDirectory) are correctly detected.

```
1 version: 1
2 backend:
3   phases:
4     build:
5       commands:
6         - '# Execute Amplify CLI with the helper script'
```

AWS Cloud9

serverless - AWS Cloud9

AWS Amplify console

Welcome

us-east-1.console.aws.amazon.com/amplify/home?region=us-east-1#/dk93uot1p25y3

TelegramWhatsAppLMSIntroduction to par...GPU Architectures...exams.kk university...KL ERPAWS Whitepapers...LinkedIn LearningCoursera | Y20 8Tec...AWS Academy Intro...

AWS

Services

Search

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N. Virginia

Veerabrahmam

AWS Amplify

X

All apps

wild-rydes

▼ App settings

General

Amplify Studio settings

Domain management

Build settings

Previews

Notifications

Environment variables

Access control

Monitoring

Rewrites and redirects

Custom headers

Documentation

Support

The AWS Amplify Console is the control center for your full-stack app inside the AWS Management console. Set up continuous deployment and hosting, create a full-stack app in Amplify Studio, and manage full-stack environments.

Learn how to get the most out of Amplify Hosting

0 of 5 steps complete

Hosting environments

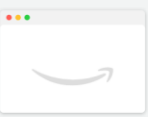
Backend environments

This tab lists all connected branches, select a branch to view build details.

Connect branch

master

Continuous deploys set up (Edit)



<https://master...amplifyapp.com>

Provision

Build

Deploy

Last deployment

4/12/2023, 5:19:09 PM

Last commit

This is an autogenerated message | Auto-build | AWS CodeCommit - master

Previews

Disabled

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serverless - AWS Cloud9

wildrydes9410f71_userpool_941

IAM Management Console

RequestUnicorn - Lambda

API Gateway Console

us-east-1.console.aws.amazon.com/iamv2/home#/roles/details/widerideslambda?section=permissions

YouTube @kmail Superset AICTE Fullstack React W3.CSS java Lower Bound STL D... chatgpt

AWS Services Search [Alt+S]

Global Veerabrahmam

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analyzers
- Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

IAM > Roles > widerideslambda

widerideslambda

Allows Lambda functions to call AWS services on your behalf.

Summary

Creation date

April 12, 2023, 12:47 (UTC+05:30)

ARN

arn:aws:iam::251953372551:role/widerideslambda

Last activity

6 hours ago

Maximum session duration

1 hour

Permissions Trust relationships Tags Access Advisor Revoke sessions

Permissions policies (2) Info

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter.

Policy name	Type	Description
AWSLambdaBasicExecutionRole	AWS managed	Provides write permissions to CloudWatch Logs.

CloudShell Feedback Language

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Search

7:53 PM

Wellcom to web

https://master.d36jxg476tsyu.amplifyapp.com/auth

80%

WildRYDES

Create a new account

Username *

brahmam

Password *

Email *

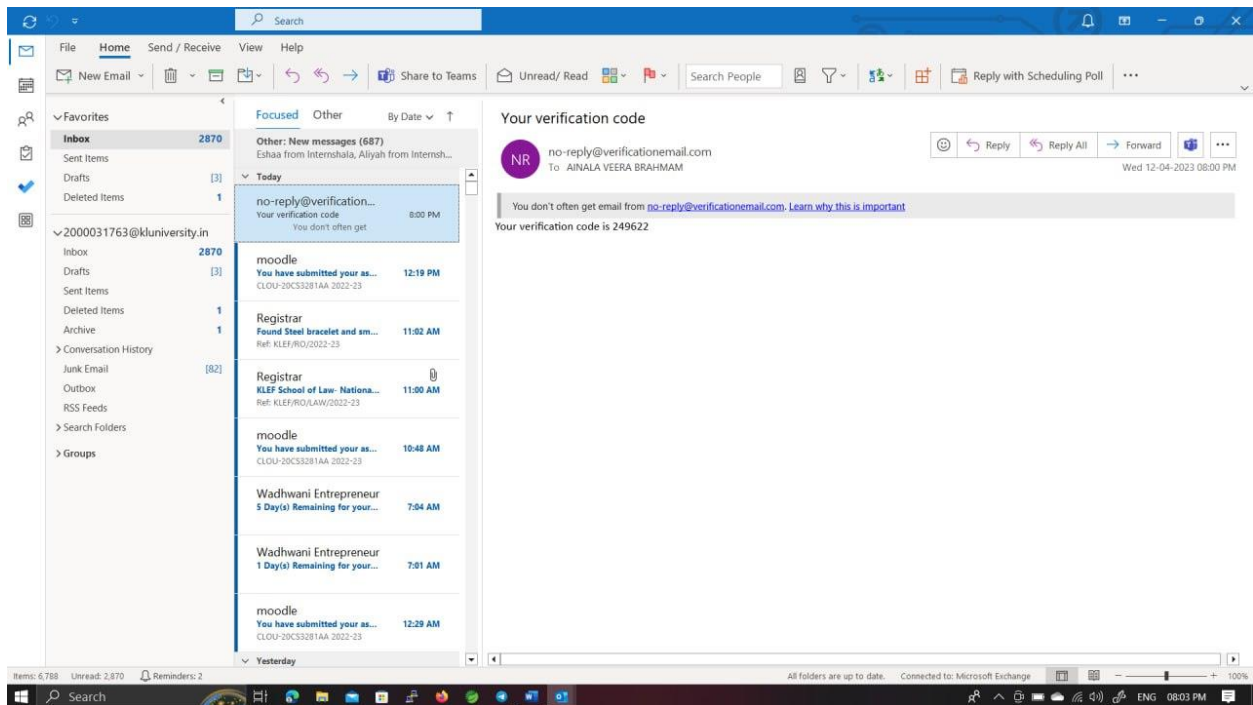
2000031763@klniversity.in

Phone number *

India (+91) 876543223

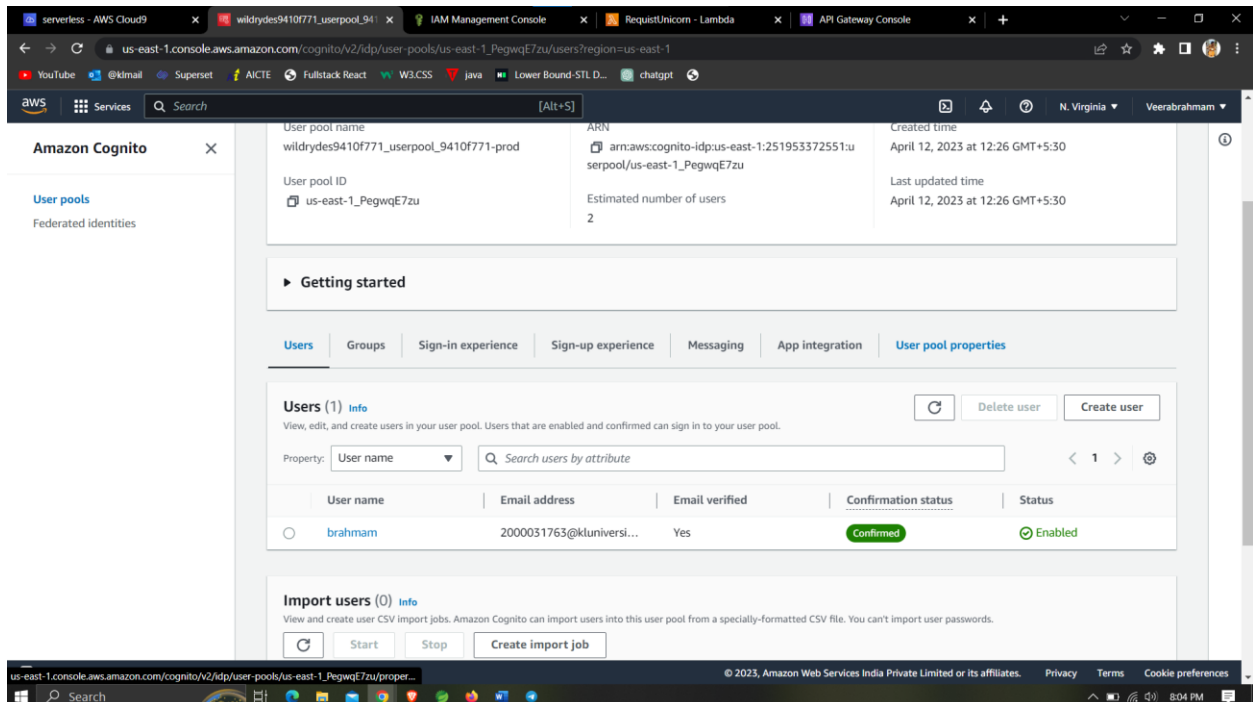
Have an account? Sign in

CREATE ACCOUNT

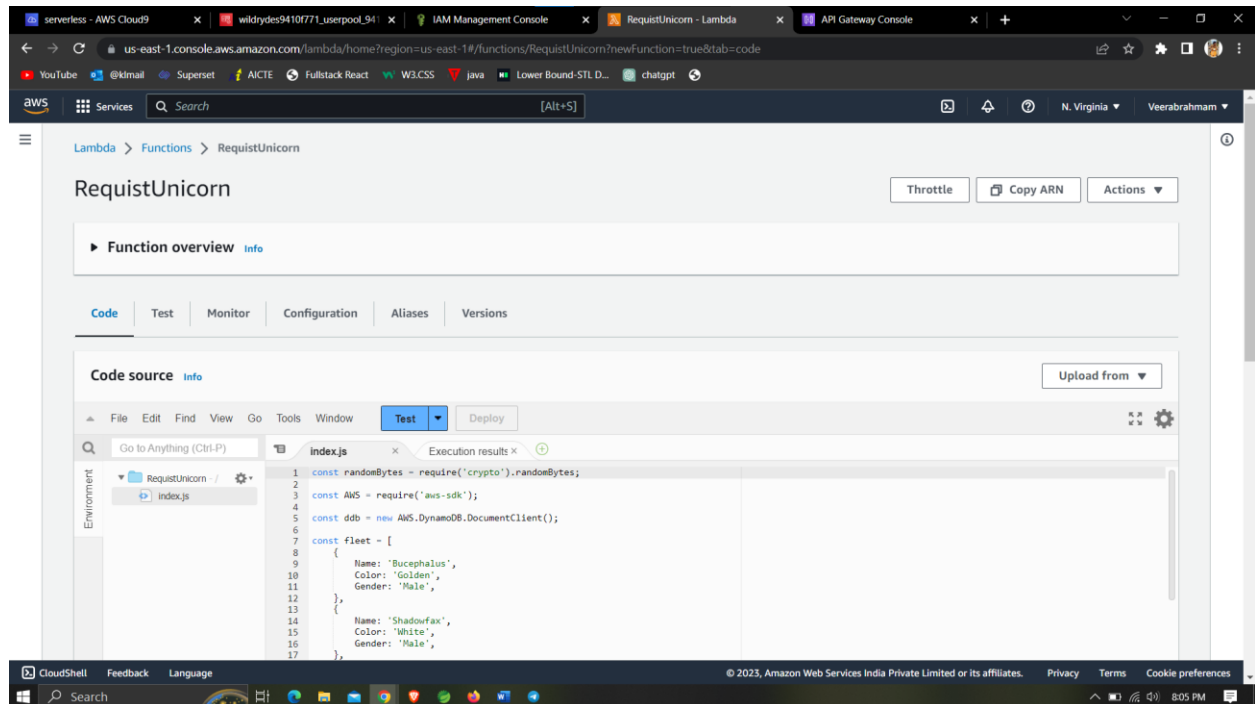


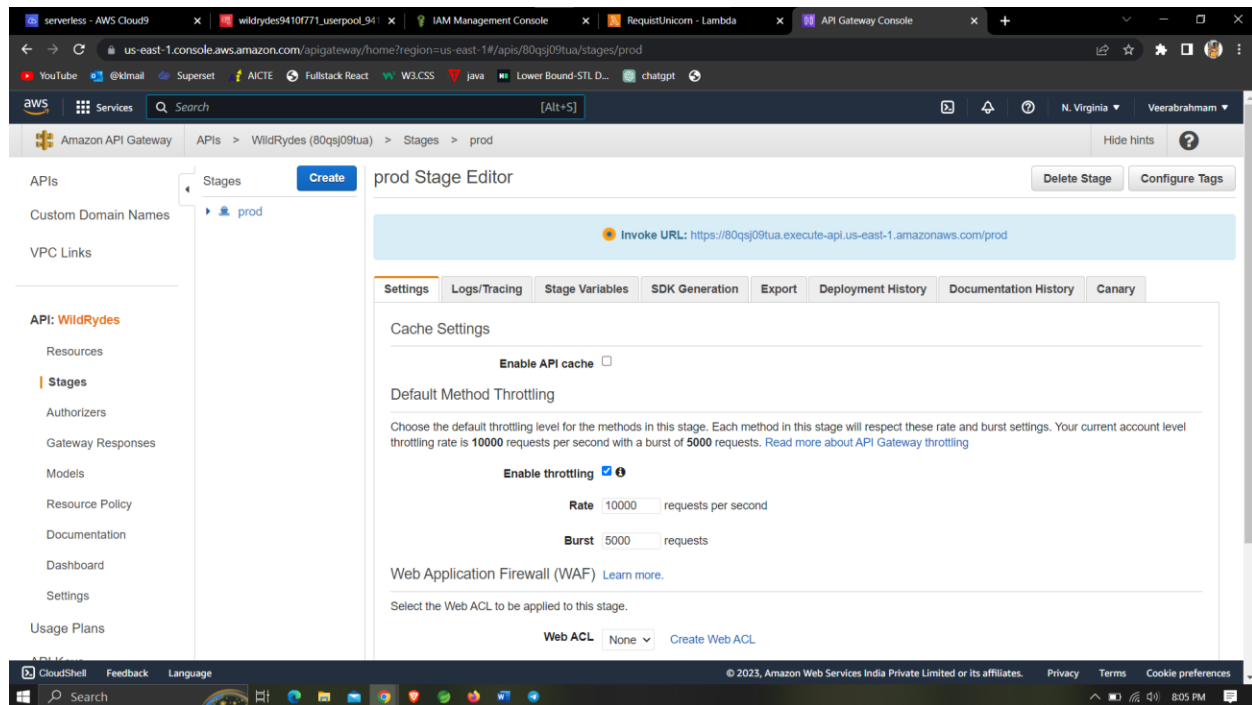
5. Create a new user for your user pool Note:

Instead of having you write the browser-side code for managing the registration, verification, and sign in flows, we provide a working implementation in the assets you deployed in the first module by using the AWS Amplify Authentication UI component.



Serveless Backend Overview:





Update the website Config:

Update the `/src/config.js` file in your website deployment to include the invoke URL of the stage you just created. You should copy the invoke URL directly from the top of the stage editor page on the Amazon API Gateway console and paste it into the `_config.api.invokeUrl` key of your site's `/src/config.js` file. Make sure when you update the config file it still contains the updates you made in the previous module for your Cognito user pool.

