



Google Developer Student Clubs
Dongguk University

GDSC DGU OPEN Seminar

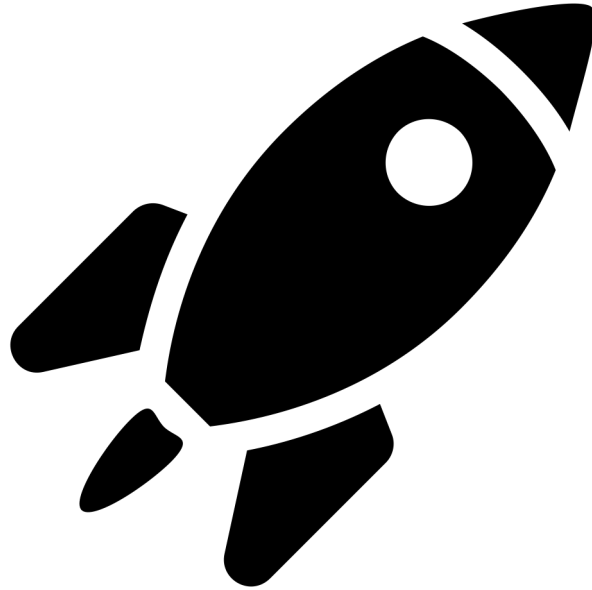
야! 너두 할 수 있어! **Deploy**

GDSC DGU Core Member Server/Cloud HyungJoon Son

Introduction

개발 도중 가장 긴장될 때는?

Introduction



Introduction

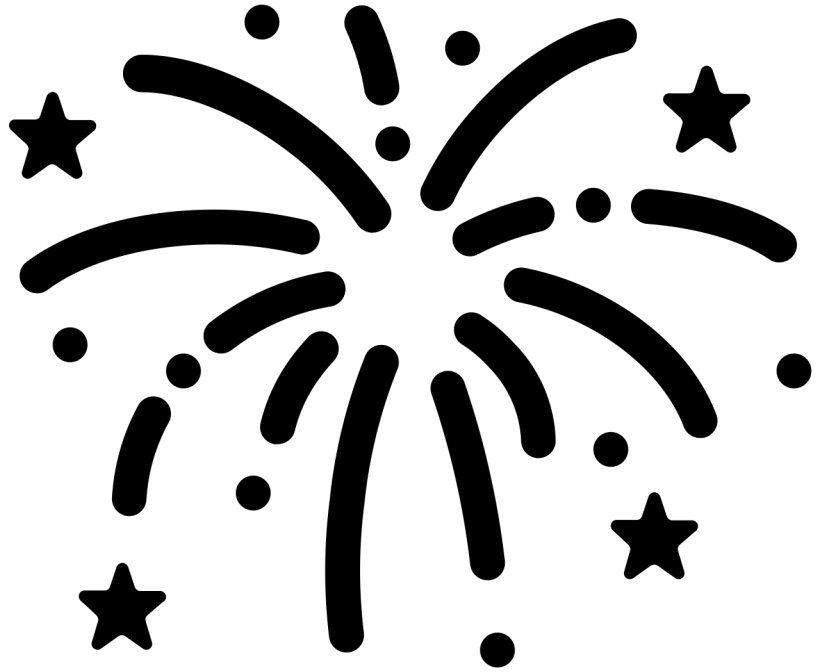
이제 배포하자

나 API 연결할... 게?

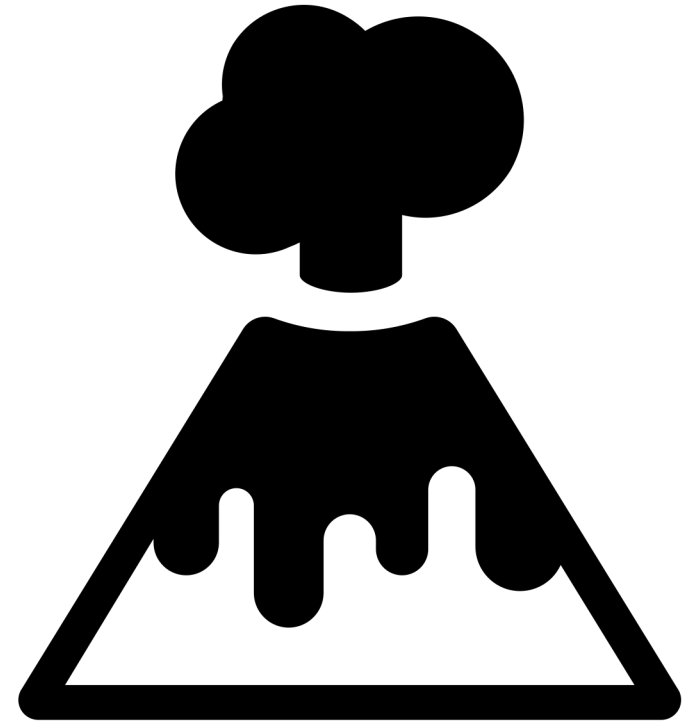
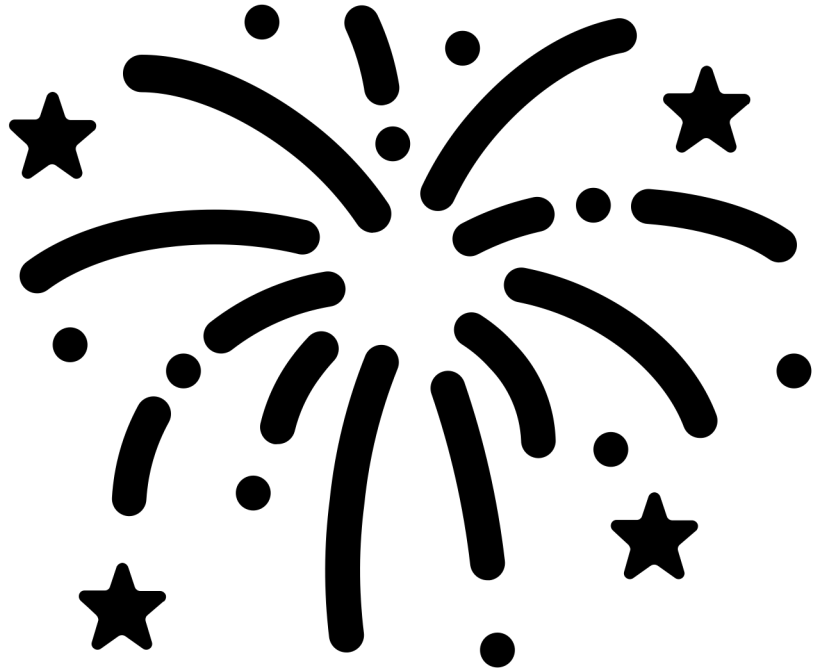
서버 올려줘!

아 CORS...

Introduction



Introduction



소프트웨어 배포(Software Deployment)

최종 사용자에게 소프트웨어를 전달하는 과정
실행 가능한 파일(jar, war)을 사용자 접근할 수 있는 환경에 배치하는 것

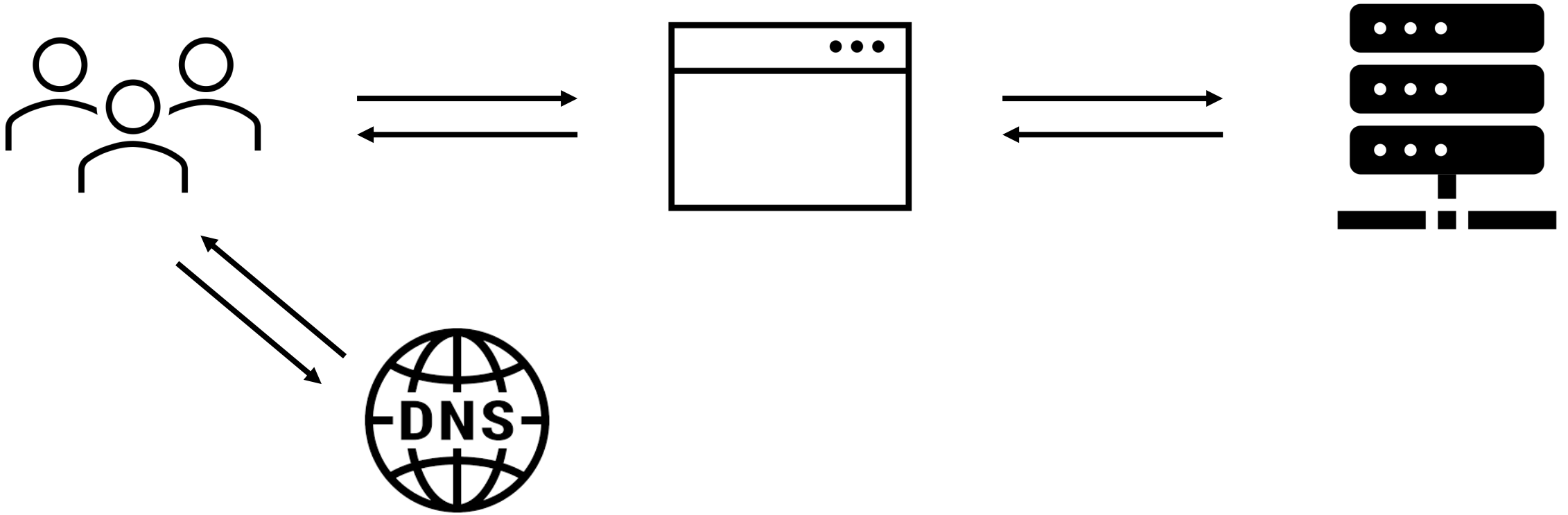
Deployment

그럼 개발자한테는?

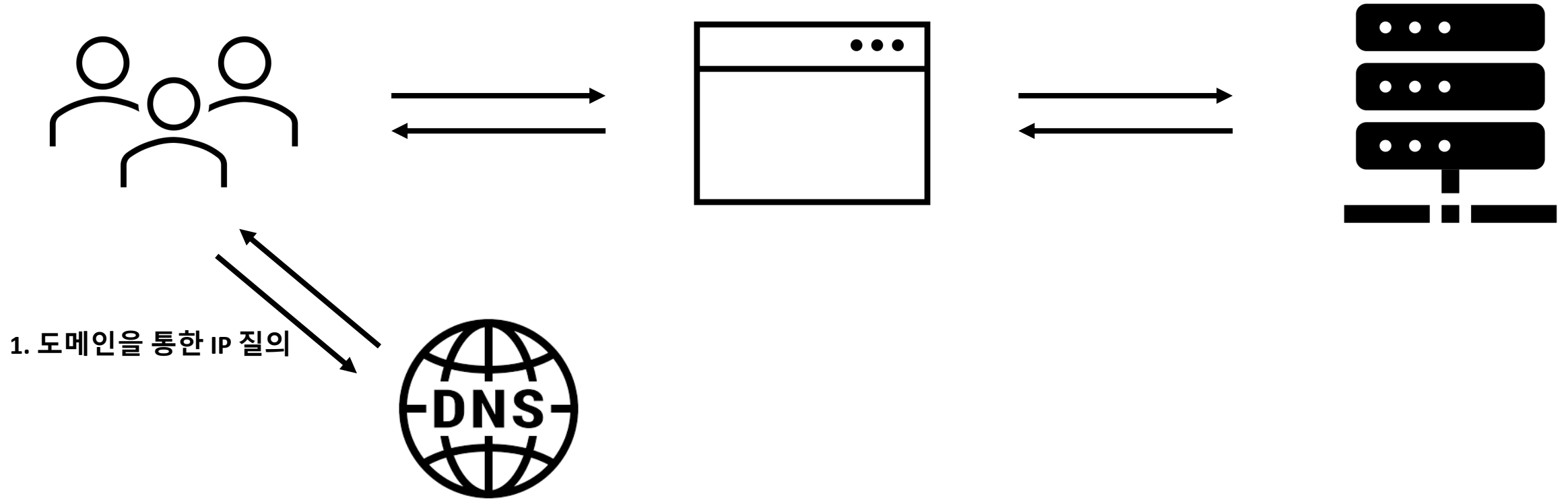
그럼 개발자한테는?

두렵다... 신난다...

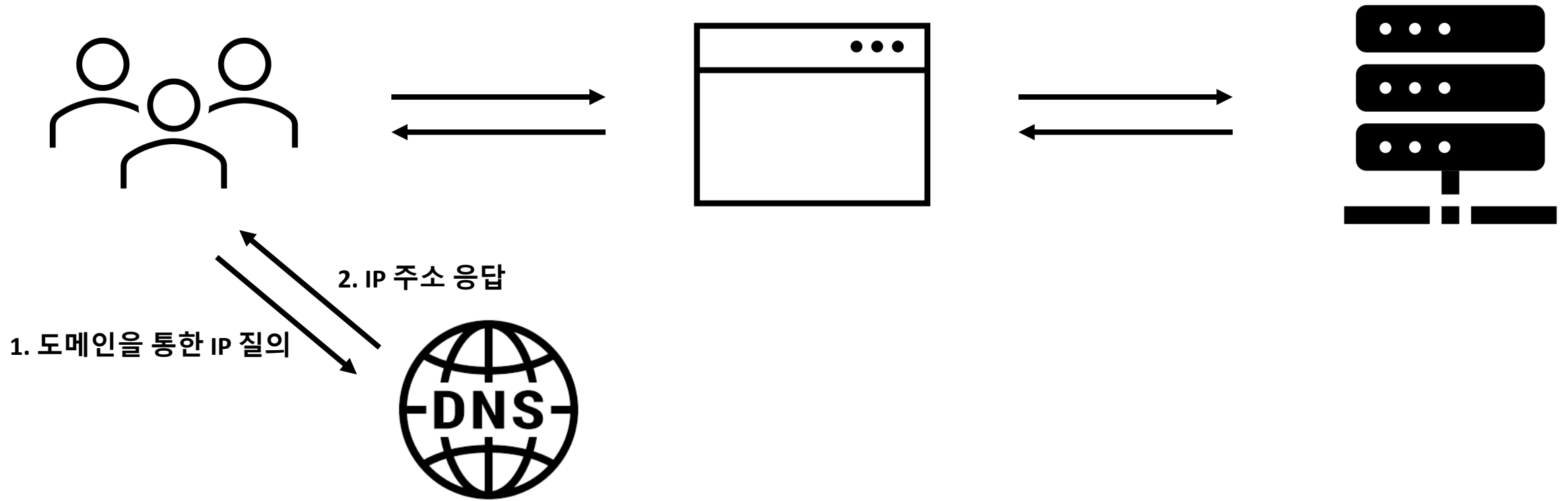
사용자의 관점



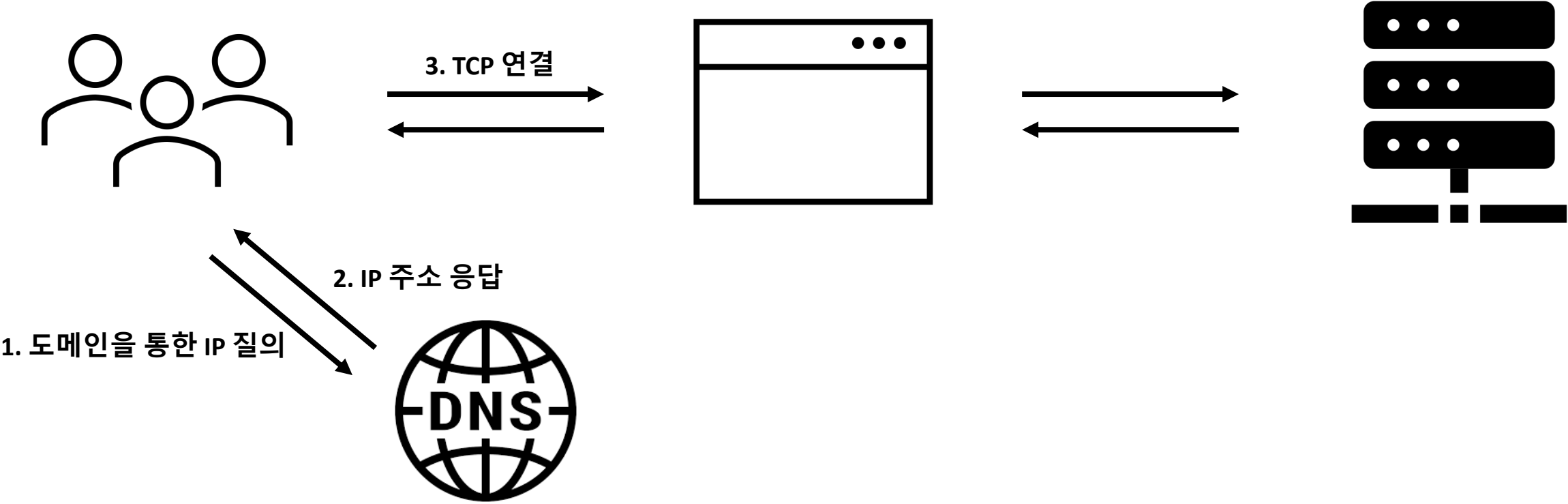
사용자의 관점



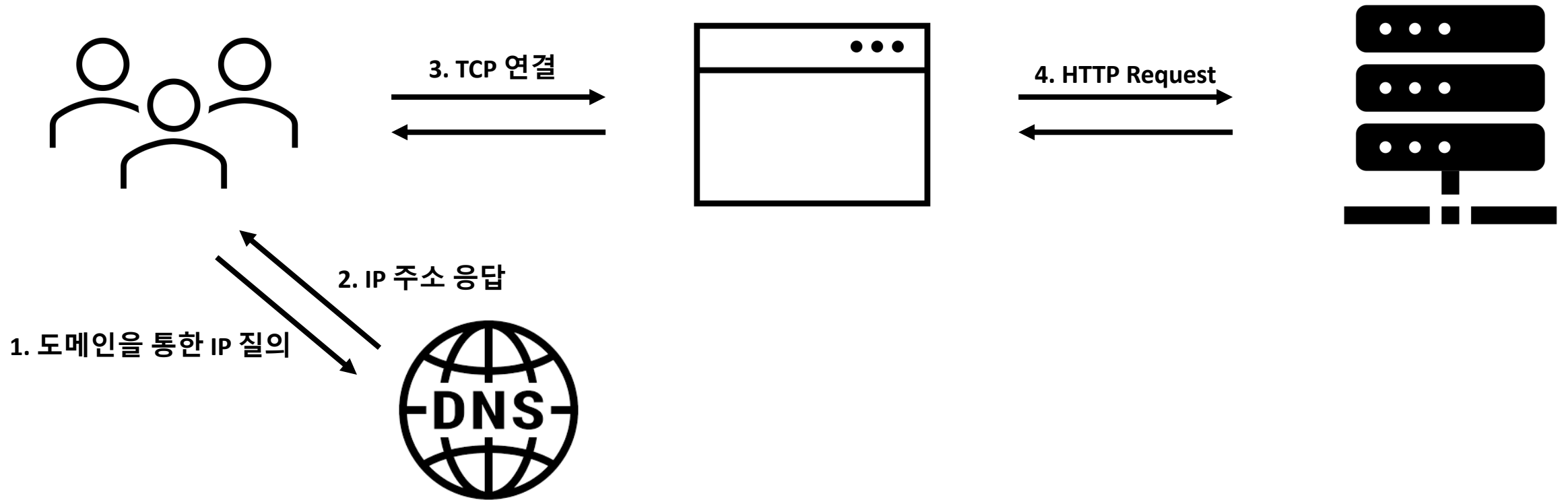
사용자의 관점



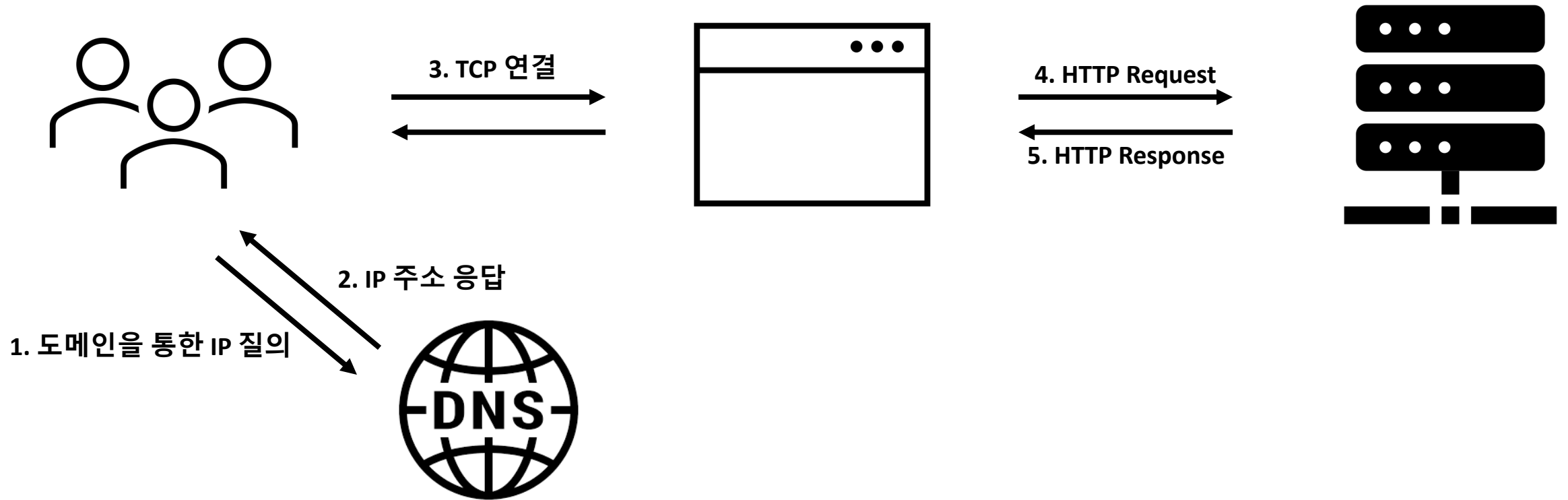
사용자의 관점



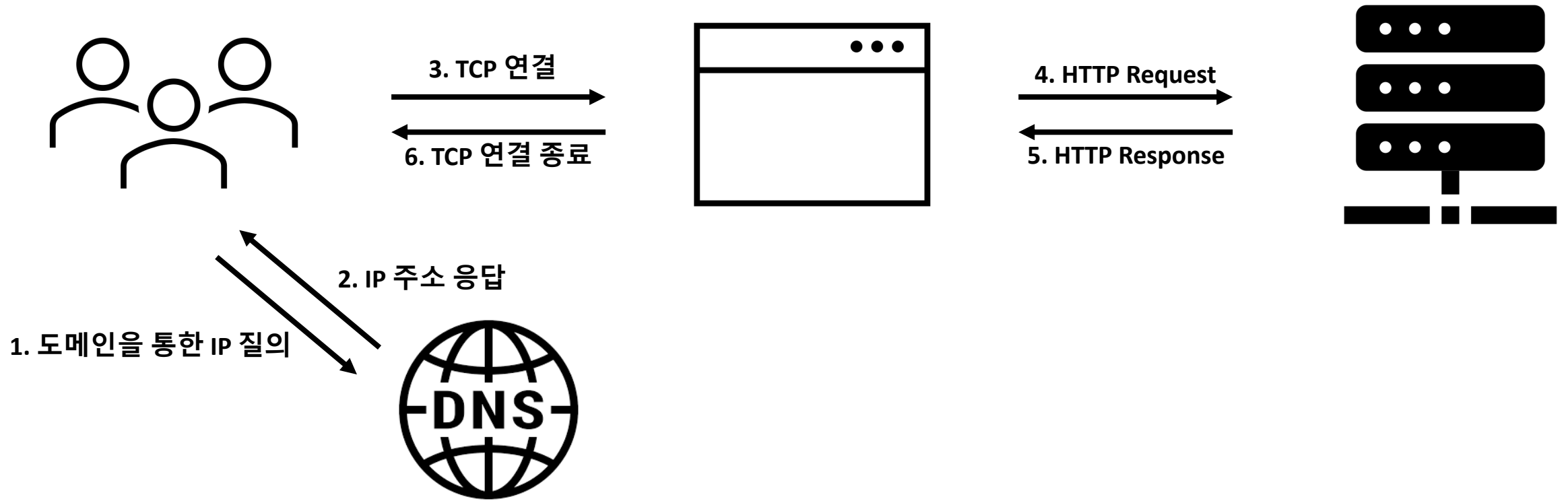
사용자의 관점



사용자의 관점



사용자의 관점





FrontEnd Developer가 고려할 사항은?

정적 리소스

고정된 HTML, CSS, JS, 이미지, 영상 등을 제공하며 주로 웹 브라우저를 의미
Ex) Build된 React Files 등

동적 리소스

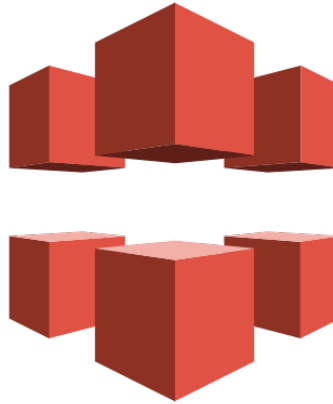
동적으로 필요한 HTML 파일을 생성해서 전달해야 하는 것을 의미
Ex) Run한 React, Next.JS 등

정적 리소스



DNS

(Domain Name System)



CDN

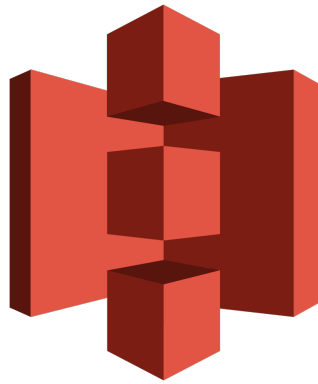
(Content Delivery Network)



Object Storage

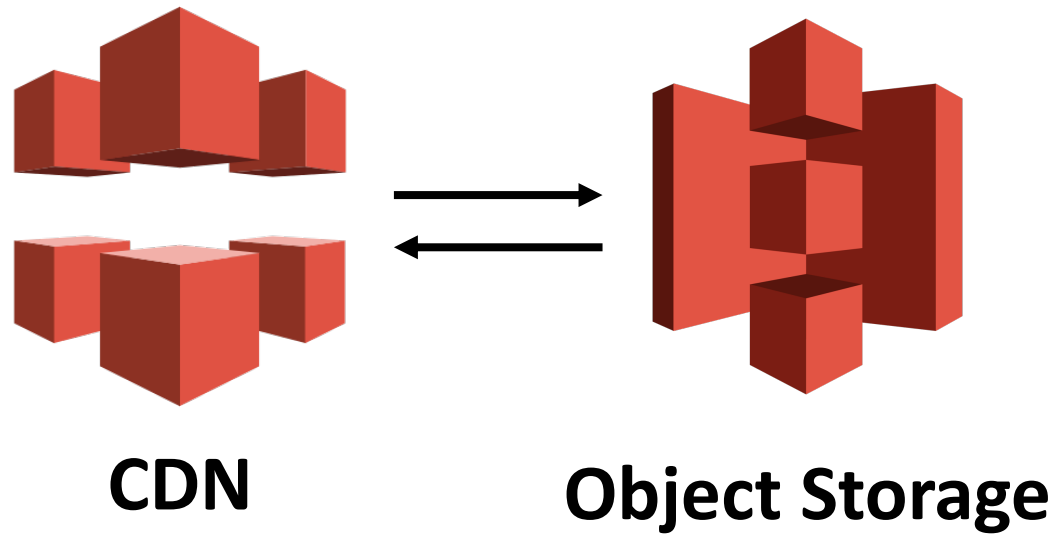
(HDD/SDD)

정적 리소스

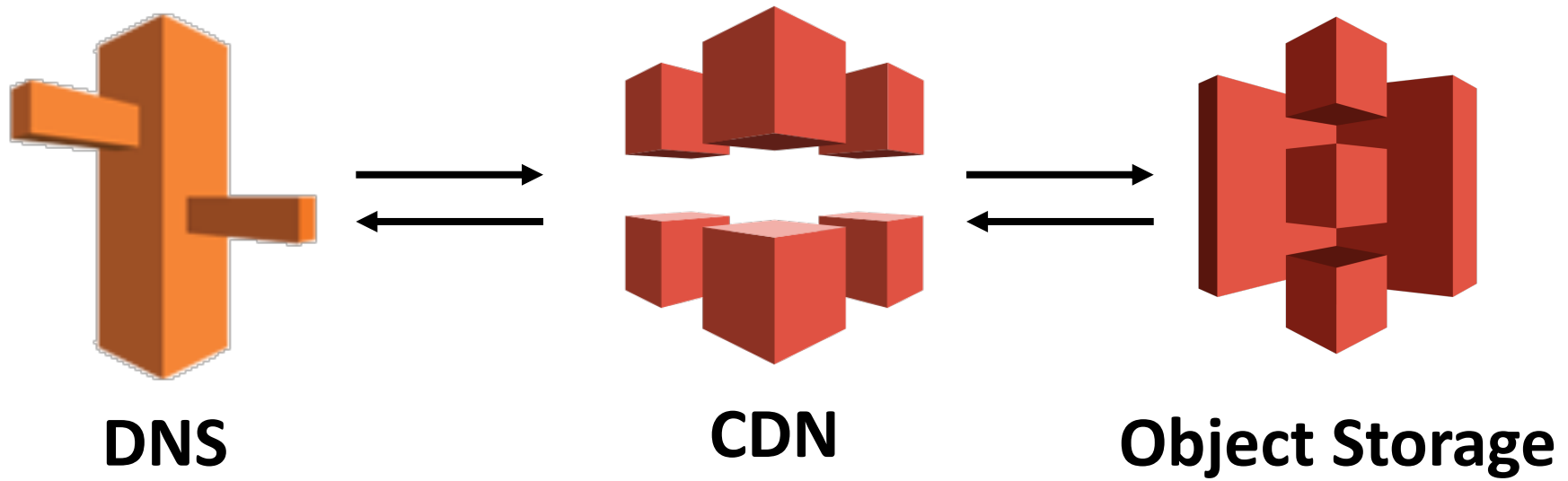


Object Storage

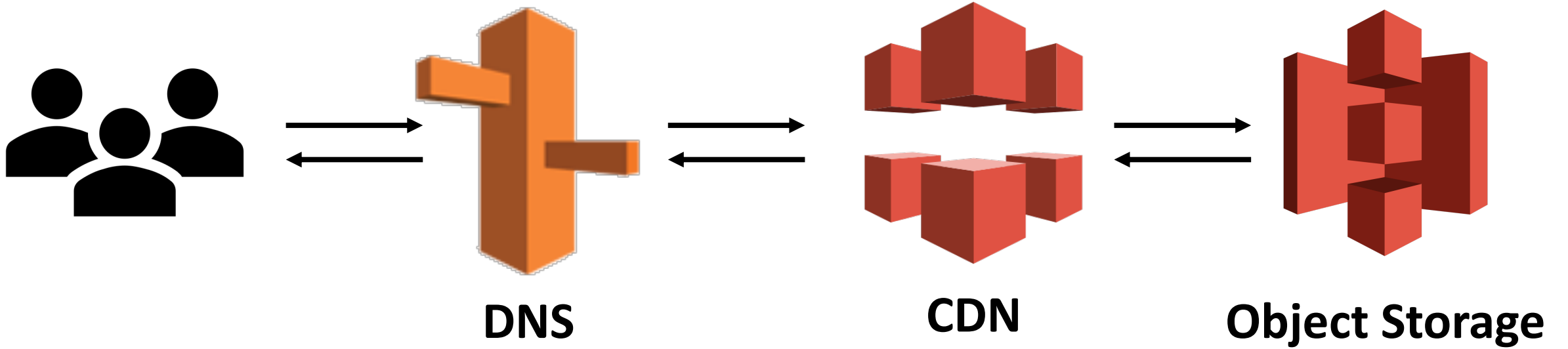
정적 리소스



정적 리소스



정적 리소스

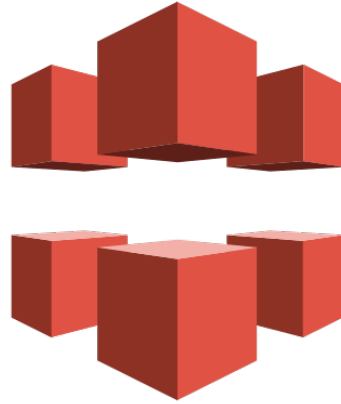


동적 리소스



DNS

(Domain Name System)



CDN

(Content Delivery Network)



Cloud Compute

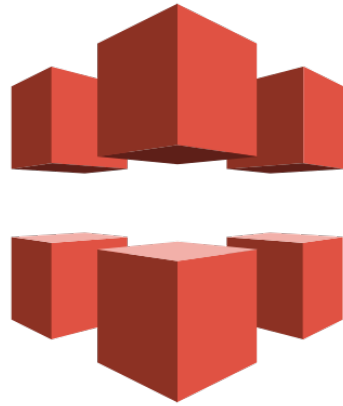
(Elastic Compute Cloud)

동적 리소스



Cloud Compute

동적 리소스



CDN

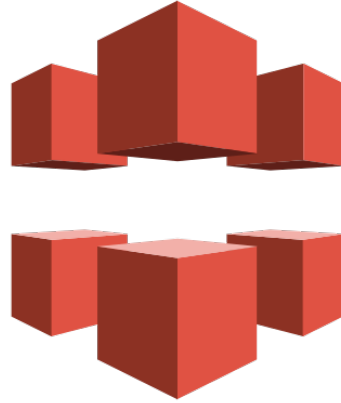


Cloud Compute

동적 리소스



DNS

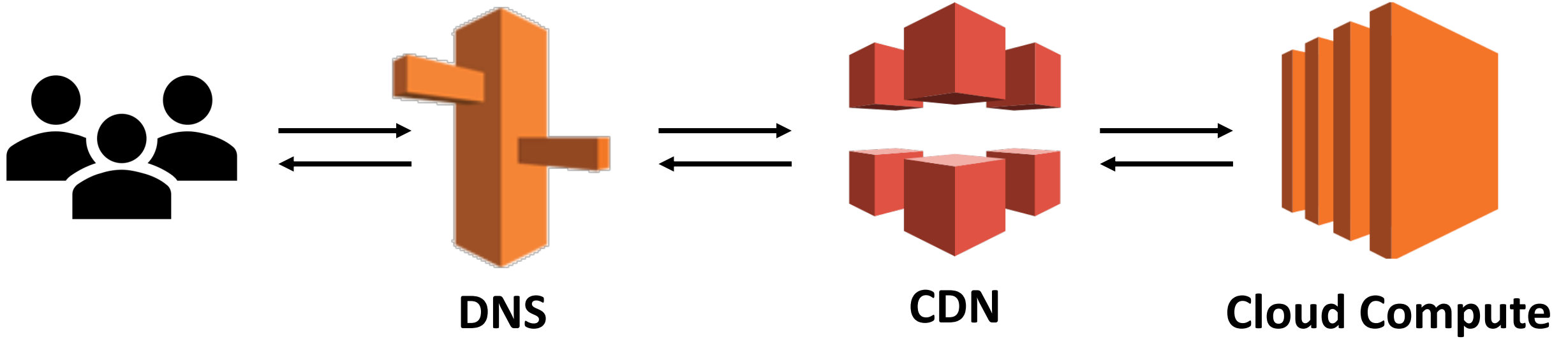


CDN



Cloud Compute

동적 리소스



BackEnd Developer가 고려할 사항은?

BackEnd

Jar, War

Docker

Heroku

Pin Point

k8s

Zip

Edge Computing

Terraform

BackEnd

Jar, War

Docker

Heroku

Pin Point

k8s

Zip

Edge Computing

Terraform

Docker 란?

개발자가 컨테이너를 빌드, 배포, 실행, 업데이트, 관리할 수 있는 오픈소스

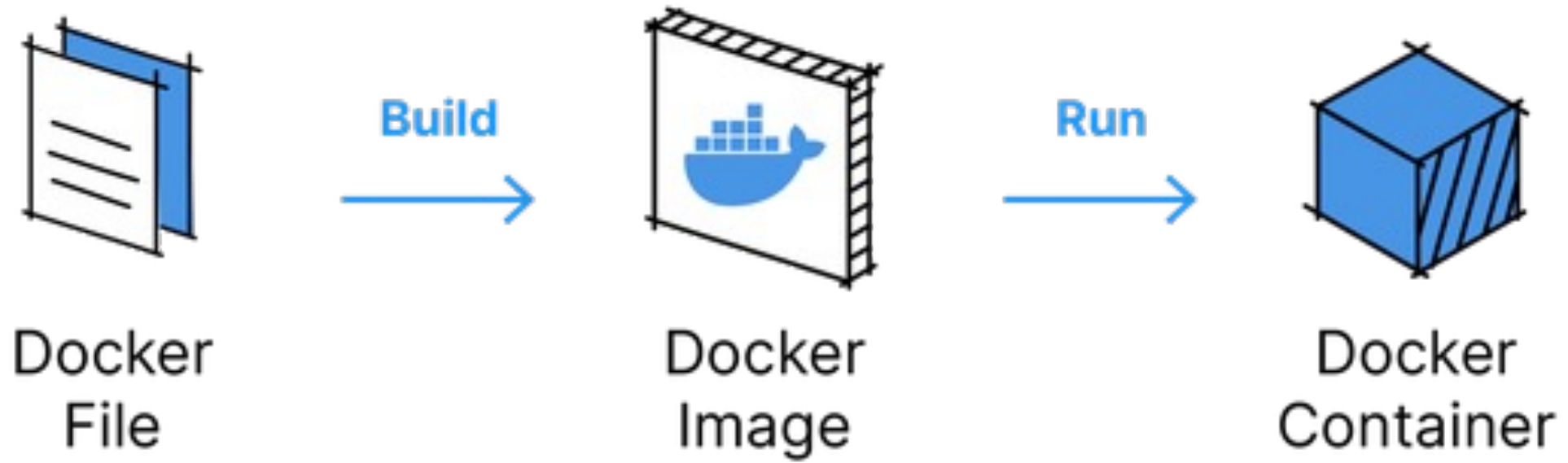
그럼 왜 써요?

개발자가 컨테이너를 빌드, 배포, 실행, 업데이트, 관리할 수 있는 오픈소스

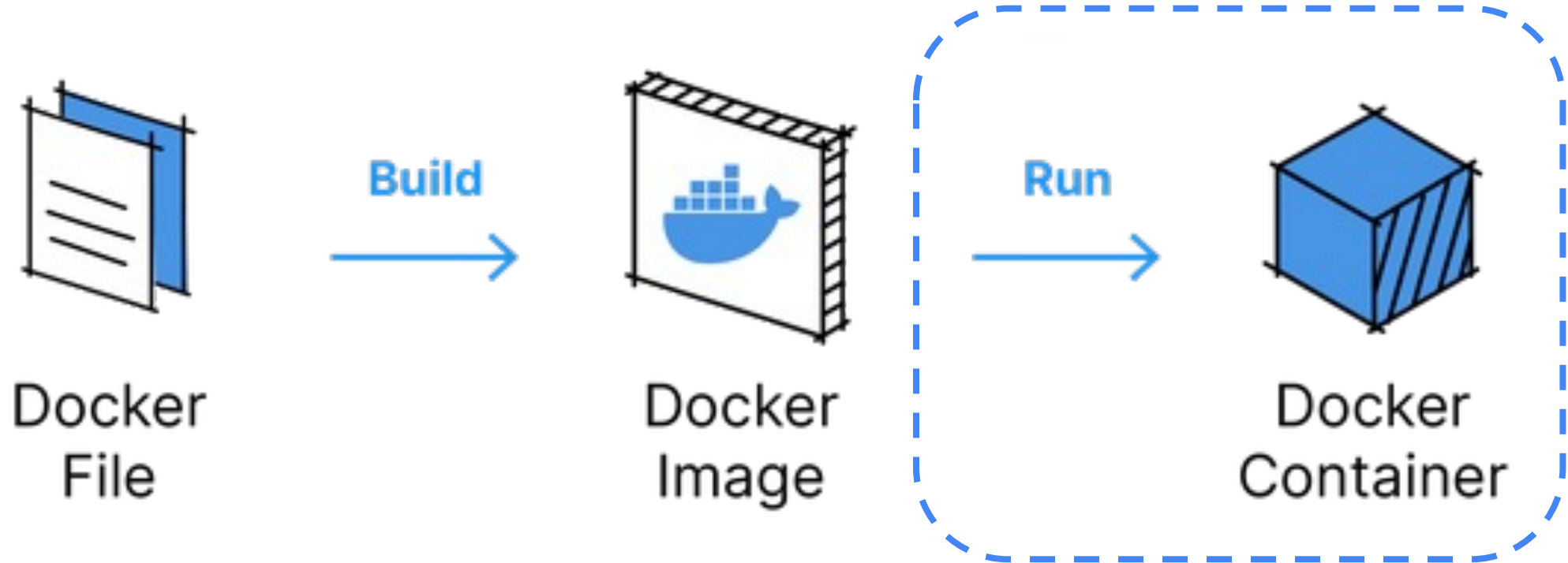
Watcha Backend/Infra Developer의 말

**제대로 익히기는 어렵지만!
편하다!**

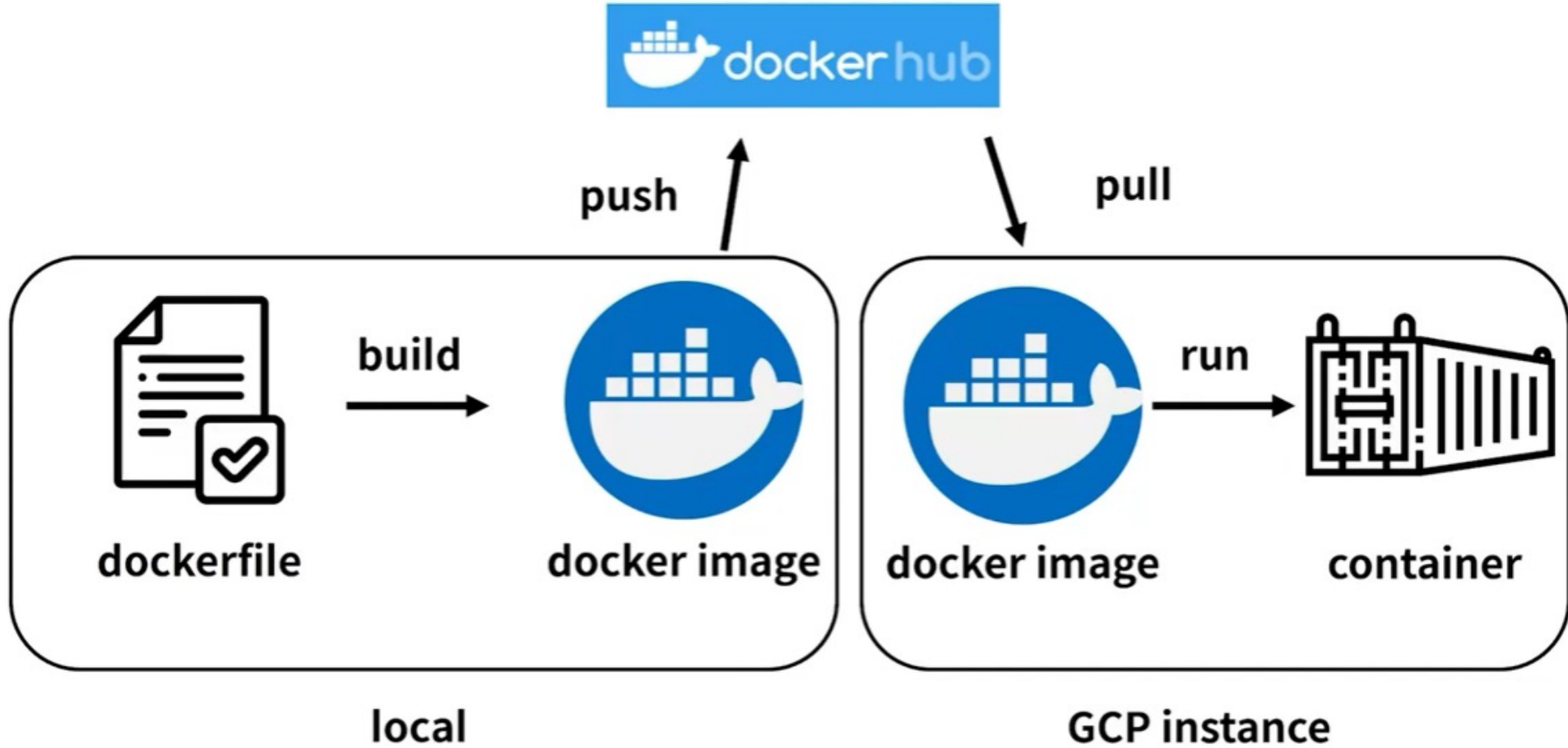
BackEnd

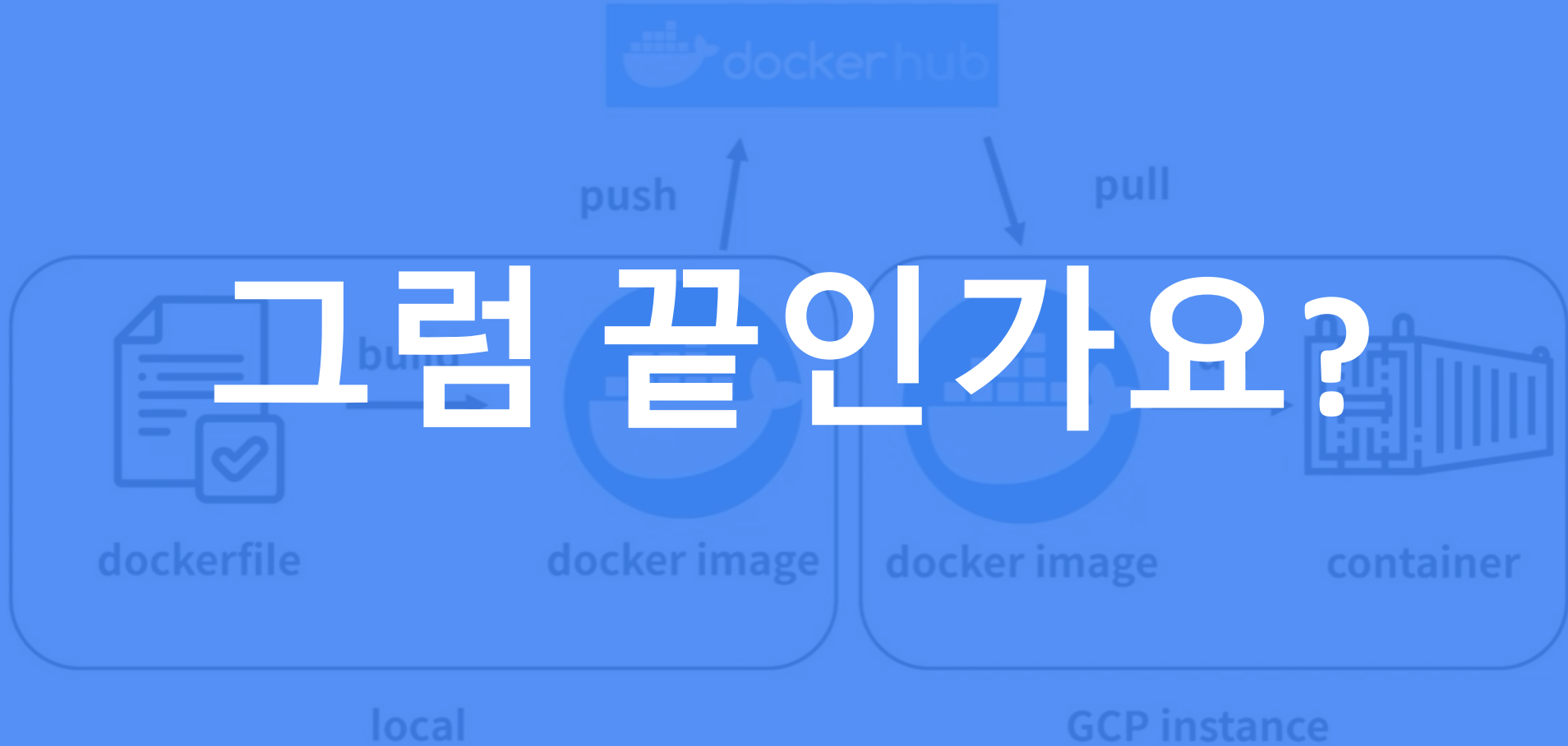


BackEnd

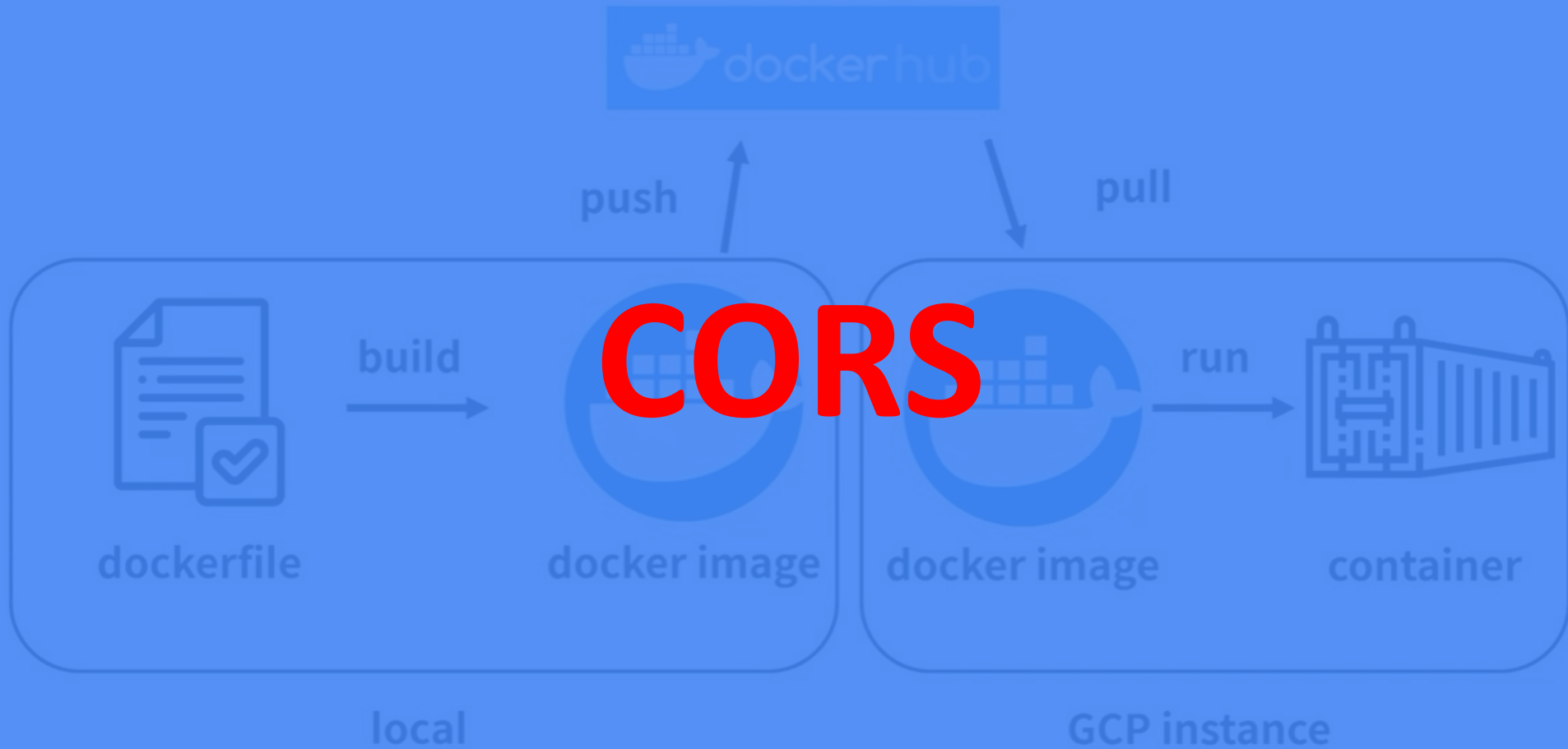


BackEnd





그럼 끝인가요?

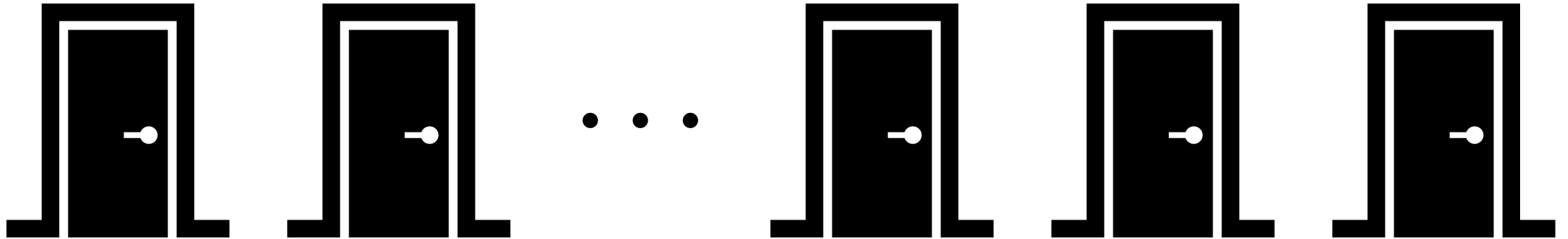


CORS

Google



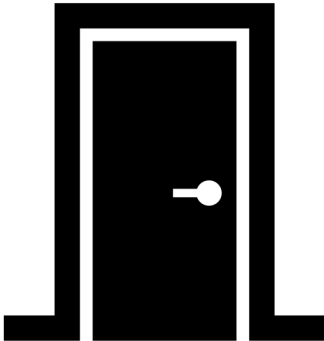
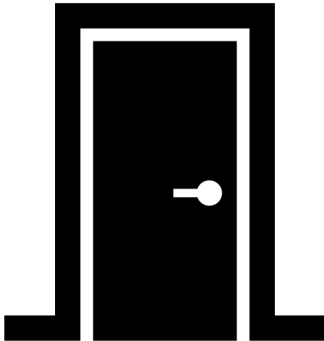
CORS



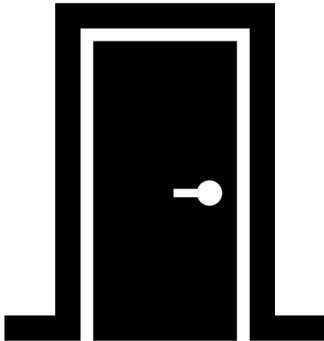
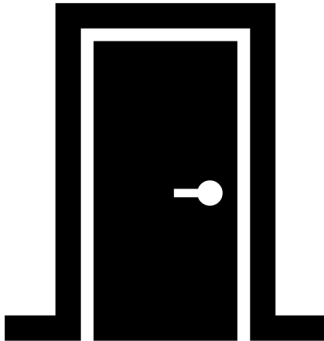
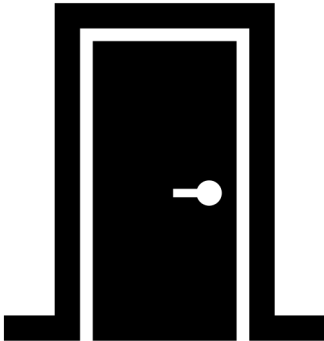
CORS



N:80



...

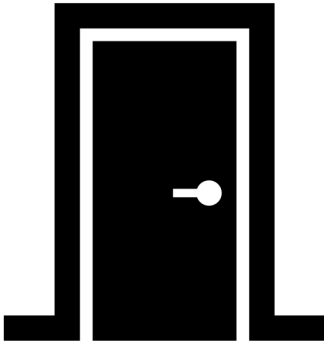
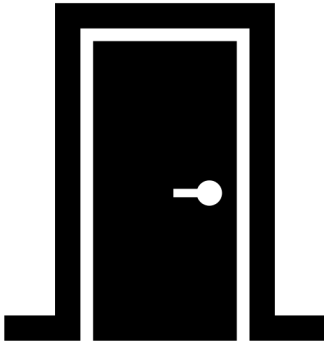


CORS

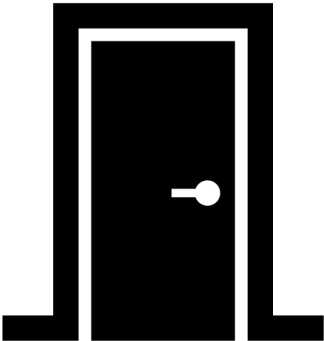
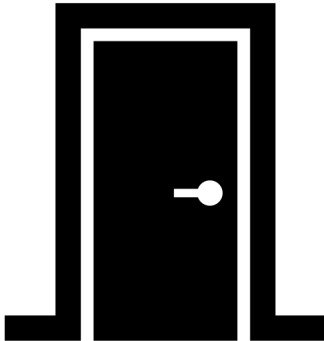
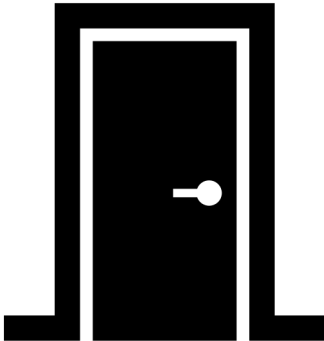


N:80

N:443



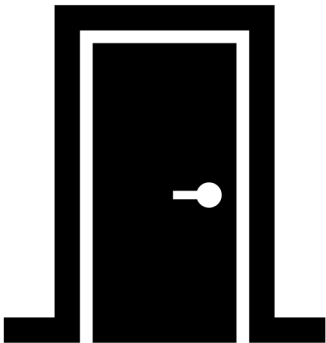
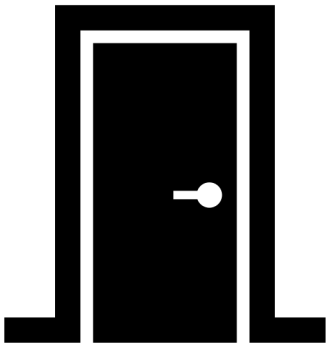
...



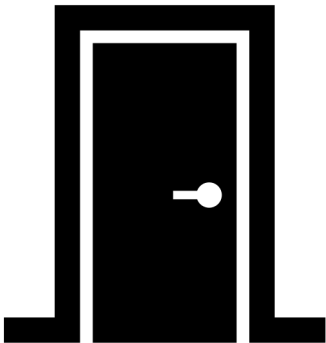
CORS



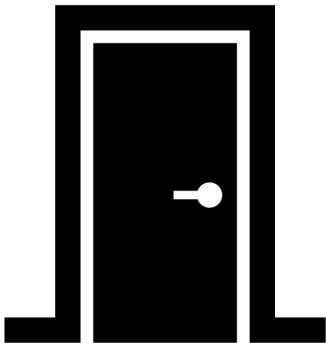
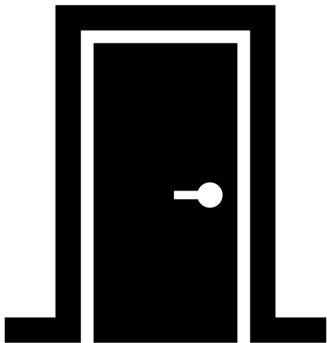
N:80



...



N:443



Not Equal



CORS란?

Cross-Origin Resource Sharing
교차 출처 자원 공유

CORS

https://localhost:3000

http://localhost:8080

CORS

Origin(출처)이란?

프로토콜

포트

https://localhost:3000

호스트

CORS

https://localhost:3000

http://localhost:8080

CORS

https://localhost:3000

http://localhost:8080

그럼 해결법은?

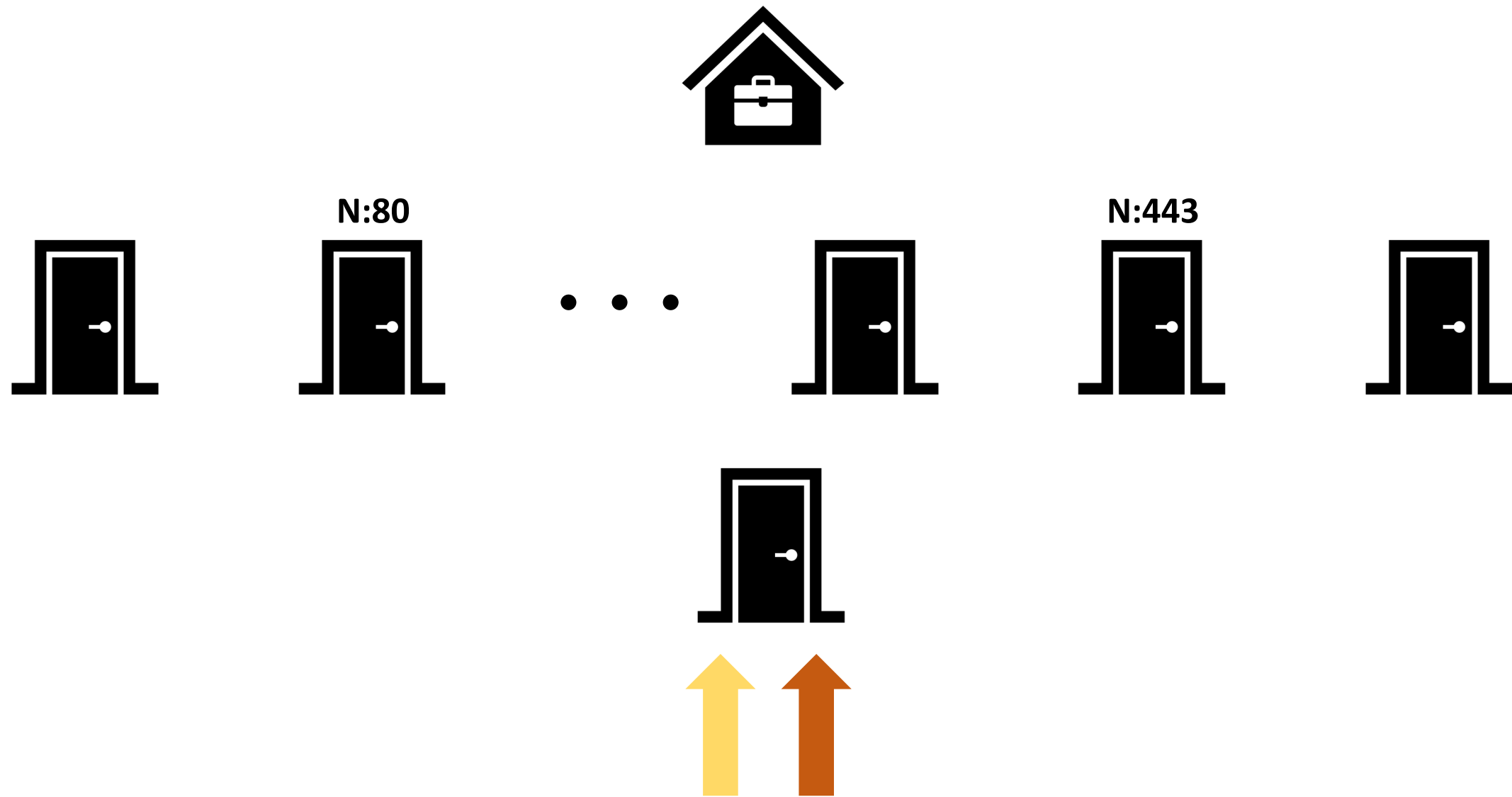
Proxy Server 이용



Header 추가

```
public CorsConfigurationSource corsConfigurationSource() {  
    CorsConfiguration config = new CorsConfiguration();  
  
    config.setAllowCredentials(true);  
    config.setAllowedOrigins(List.of("https://localhost:5173", "http://localhost:5173", httpAddress, httpsAddress));  
    config.setAllowedMethods(List.of("GET", "POST", "PUT", "DELETE", "PATCH", "OPTIONS"));  
    config.setAllowedHeaders(List.of("*"));  
    config.setExposedHeaders(List.of("*"));  
  
    UrlBasedCorsConfigurationSource source = new UrlBasedCorsConfigurationSource();  
    source.registerCorsConfiguration("/*", config);  
  
    return source;  
}
```

Proxy Server



MLOps란?



Google Developer Student Clubs
Dongguk University

감사합니다.

GDSC DGU Core Member Server/Cloud HyungJoon Son