



01 간단소개

02 미소개

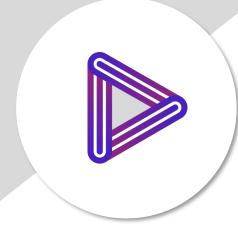
03 SERVERLESS

04 트러블슈팅



간단소개

a brief introduction



CLOUMER

Cloud와 Streamer의 합성어로, 클라우드를 이용하여 스트리밍 서비스를 제공함을 뜻한다.

보다 많은 기능

Azure와 비교하였을 시 AWS는 오래된 역사를 자랑하듯이 많은 기능을 제공해줍니다.



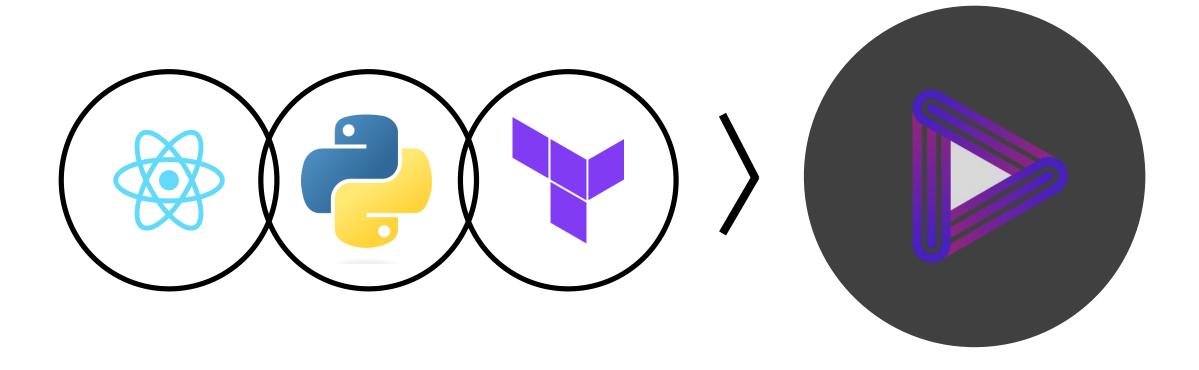
쉬운 문제 해결

AWS는 개발자 커뮤니티를 보유하고 있어 문제 해결 및 지원이 가능하고 유연한 솔루션을 구축할 수 있습니다.

다양한 가격 모델을 제공하여 다양한 옵션을 통해 비용을 효율적으로 관리할 수 있습니다.

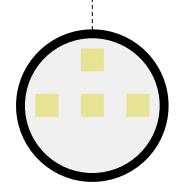


Technology Stack





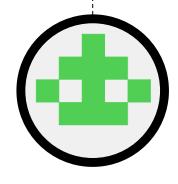
https://github.com/YoungHyeon1/CloudProject



김영현

201995020

BACKEND 개발 CLOUDE SERVICE 운영



홍태의

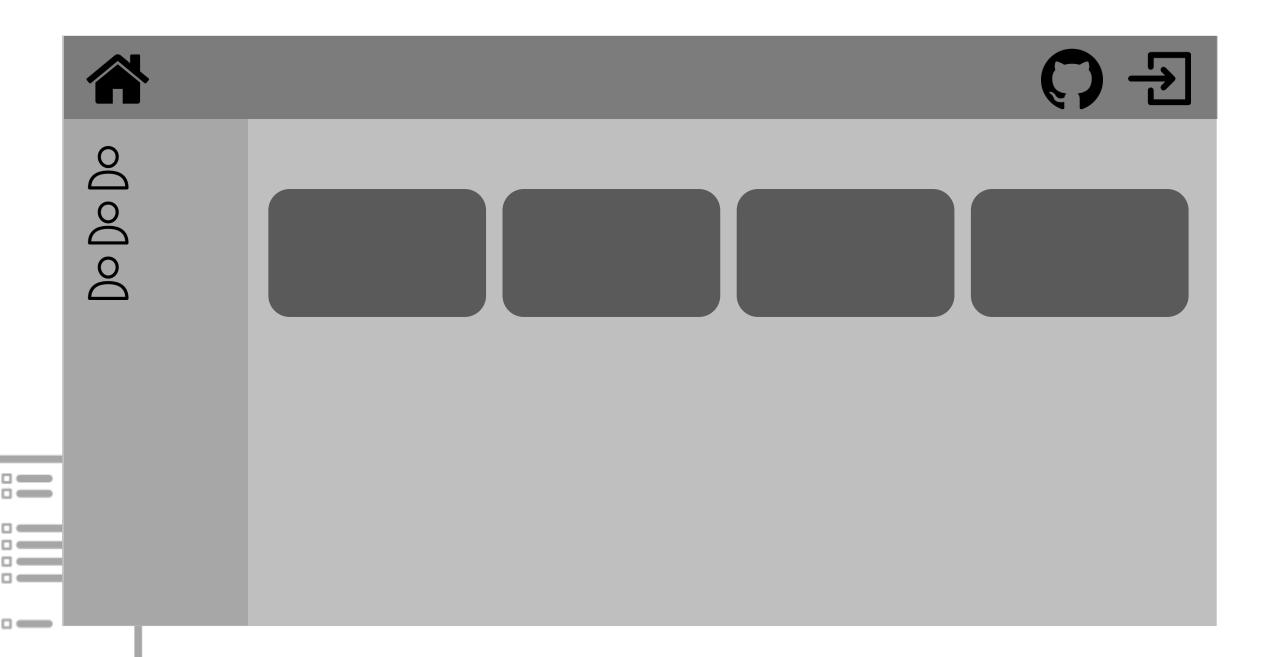
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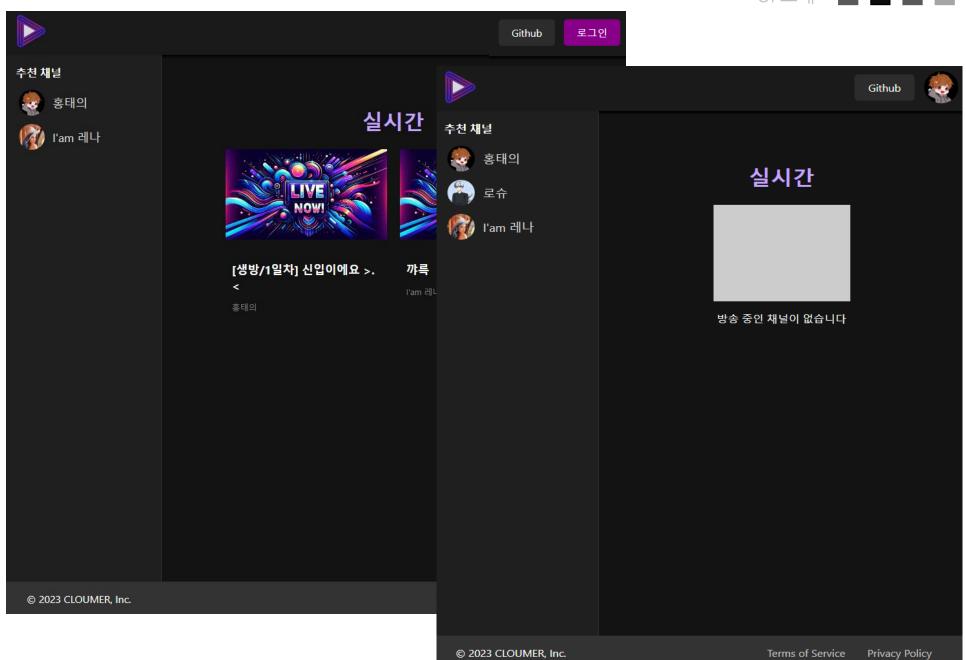
FRONTEND 개발 PPT, 보고서 작성



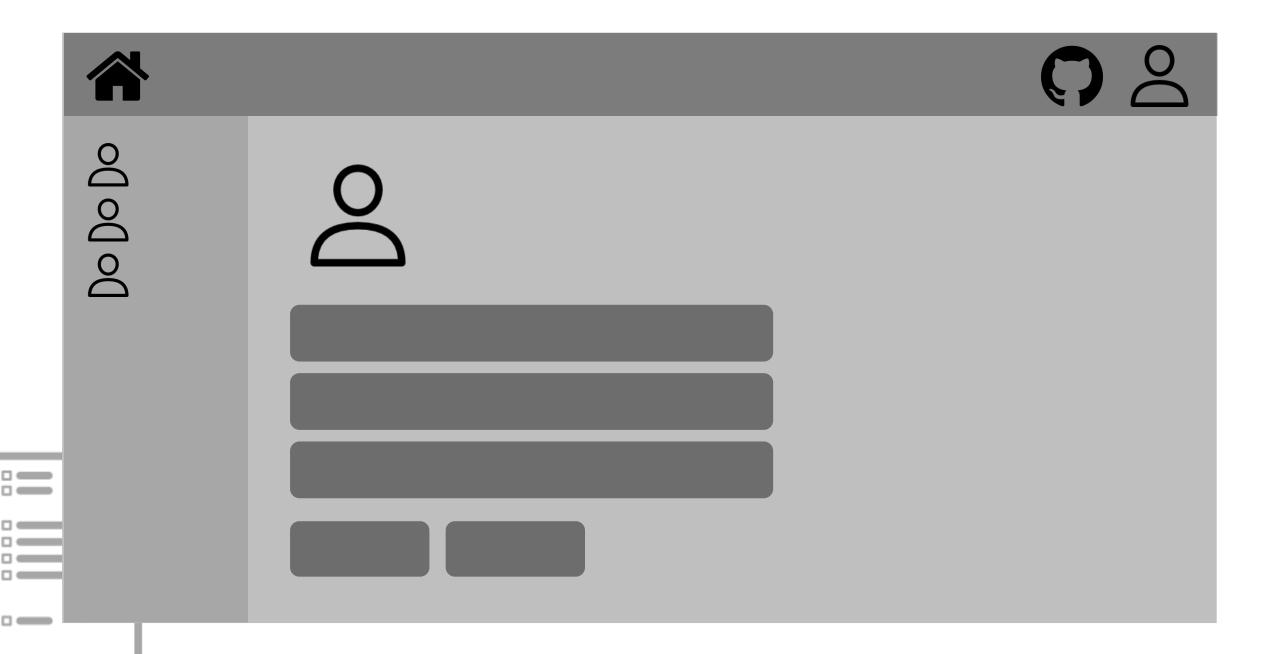
UI 소개

UI Introduction

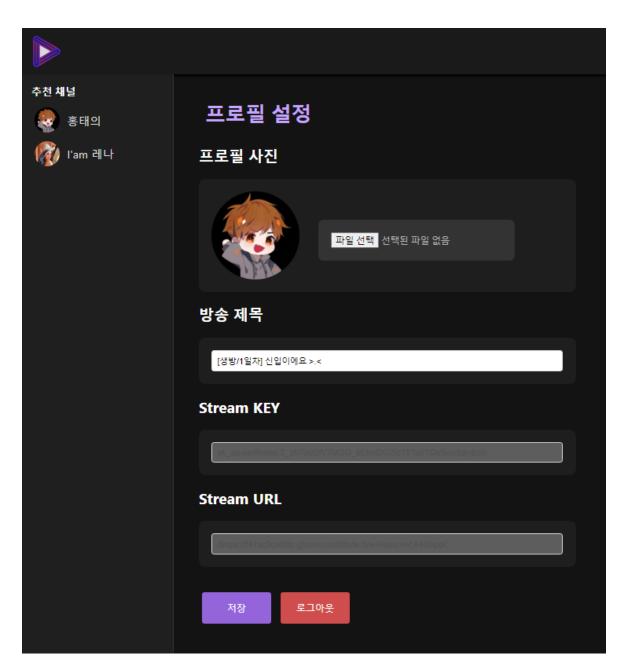






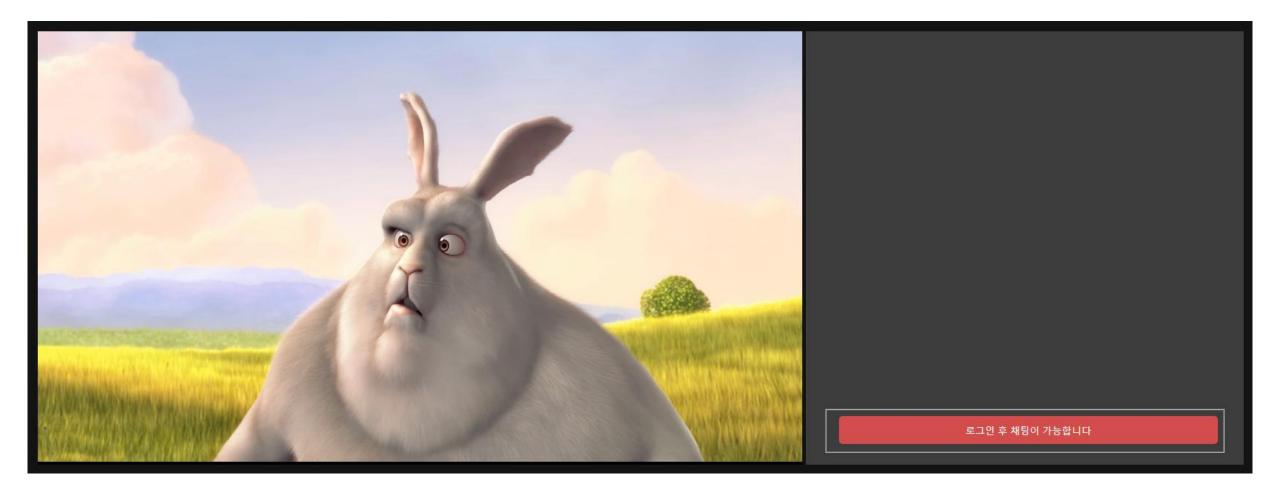




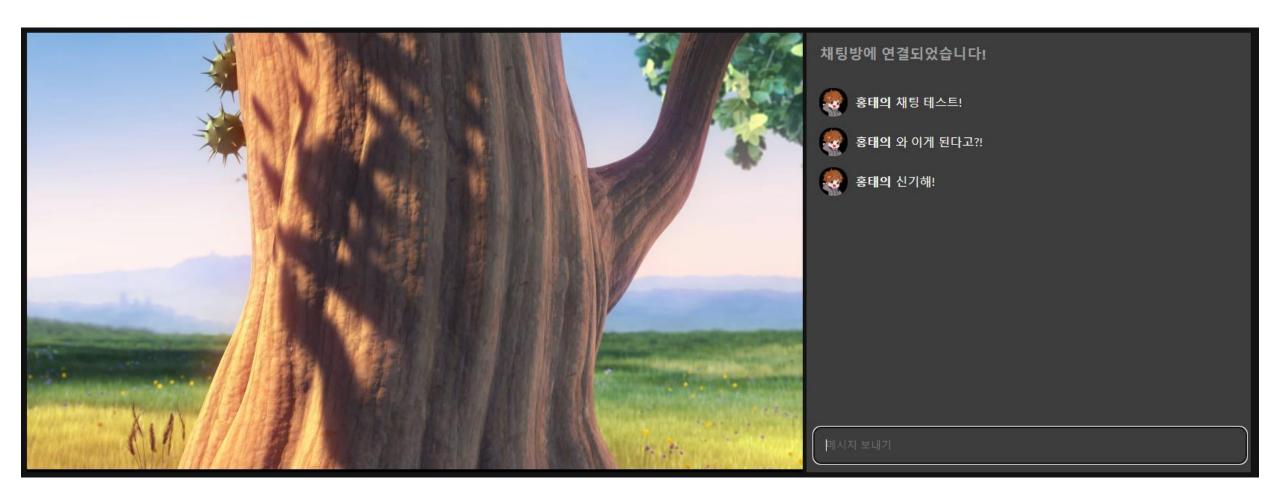














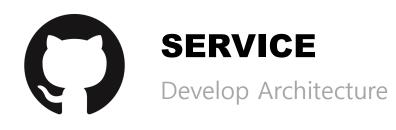


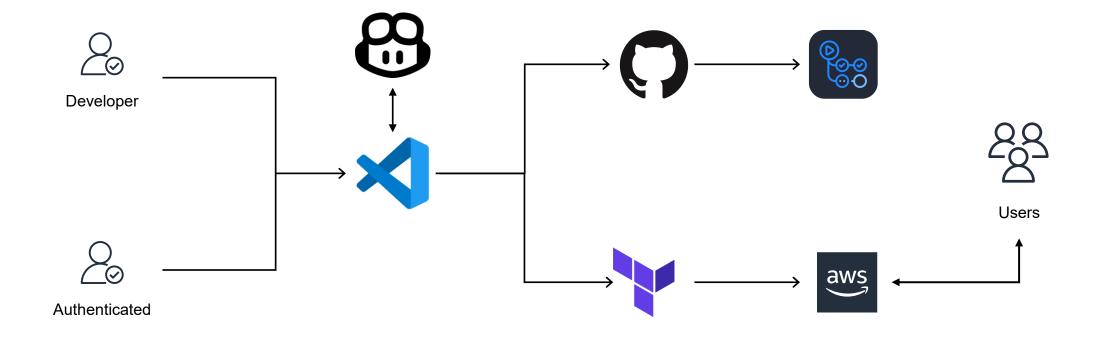
cloumer.kro.kr

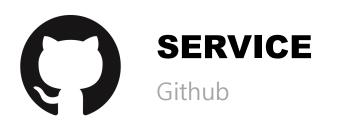


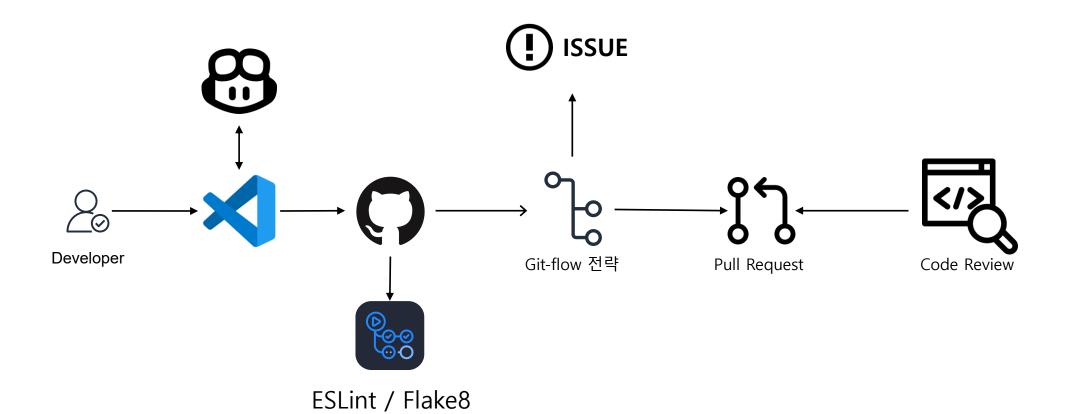
SERVERLESS

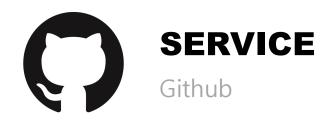
Utilized CLOUD Architecture Serverless



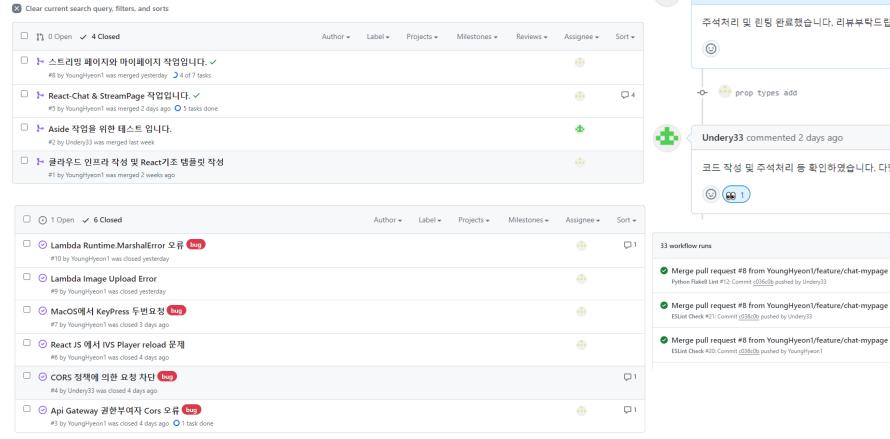








Filters ▼ Q is:pr is:closed



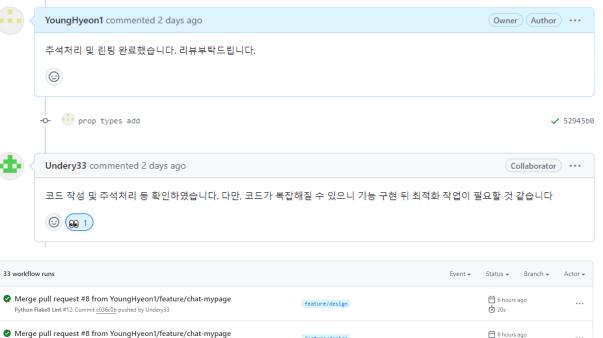
→ Milestones 0

New pull request

ESLint Check #21: Commit c036c0b pushed by Undery33

ESLint Check #20: Commit c036c0b pushed by YoungHyeon1

Chapels 9



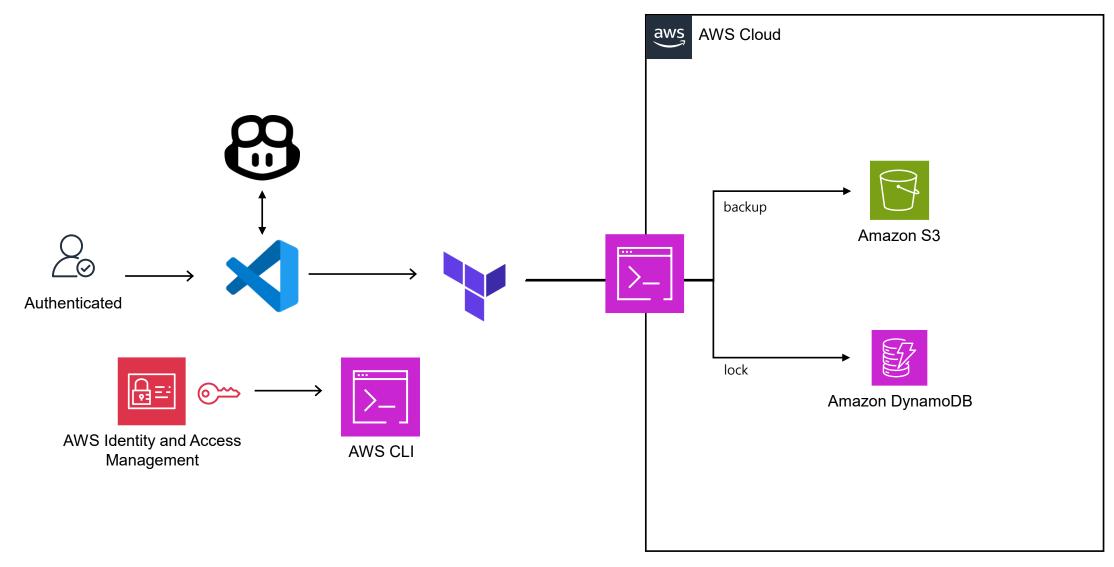
feature/design

₫ 37s

yesterday



Terraform Architecture







Terraform

terraform.tfstate ॡ¥		☐ S3 URI 복사	₩ 다운로드	열기 🖸	객체 작업 ▼	
속성 권한 버전						
객체 개요						
소유자	S3 URI S3://web.stream.silla.terraforn	S3 URI 33://web.stream.silla.terraform.state/terraform.tfstate				
AWS 리전 아시아 태평양(서울) ap-northeast-2 마지막 수정 2023. 12. 8. am 1:11:20 AM KST 크기 123.1KB 유형 tfstate	엔터티 태그(Etag) ① a4ab77c8bf90ce5d79bca06da 객체 URL	☐ am:aws:s3:::web.stream.silla.terraform.state/terraform.tfstate 엔터티 태그(Etag) ☐ a4ab77c8bf90ce5d79bca06da06d04a7				
7 ☐ terraform.tfstate						

```
      스토리지 클래스
      편집

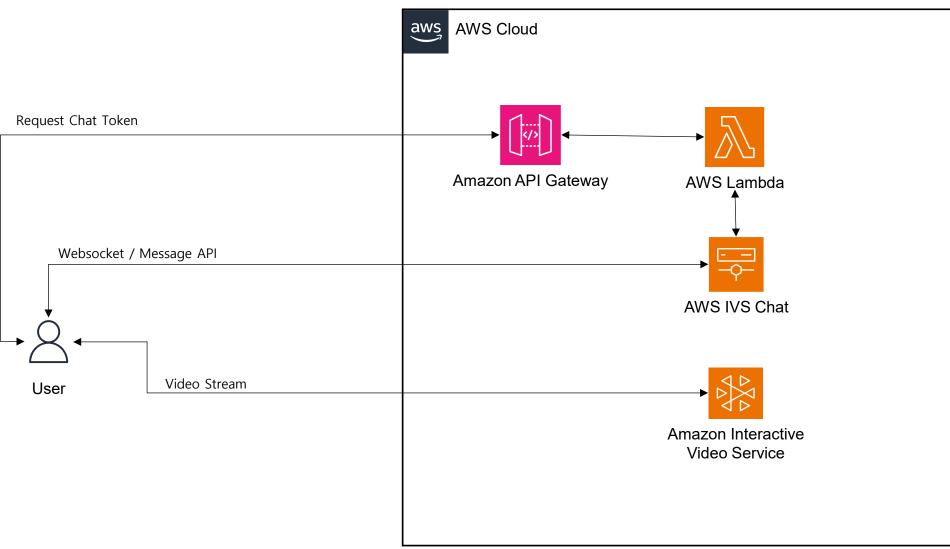
      Amazon S3는 다양한 사용 사례에 맞게 설계된 다양한 스토리지 클래스를 제공합니다. 자세히 알아보기 [** 또는 Amazon S3 요금 [**]을 참조하세요.

      스토리지 클래스

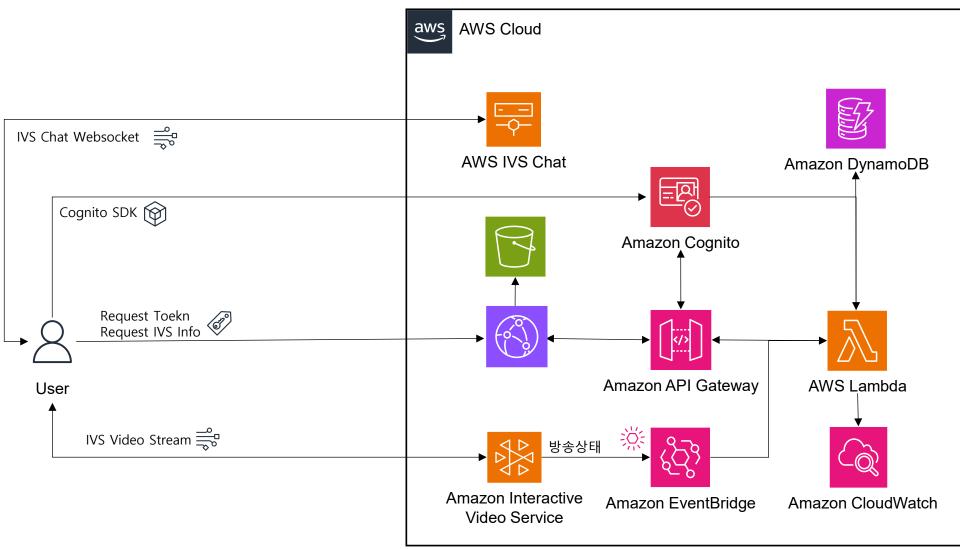
      Standard
```

```
resource "aws_dynamodb_table" "terraform_state_lock" {
                = "TerraformStateLock"
  name
 attribute {
   name = "LockID"
resource "aws_s3_bucket" "terraform-state" {
 bucket = "web.stream.silla.terraform.state"
 lifecycle {
   prevent_destroy = true
terraform {
 required_providers {
   aws = {
     source = "hashicorp/aws"
     version = ">= 5.0.0"
  backend "s3" {
                  = "web.stream.silla.terraform.state"
   bucket
                  = "terraform.tfstate"
                  = "ap-northeast-2"
   dynamodb_table = "TerraformStateLock"
                  = "bucket-owner-full-control"
```



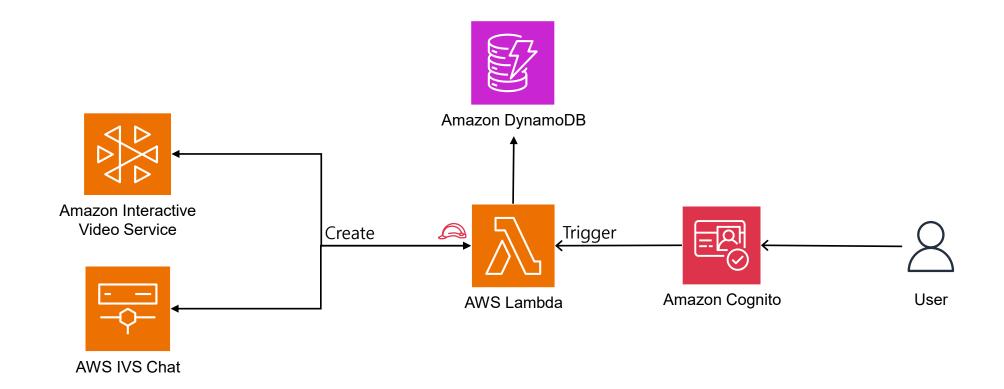








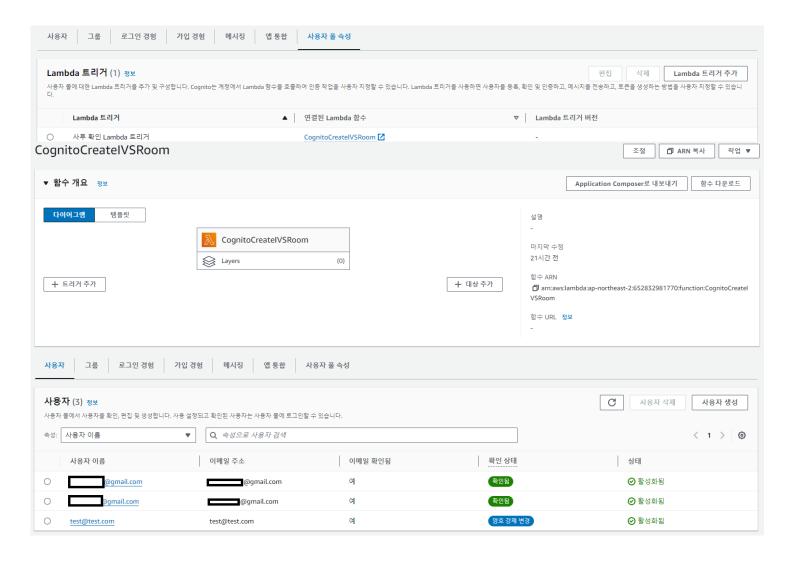
Singup





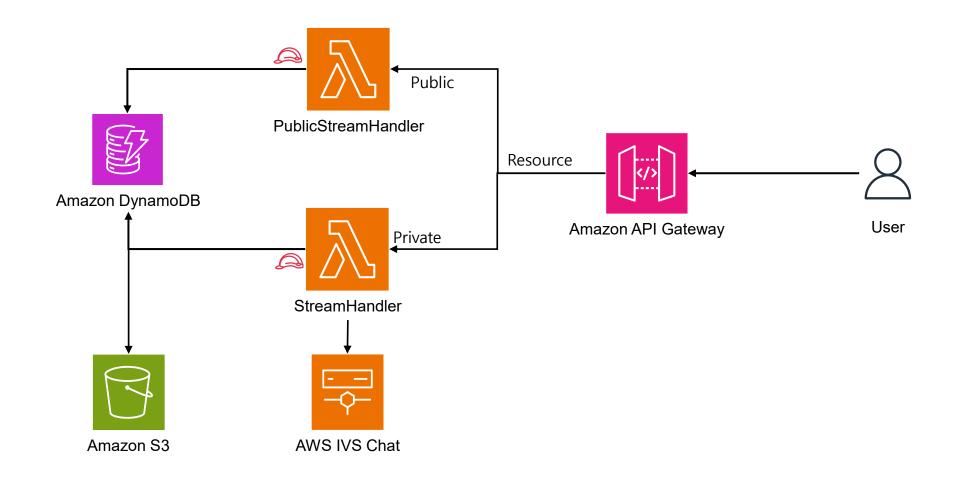


Singup



```
import boto3
import random
import string
dynamodb = boto3.resource('dynamodb')
def generate_random_string(length=10):
       ChanelName을 생성하는 코드입니다.
       기본 10자리로 Cognito의 Attribute 또한 10~11 자리로 설정했습니다.
   characters = string.ascii_letters + string.digits + "_-"
   random_string = ''.join(random.choice(characters) for _ in range(length))
   return random_string
def create_room_handler(event, context):
       생성된 채널이름을 통해 IVS 채널과 IVS Chat방을 생성합니다.
```

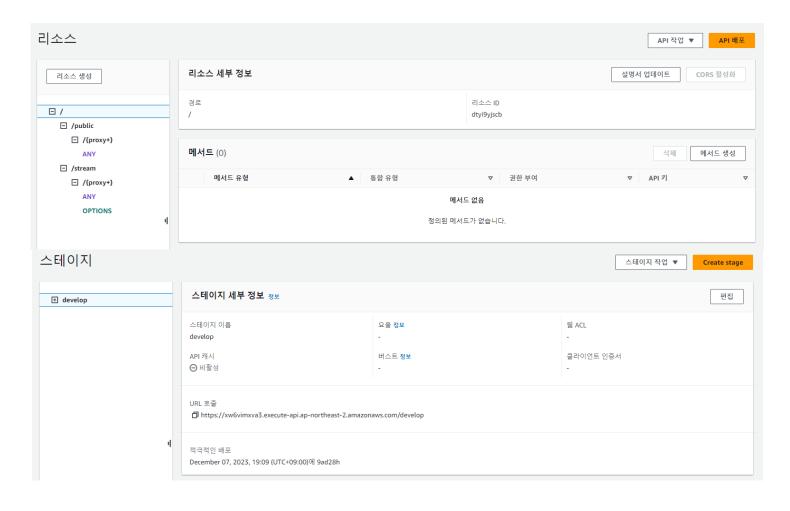
API





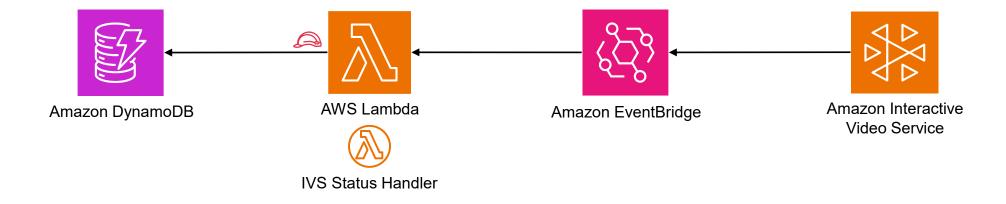


API



```
• • •
def create_token(event):
   event에서 받은 params에서 채팅의 RoomToken값을 가져옵니다.
   query_params = event.get('queryStringParameters', {})
   target_chanel = query_params.get('targetChanel', None)
   if target_chanel is None:
       return {
            'headers': headers,
            'body': json.dumps('Invalid request')
   result = {}
   client = boto3.client('ivschat')
   table = dynamodb.Table('UsersIntegration')
   chanel_name = (
       event['requestContext']['authorizer']
       ['claims']['custom:chanelName']
   try:
       target_response = table.query(
           KeyConditionExpression=Key('SubKey').eg(target_chanel)
           KeyConditionExpression=Key('SubKey').eq(chanel_name)
       chat_arn = target_response['Items'][0]['IvsChatArn']
           capabilities=['SEND_MESSAGE'],
           roomIdentifier=chat_arn,
           sessionDurationInMinutes=100,
           userId=chanel_name,
           attributes={
                "username": (
                   event["requestContext"]["authorizer"]
                        ["claims"]["nickname"]
                "avatar": my_response['Items'][0]['profile']
```

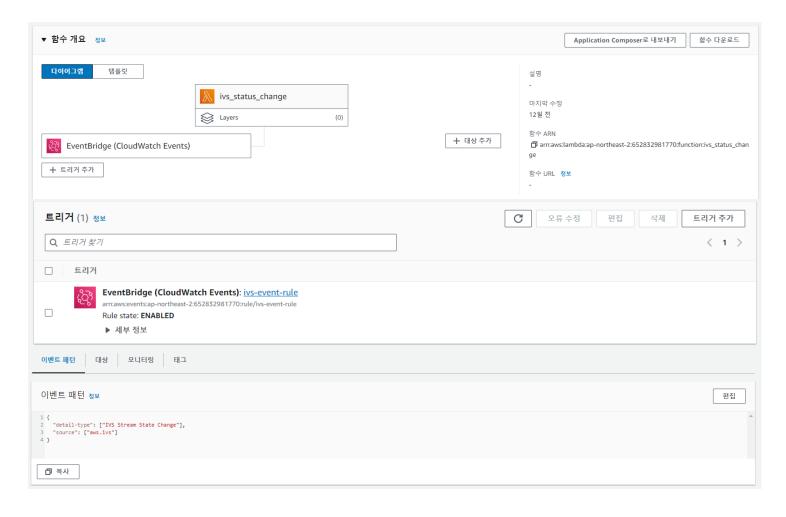
EventBridge







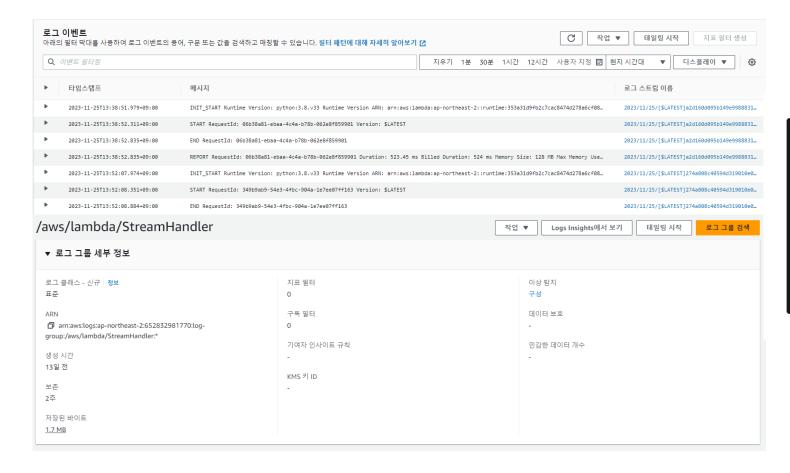
EventBridge







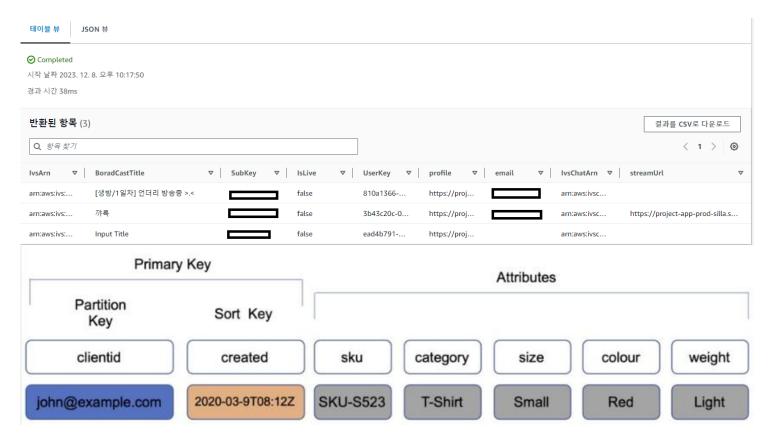
Cloudwatch







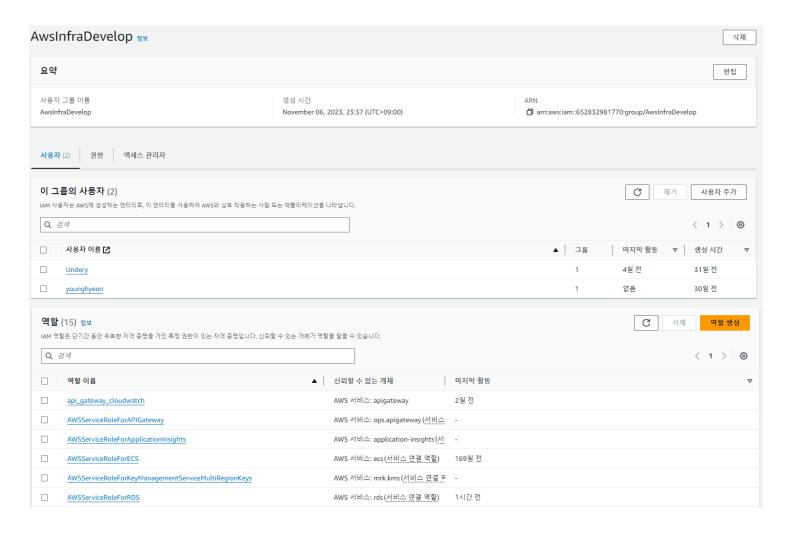
DynamoDB







IAM



```
data "aws_iam_policy_document" "lambda_logging" {
    statement {
        effect = "Allow"

        actions = [
            "logs:CreateLogGroup",
            "logs:PutLogEvents",
            "dynamodb:PutItem",
            "dynamodb:PutItem",
            "dynamodb:Query",
            "dynamodb:Query",
            "dynamodb:Scan",
            "dynamodb:DeleteItem",
            "execute-api:ManageConnections"
        ]

    resources = [
            "arn:aws:logs:*:*:*",
            aws_dynamodb_table.chat_messages.arn,
            aws_dynamodb_table.user_connections.arn,
            "arn:aws:execute-api:ap-northeast-2:${var.accountId}:${var.socketId}/*/*/@connections/*"
        }
    }
}
```



트러블슈팅

Troubleshooting

