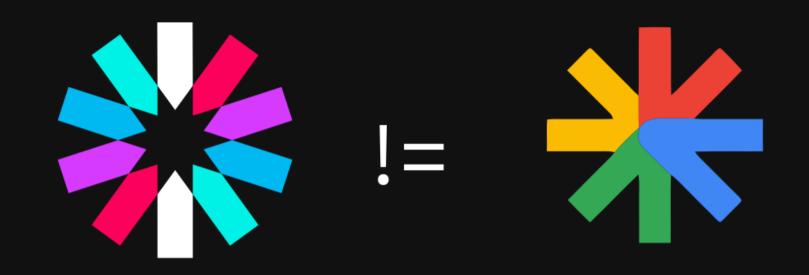


JSON Web Tokens

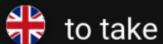


jwt.io by Auth0

Discover by Google

Konjugation "to take"

Infinitive



Simple past



Past participle



JSON Web Tokens are an open, industry standard RFC 7519 method for representing claims securely between two parties.

EyJhbGciOiJIUzl1NiIsInR5cCl6lkpXVCJ9.eyJzdWliOiIxMjM0NTY30Dkwliwibm FtZSl6lkpvaG4gRG9lliwiaWF0IjoxNTE2MjM5MDlyfQ.SflKxwRJSMeKKF2QT4 fwpMeJf36POk6yJV adQssw5c

→ gibberish base64

Base64 is an encoding scheme that represents binary data as an ASCII string.

$$\rightarrow$$
 A-Z a-z 0-9 + / =

$$\rightarrow$$
 3 bytes = 4 chars

UG9seWZvbiB6d2l0c2NoZXJuZCBhw59lbiBNw6R4Y2hlbnMgVsO2Z2VsIFLDvGJlbiwgSm9naHVydCB1bmQgUXVhcms=

EyJhbGciOiJlUzl1NiIsInR5cCl6lkpXVCJ9.eyJzdWliOilxMjM0NTY3ODkwliwibm FtZSl6lkpvaG4gRG9lliwiaWF0ljoxNTE2MjM5MDlyfQ.SflKxwRJSMeKKF2QT4 fwpMeJf36POk6yJV adQssw5c

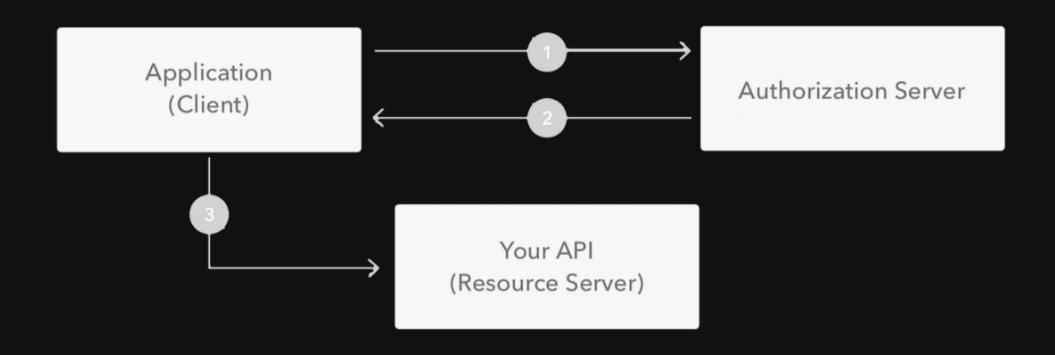
- → gibberish base64
- → header.payload.signature
- → Authorization
- → Signed

EyJhbGciOiJIUzI1NiIsInR5cCl6IkpXVCJ9.eyJzdWliOiIxMjM0NTY30Dkwliwibm FtZSl6IkpvaG4gRG9lliwiaWF0IjoxNTE2MjM5MDlyfQ.SflKxwRJSMeKKF2QT4 fwpMeJf36POk6yJV_adQssw5c

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

HMACSHA256(
    base64UrlEncode(header) + "." +
    base64UrlEncode(payload),
    "iat": 1516239022
    }

"your-256-bit-secret"
)
```



Why this Token

- → JSON is readable
- → JSON is well-known
- → Can be signed asymetrically

Be Careful

1. The "none" algorithm

2. The algorithm

verify(string token, string verificationKey)

Thanks for listening!