# SOP & CORS

발표자료

## Origin

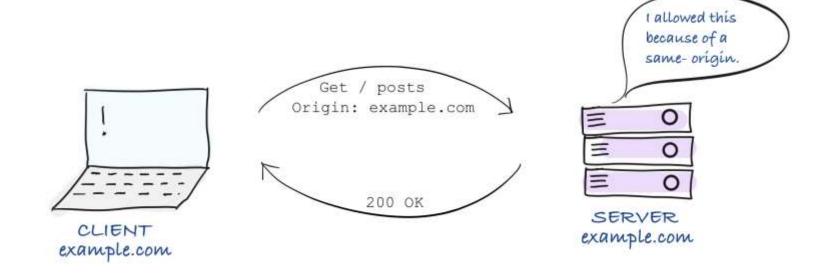
```
https://www.some-domain.com:443/some-path?key1=value1&key2=value2#fooscheme domain name port path query string (parameter) fragment (protocol) (host) (anchor)
```

URL의 구성 요소

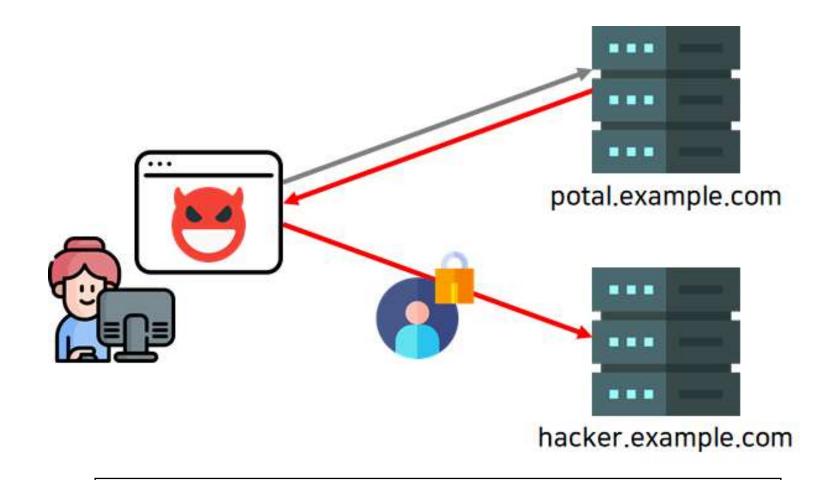
protocol & host & port 동일 => same origin

#### SOP

# Same-Origin Policy

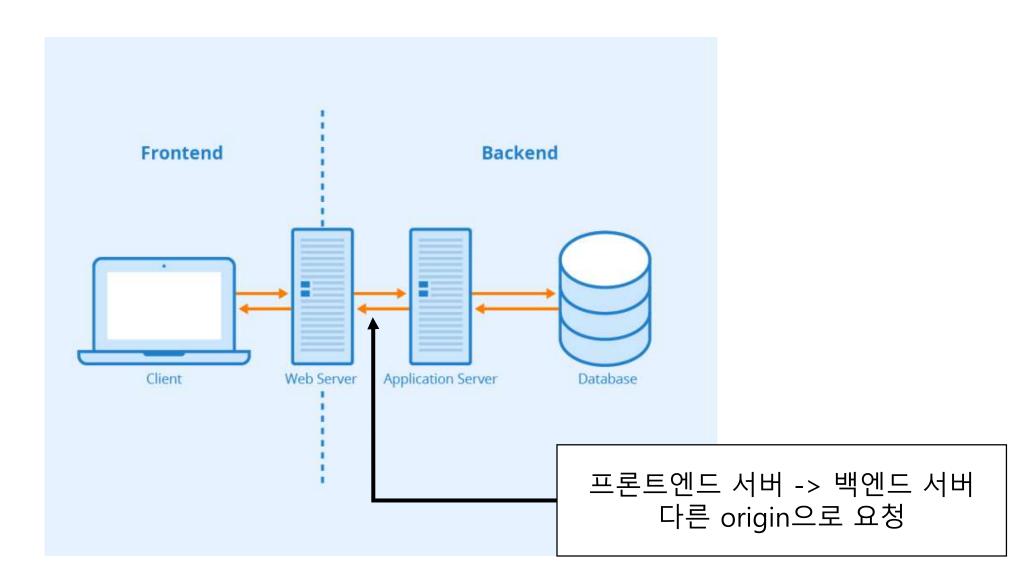


# SOP 없다면



사용자 정보 탈취 & 요청 조작 가능해짐

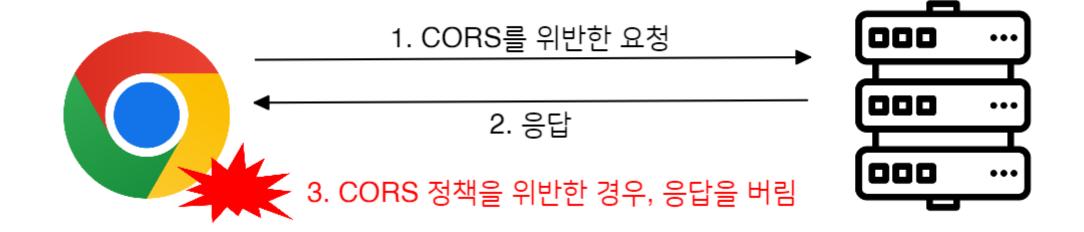
## CORS 등장



#### **CORS**



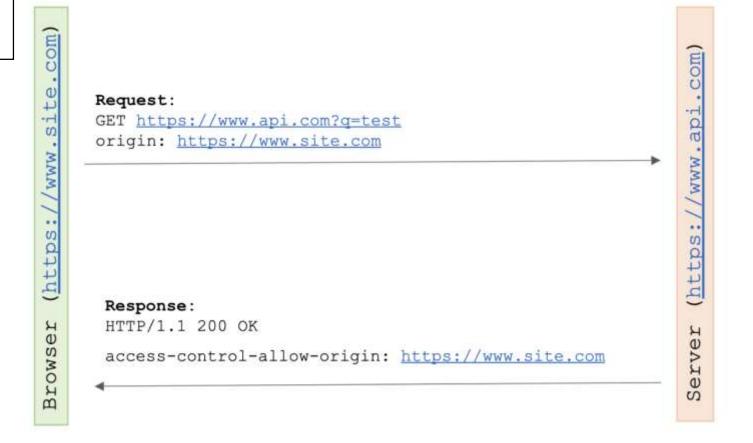
#### **CORS**



CORS는 브라우저에 의해 실행되는 것

## CORS 동작 방식

Simple request



# CORS 동작 방식

Preflight request

```
Pre-flight Request:
   OPTIONS https://www.api.com?q=test
   access-control-request-method: GET
   access-control-request-headers: custom-header,...
   origin: https://www.site.com
COM
    Pre-flight Response:
www.site
    HTTP/1.1 204 No Content
    access-control-allow-origin: https://www.site.com
    access-control-allow-methods: GET
    access-control-allow-headers: custom-header, accept,...
    access-control-max-age:6000
     Request:
     GET https://www.api.com?q=test
     origin: https://www.site.com
Browser
     custom-header: test
     Response:
     HTTP/1.1 200 OK
      access-control-allow-origin: https://www.site.com
```

## CORS 동작 방식

