

Token & JWT

토큰 & JWT

JWT란?

- JSON Web Token의 약자
- Header, Payload, Signature로 이루어져있다.
- Base64로 인코딩 되어있다. (Binary to Text)
- Header는 토큰의 종류와 암호화 알고리즘등 토큰에대한 정보가 들어있다.
- Payload는 발행일, 만료일, 사용자 ID등 사용자 검증에 필요한 정보가 들어있다.
- Signature는 Base64 인코딩된 Header와 Payload를 알고리즘으로 싸인한 값이 들어 있다. 이 값을 기반으로 토큰이 발급된뒤로 조작되었는지 확인할 수 있다.

JWT 예제

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWUiOiIxMjM0NTY3ODkwIiwibmFtZSI6IkpKbnVZGUGRmFjdG9yeSIsImhhbmQiOiJhZG1pbWJ9.3P9bvTbIAvnktNFmQUYM

UzsCOq3UiS2wQ423hlcbHjY

JWT 예제



JWT to JSON

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWUiOiIxMjM0NTY3ODkwIiwibmFtZSI6ImNpdGUiLCJ1dHViIjoicmVnaW9uLmlhaW50eSIsImV4cCI6MTkxOTQwMDAwfQ

Decoding



Encoding



HEADER: ALGORITHM & TOKEN TYPE
<pre>{ "alg": "HS256", "typ": "JWT" }</pre>
PAYLOAD: DATA
<pre>{ "sub": "1234567890", "name": "Code Factory", "iat": 1516239022, "level": "admin" }</pre>
VERIFY SIGNATURE
<pre>HMACSHA256(base64UrlEncode(header) + "." + base64UrlEncode(payload), <input type="text" value="codefactory"/>) <input type="checkbox"/> secret base64 encoded</pre>

JWT to JSON

eyJhbGciOiJIUzI1NiIs
nR5cCI6IkpXVCJ9.eyJ
zdWliOiIxMjM0NTY3O
DkwliwibmFtZSI6Ikp
ZGUgRmFjdG9yeSIsI
mlhdCI6MTUxNjIzOTA
yMiwiG9yZGV2ZWwiOiJh
ZG1pbiJ9.3P9bvTbIAv
nktNFmQUYMUzsCO
q3UiS2wQ423hIcbHjY

Decoding



Encoding



Secret 값



JWT 체험하기



Debugger

Libraries

Introduction

Ask

Crafted by  auth0 

Warning: JWTs are credentials, which can grant access to resources. Be careful where you paste them! We do not record tokens, all validation and debugging is done on the client side.

Algorithm

HS256

Encoded

PASTE A TOKEN HERE

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiIxMjM0NTY3ODkwIiwibmFtZSI6IkhvZGUgRmFjdG9yeSIsIm1hdCI6MTUxNjIzOTAyMiwiYmV2ZWwiOiJhZG1pb2I9.3P9bvTbIAvnktNFmQUYMUzsC0q3UiS2wQ423hIcbHjY

Decoded

EDIT THE PAYLOAD AND SECRET

HEADER: ALGORITHM & TOKEN TYPE

```
{
  "alg": "HS256",
  "typ": "JWT"
}
```

PAYLOAD: DATA

```
{
  "sub": "1234567890",
  "name": "Code Factory",
  "iat": 1516239022,
  "level": "admin"
}
```

VERIFY SIGNATURE

```
HMACSHA256(  
    base64UrlEncode(header) + "." +  
    base64UrlEncode(payload),  
    codefactory  
) ☐ secret base64 encoded
```

) □

- ☐ secret base64 encoded

 Signature Verified

SHARE JWT



Code Factory