# **CSC-PROJECT**

BUILDING A SERVERLESS VIDEO STREAMING SERVICE

-2100031397

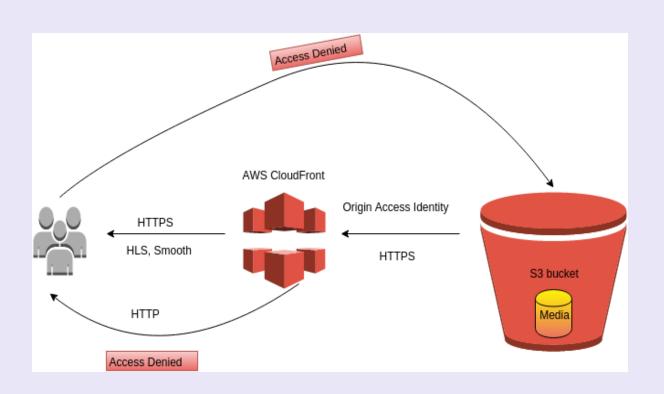
### **ABSTRACT**

In this comprehensive guide, we delve into the innovative approach of building a serverless video streaming service using Amazon S3 and CloudFront. By abandoning traditional server setups, we not only slash costs and reduce complexity but also elevate scalability to meet the demands of modern users. Throughout this walkthrough, we shine a light on crucial aspects such as user authentication, video transcoding, and seamless CloudFront integration. With an unwavering focus on simplicity and efficiency, this solution promises to deliver a flawless video streaming experience that caters perfectly to today's dynamic requirements.

#### INTRODUCTION

Welcome, esteemed audience, to a realm where digital landscapes are shaped by the fluidity of video streaming. In today's fast-paced digital epoch, the creation of a video streaming service often stands as a daunting venture, fraught with complexities and formidable costs. However, fear not, for we stand on the precipice of a transformative era, where Amazon Web Services (AWS) unfurls a tapestry of simplicity and affordability in the realm of video streaming platforms. Today, we embark on a journey to unravel the intricacies of AWS-driven serverless video streaming services, where the amalgamation of Amazon S3 for video storage and CloudFront for expeditious content delivery paves the path towards streamlined processes and economical solutions. Let us immerse ourselves in the boundless possibilities as we explore how AWS holds the key to revolutionizing the dissemination of video content in the digital sphere.

### **Architecture**

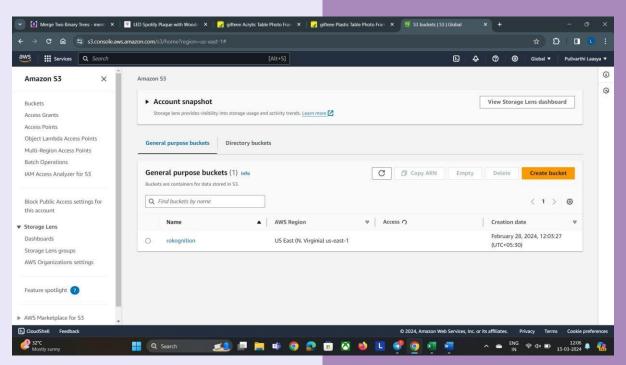


## **Services Used**

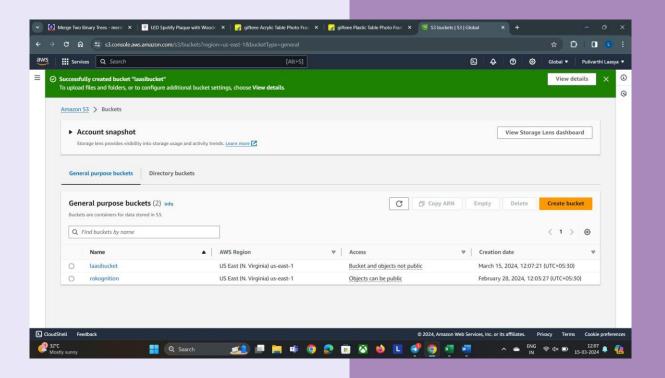
Amazon S3(Simple Storage Service)
Amazon CloudFront

## Steps:

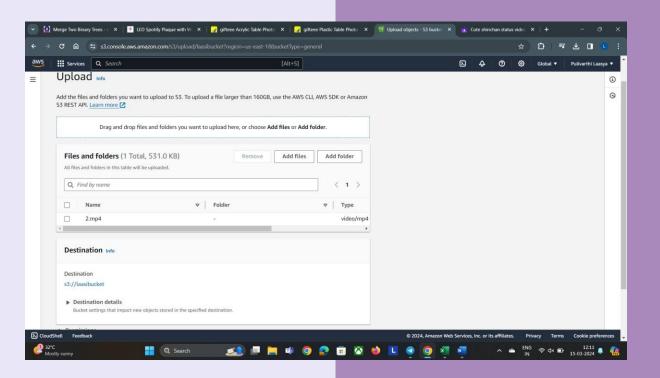
- step1: Signin to Amazon console
- Step2: Go to services and search for s3 bucket, and create a bucket

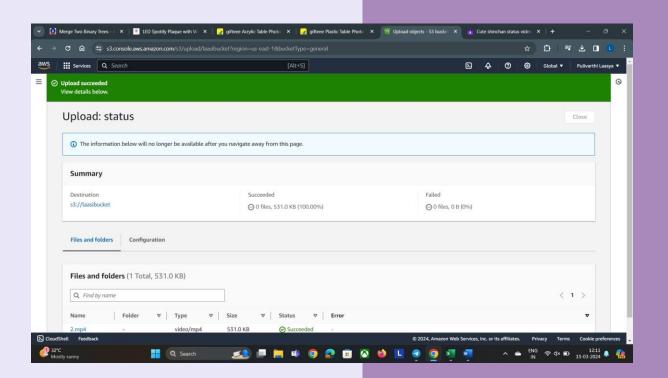


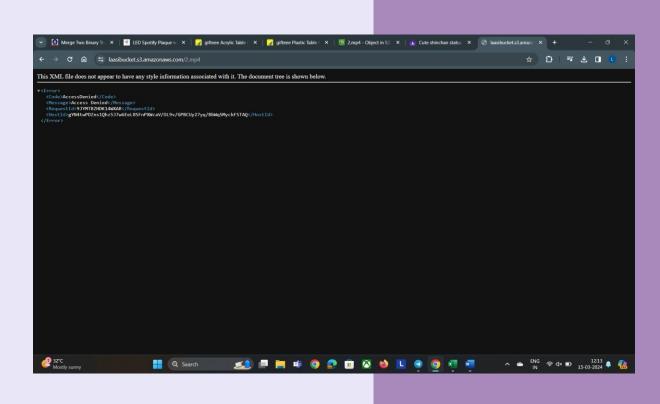
• Step3: After that go to cloud front service in that go to origin access and create a control setting.



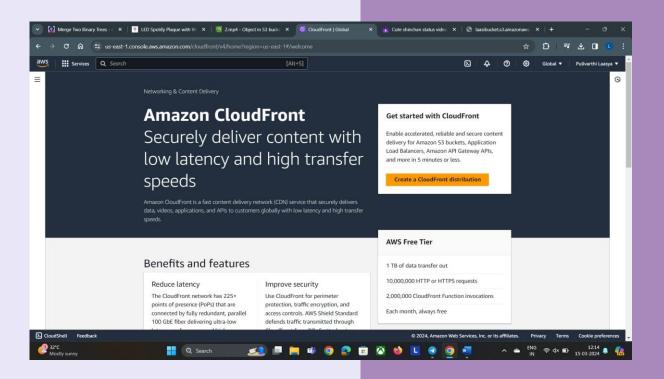
Upload Videos to S3:

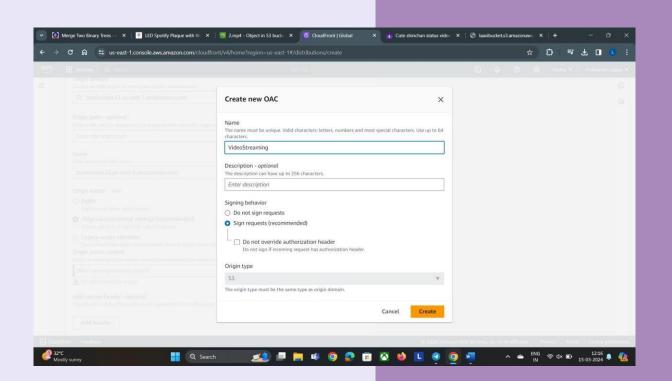


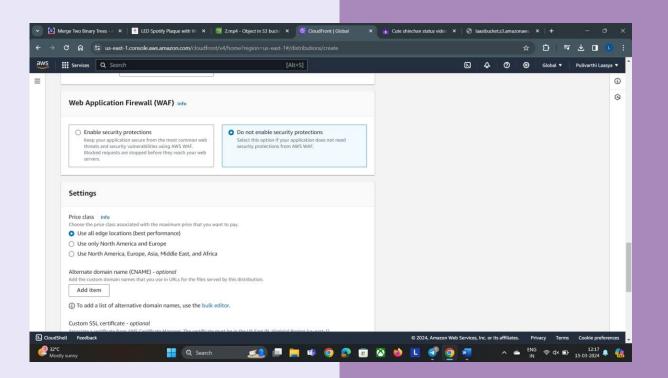


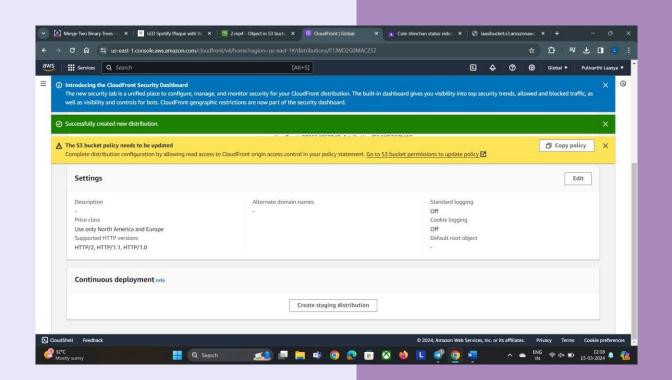


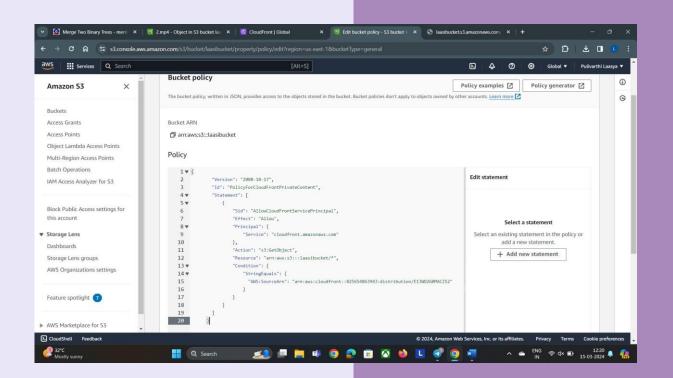
• Set Up CloudFront Distribution:

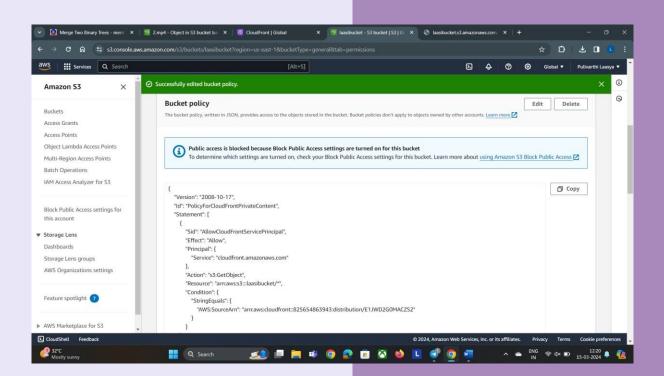


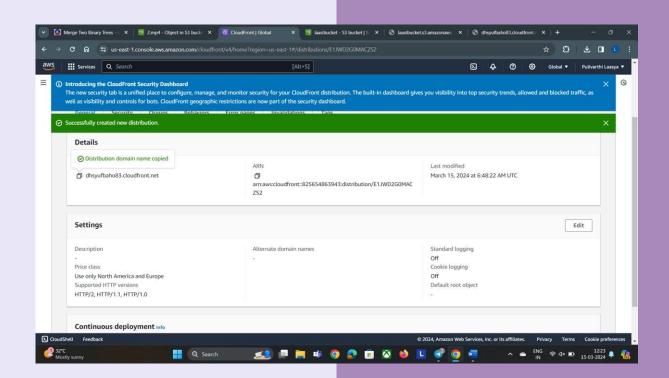


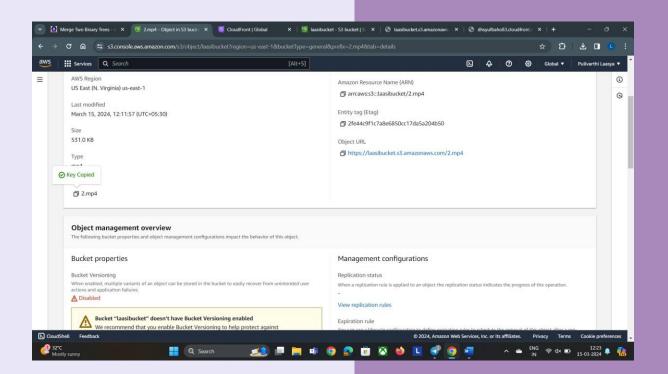
















### Conclusion

In harnessing Amazon Web Services (AWS) to forge a serverless video streaming service, we unveil a paradigm-shifting solution that resonates profoundly with businesses and developers alike. Through the judicious utilization of AWS's formidable arsenal, encompassing stalwarts like Amazon S3 and CloudFront, we embark on a transformative journey marked by diminished complexities and mitigated costs, all while amplifying scalability and operational efficiency to unprecedented heights. This architectural marvel empowers us to orchestrate seamless video streaming experiences tailored to the exigencies of today's digital milieu. With AWS as our stalwart companion, the arduous task of constructing and stewarding a resilient video streaming platform transcends into an eminently accessible endeavor, freeing us to dedicate our energies towards delivering superlative content experiences sans the encumbrance of archaic server infrastructures

### Links

Linked In Article Link: https://www.linkedin.com/pulse/serverless-video-streaming-service-pulivarthi-laasya-8c0hc

YouTube Link: https://www.youtube.com/watch?v=GgVtV1Kz0dl

# THANK YOU