

API 결제 및 연동

DockerHub

GoogleMap

OpenWeatherMap

AWS lightSail 사용

# API 결제 및 연동

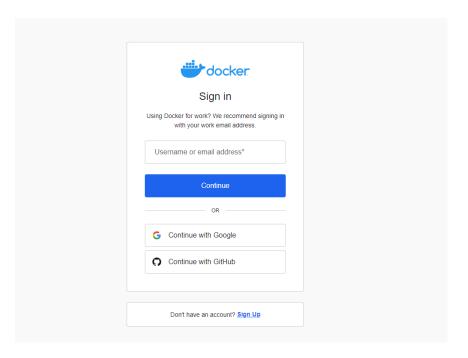
## **DockerHub**

- > Image를 저장하고 분산 빌드로 사용하기 위한 Registry로 Docker hub 사용함.
- 1. 로그인

#### Docker Hub Container Image Library | App Containerization

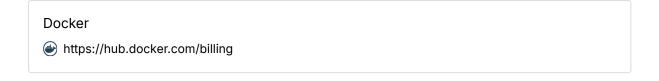
Introducing Docker Build Cloud: A new solution to speed up build times and improve developer productivity

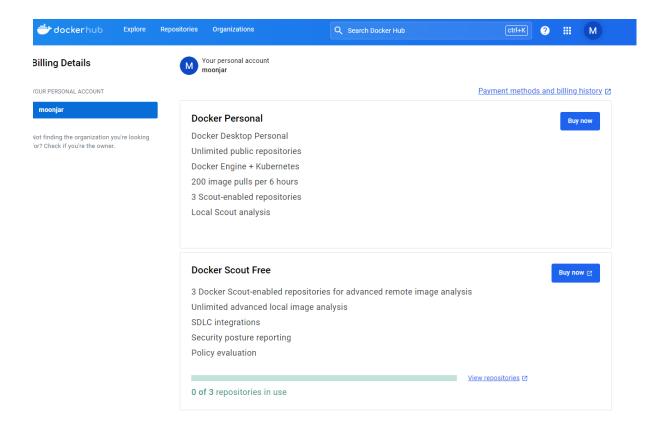
https://hub.docker.com/



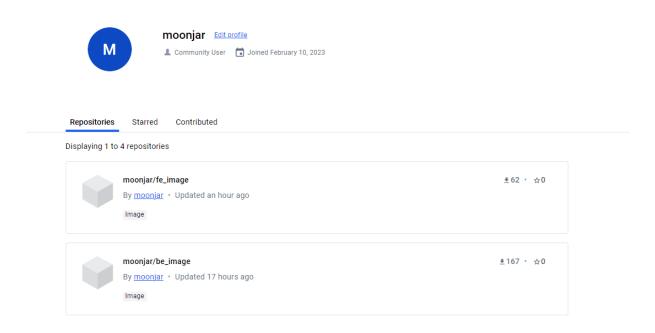
#### 2. Docker Personal로 결제

- → 일반 유저도 가능하나 fe,be 다른 레포지토리에 이미지를 저장하기 위함.
- → 일반유저는 레포지토리가 하나 뿐임





## 3. Repositoriy 확인



## 4. 개인 레포지토리로 이미지 저장하기

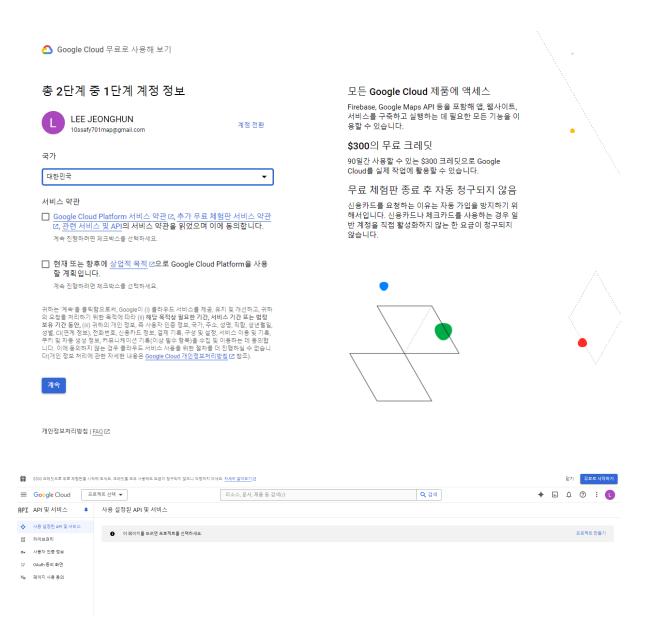
docker push {username}/image\_name

## GoogleMap

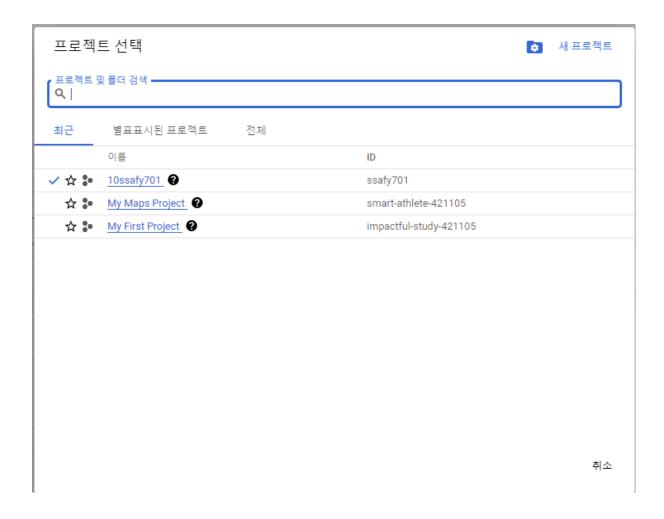
### 1. 구글 클라우드 콘솔 접속

https://console.cloud.google.com/apis/dashboard?hl=ko&project=practical-gecko-253302

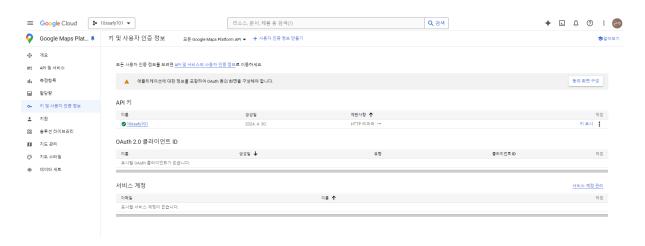
## 2. 계정 활성화 → 결제 정보 추가



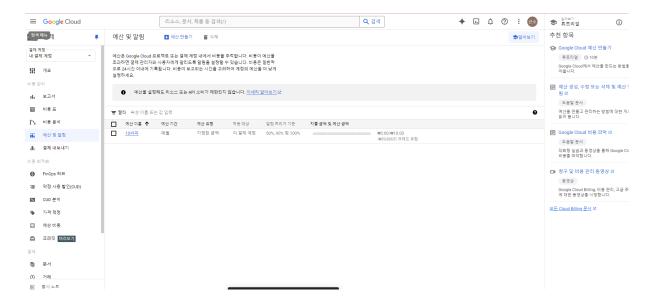
#### 3. 새로운 프로젝트 생성



### 4. API 키 생성



#### 5. 결제 방지를 위한 예산 알림 생성



# **OpenWeatherMap**

#### 1. 로그인

#### Current weather and forecast

OpenWeather provides comprehensive weather data services, including current, forecast, and historical weather information. Explore a wide range of APIs for solar radiation, road risk assessment, solar energy prediction, and more, with global coverage and user-friendly access. Ideal for

https://openweathermap.org/

#### 2. 학생 인증 후 API 키 발급받기

#### Student initiative - OpenWeather

Embark on your scientific and academic research with OpenWeather's dedicated support - dive into our free educational data packages designed to empower your studies!

https://docs.openweather.co.uk/our-initiatives/student-initiative

#### 3. 통계 API 사용

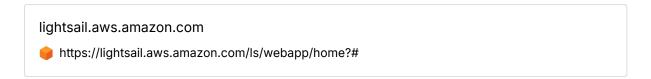
#### Statistical Weather Data API

Explore OpenWeather's Statistical Weather Data API offering statistical data on key weather parameters for specific dates, months, or the entire year. It is an essential tool for climate research and forecasting. The API provides accurate information on temperature, pressure, humidity, and

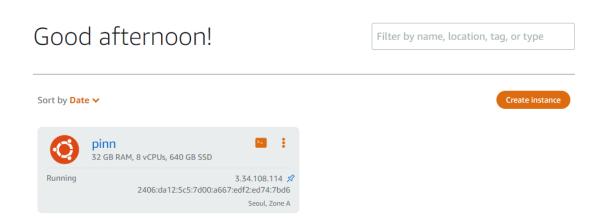
https://openweathermap.org/api/statistics-api

# AWS lightSail 사용

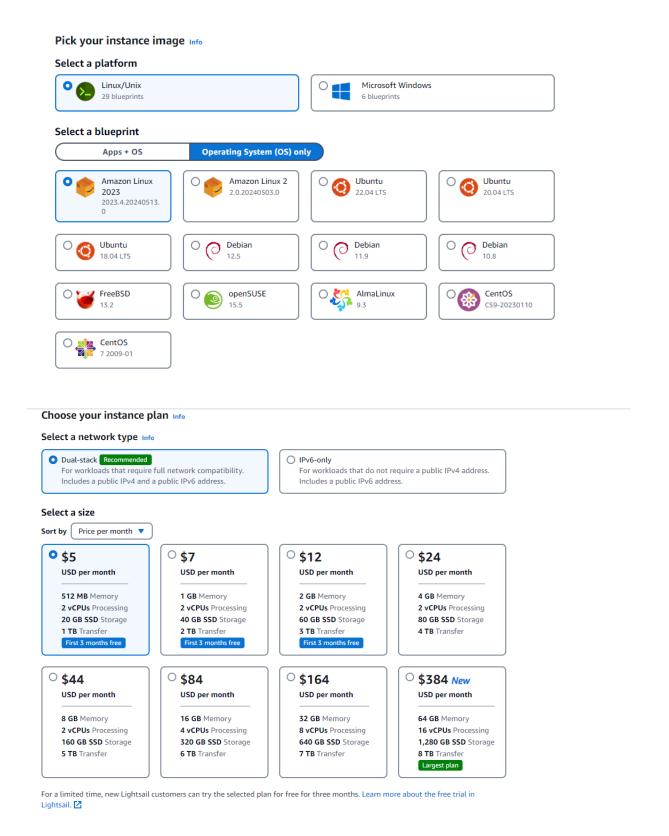
1. 로그인 후 AWS lightsail 패널 접속



#### 2. Create Instance



#### 3. 인스턴스 옵션 설정



## 3. Pem.key 발급 후 ssh 연결을 위한 chmod 권한 설정

Connect Metrics Snapshots Storage Networking Domains

#### Connect to your instance Info

You can connect using your browser, or your own compatible SSH client.

#### Use your browser

Connect using our browser-based SSH client

Connect using SSH

#### Use your own SSH client

Use the following credentials to connect to your instance.

Connect using an SSH client <a>C</a>

CONNECT TO

3.34.108.114

IPv6: 2406:da12:5c5:7d00:a667:edf2:ed74:7bd6

USER NAME

#### ubuntu

SSH KEY

This instance uses your current **default** SSH key for this region.

Download default key

- Download Default Key를 통해서 pem key 다운로드 가능
- 4. Public IP stach 및 방화벽 오픈

## IPv4 networking

The public IP address of your instance is accessible to the internet. The private IP address is accessible only to other resources in your Lightsail account.



Your instance is using a static IP as its public IPv4 address. A static IP doesn't change when you stop and start your instance.

#### IPv4 Firewall ?

Create rules to open ports to the internet, or to a specific IPv4 address or range.

Learn more about firewall rules 🛂

+ Add rule

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# + Add rule

Application	Protocol	Port or range / Code	Restricted to		
SSH	TCP	22	Any IPv4 address Lightsail browser SSH/RDP ①	Ø	Ù
HTTP	TCP	80	Any IPv4 address	Ø	Ù
HTTPS	TCP	443	Any IPv4 address		Ù
Custom	TCP	3000 → 3001	Any IPv4 address	Ø	Ù
MySQL/Aurora	TCP	3306	Any IPv4 address	Ø	Ù
Custom	TCP	6379	Any IPv4 address	Ø	Ù
Custom	TCP	8080 > 8081	Any IPv4 address		Ù
Custom	TCP	9090	Any IPv4 address		Ù
Custom	TCP	9100	Any IPv4 address		Ù
Custom	TCP	27017	Any IPv4 address		Ù