

JSON Web Tokens are an open, industry standard **RFC 7519 (https://tools.ietf.org/html/rfc7519)** method for representing claims securely between two parties.

JWT.IO allows you to decode, verify and generate JWT.

LEARN MORE ABOUT JWT (/INTRODUCTION)

Get the JWT Handbook for free! Spread the word and download it now.

DOWNLOAD EBOOK (HTTPS://AUTHO.COM/RESOURCES/EBOOKS/JWT-HANDBOOK?UTM_SOURCE=JWTIO&UTM_MEDIUM=SC&L

Debugger

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 Decoded

eyJhbGci0iJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJuYW11IjoiUGFjaWVudGUgRXh0ZXJubyIsInJvbGUi0iJwYXRpZW50In0.ltZrFfCdg98Inpp436MrrvgnEt9Ej2aZ4-01wL-hb80

(×) sub check

× aud check

exp checknbf check

SHARE JWT		

Libraries for Token Signing/Verification FILTER BY AII

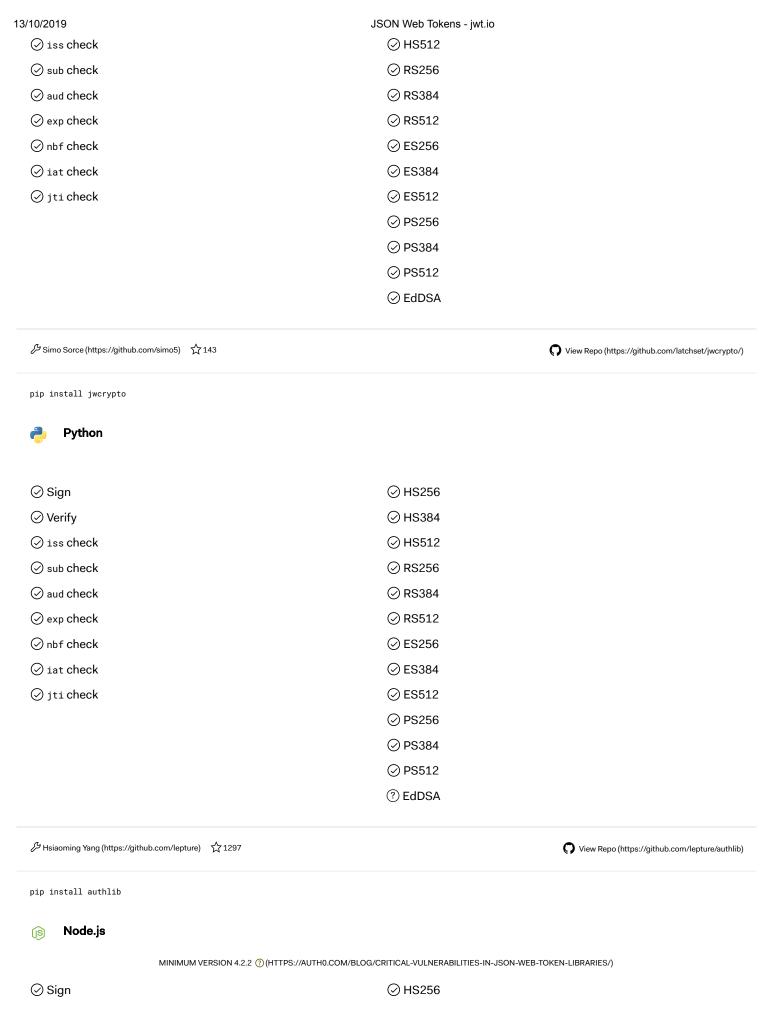
Warning: Critical vulnerabilities in JSON Web Token libraries with asymmetric keys. Learn more (https://auth0.com/blog/critical-vulnerabilities-in-json-web-tokenlibraries/) ▶ .NET Sign ✓ Verify **⊘** HS384 **⊘** HS512 Sub check **⊘** RS256 **⊘** RS384 exp check **⊘** RS512 nbf check **⊘** ES256 **⊘** ES384 jti check **⊘** ES512 **⊘** PS512 ? EdDSA Microsoft (https://www.microsoft.com) \$\frac{1}{2}\$ 572 View Repo (https://github.com/MSOpenTech/azure-activedirectory-identitymodel-extensions-for-dotnet) Install-Package $System. Identity \texttt{Model.Tokens.Jwt (https://www.nuget.org/packages/System.Identity \texttt{Model.Tokens.Jwt/)}} \\$.NET Sign **⊘** HS256 ✓ Verify **⊘** HS384 ⊗ iss check **⊘** HS512

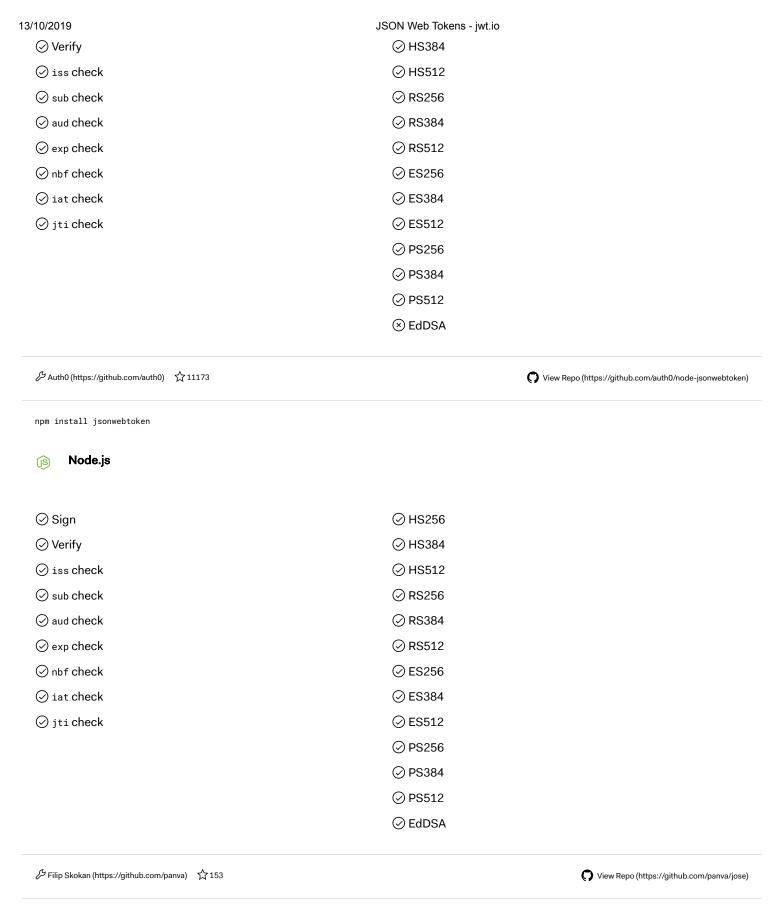
https://jwt.io

⊘ RS256

✓ RS384✓ RS512

⊘ ES256





npm install jose



⊘ nbf check⊘ iat check⊘ jti check	 ○ ES384 ○ ES512 ○ PS256 ○ PS384 ○ PS512 ② EdDSA 		
⊘ nbf check⊘ iat check	○ ES384○ ES512○ PS256○ PS384○ PS512		
⊘ nbf check⊘ iat check	○ ES384○ ES512○ PS256		
⊘ nbf check⊘ iat check	⊘ ES384⊘ ES512		
⊘ nbf check⊘ iat check	⊘ ES384		
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<u> </u>	⊘ ES256		
⊙ exp check			
aud check			
⊙ sub check	⊘ RS256		
⊙ iss check	⊘ HS512		
	⊘ HS384		
⊘ Sign	⊘ HS256		
maven: com.auth0 / java-jwt / 3.3.0			
✓ Auth0 (https://github.com/auth0) 🌣 3119	View Repo (http	os://github.com/auth0/java-j	
	② EdDSA		
	⊗ PS512		
	⊗ PS384		
	⊗ PS256		
⊙ jti check	⊘ ES512		
☑ iat check	⊘ ES384		
⊙ nbf check	⊘ ES256		
⊙ exp check			
② aud check	⊘ RS384		
Sub check Sub che	⊘ RS256		
- ,			
Sign✓ Verify			

maven: org.bitbucket.b_c / jose4j / 0.6.3



Java

maven: io.jsonwebtoken / jjwt / 0.9.0

Java

View Repo (https://github.com/jwtk/jjwt)



- Sign
- ✓ Verify
- \bigcirc sub check

- ⊘ nbf check
- \bigcirc iat check
- **⊘** HS256
- **⊘** HS384
- **⊘** HS512
- **⊘** RS256
- **⊘** RS384
- **⊘** RS512
- **⊘** ES256
- **⊘** ES384
- **⊘** ES512
- **⊗** PS256
- **⊗** PS384
- **⊗** PS512
- ? EdDSA

FusionAuth (https://github.com/fusionauth) 🗘 23

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View Repo (https://github.com/fusionauth/fusionauth-jwt)

maven: io.fusionauth / fusionauth-jwt / 3.1.0



Java

✓ exp check
 ✓ RS512
 ✓ nbf check
 ✓ ES256

 \bigcirc iat check \bigcirc ES384

13/10/2019	JSON Web Tokens - jwt.io	
○ Verify		
⊗ iss check		
⊗ sub check		
⊗ aud check	⊘ RS384	
⊗ exp check	⊘ RS512	
⊗ nbf check	⊘ ES256	
⊗ iat check	⊘ ES384	
⊗ jti check	⊘ ES512	
	② EdDSA	
		View Repo (https://github.com/dvsekhvalnov/jose2go)
Go		
	⊘ HS256	
∨ Verify		
⊘ iss check		
Sub check	⊘ RS256	
	⊘ RS384	
	⊘ RS512	
⊘ nbf check	⊘ ES256	
⊘ iat check	⊘ ES384	
⊘ jti check	⊘ ES512	
	⊘ PS256	
	⊘ PS384	
	⊘ PS512	
	② EdDSA	
グ SermoDigital (https://github.com/SermoDigital/jose) な793		View Repo (https://github.com/SermoDigital/jose)

 $go \ get \ github.com/SermoDigital/jose \ (https://godoc.org/github.com/SermoDigital/jose)\\$



Go

13/10/2019	JSON Web Tokens - jwt.io		
		⊘ HS256	
∨ Verify	⊗ HS384		
⊗ iss check			
⊗ sub check	⊗ RS256		
⊗ aud check	⊗ RS384		
	⊗ RS512		
	⊗ ES256		
	⊗ ES384		
⊗ jti check	⊗ ES512		
	⊗ PS256		
	⊗ PS384		
	⊗ PS512		
	② EdDSA		
グ robbert229 (https://github.com/robbert229) な75		View Repo (https://github.com/robbert229/jwt)	
Go			
⊘ Sign	⊘ HS256		
∨ Verify			
⊗ iss check			
⊗ sub check	⊘ RS256		
⊗ aud check			
⊗ exp check	⊘ RS512		
⊗ nbf check			
⊗ iat check	⊘ ES384		
⊗ jti check	⊘ ES512		
	⊘ PS384		
	⊘ PS512		
	○ PS512② EdDSA		

 $go \ get \ github.com/square/go-jose \ (https://godoc.org/github.com/square/go-jose)$



Go

 ∀ Verify **⊘** HS384

⊗ iss check **⊘** HS512 **⊘** RS256 ⊗ sub check

× aud check **⊘** RS384

⊘ RS512 ⊗ exp check

⊘ ES256 ⊗ nbf check ⊗ iat check **⊘** ES384

⊘ ES512 ⊗ jti check

⊘ PS256 **⊘** PS384

⊘ PS512

? EdDSA

View Repo (https://github.com/lestrrat-go/jwx)

go get github.com/lestrrat-go/jwx (https://godoc.org/github.com/lestrrat-go/jwx)



Go

 Sign **⊘** HS256

 ✓ Verify **⊘** HS384

⊗ iss check **⊘** HS512

× sub check **⊘** RS256

(×) aud check **⊘** RS512

⊘ nbf check **⊘** ES256

⊗ iat check **⊘** ES384

⊘ ES512

? PS256

? PS384

? PS512

② EdDSA

View Repo (https://github.com/adam-hanna/jwt-auth)

go get github.com/adam-hanna/jwt-auth (https://godoc.org/github.com/adam-hanna/jwt-auth)

Go



- \bigcirc Sign
- ∀ Verify
- \otimes iss check
- ⊗ sub check
- ⊗ aud check
- \bigcirc exp check
- ⊗ nbf check
- \otimes iat check
- ⊗ jti check
- **⊘** HS256
- **⊗** HS384
- **⊗** HS512
- **⊗** RS256
- **⊗** RS384
- **⊗** RS512
- **⊗** ES256
- **⊗** ES384
- **⊗** ES512
- **⊗** PS256
- **⊗** PS384
- ? EdDSA

€ nickvellios (https://github.com/nickvellios) 🗘 4

View Repo (https://github.com/nickvellios/gojwt)

go get github.com/nickvellios/gojwt (https://godoc.org/github.com/nickvellios/gojwt)



Go

 Sign **⊘** HS256 ✓ Verify **⊘** HS384 \bigcirc iss check **⊘** HS512

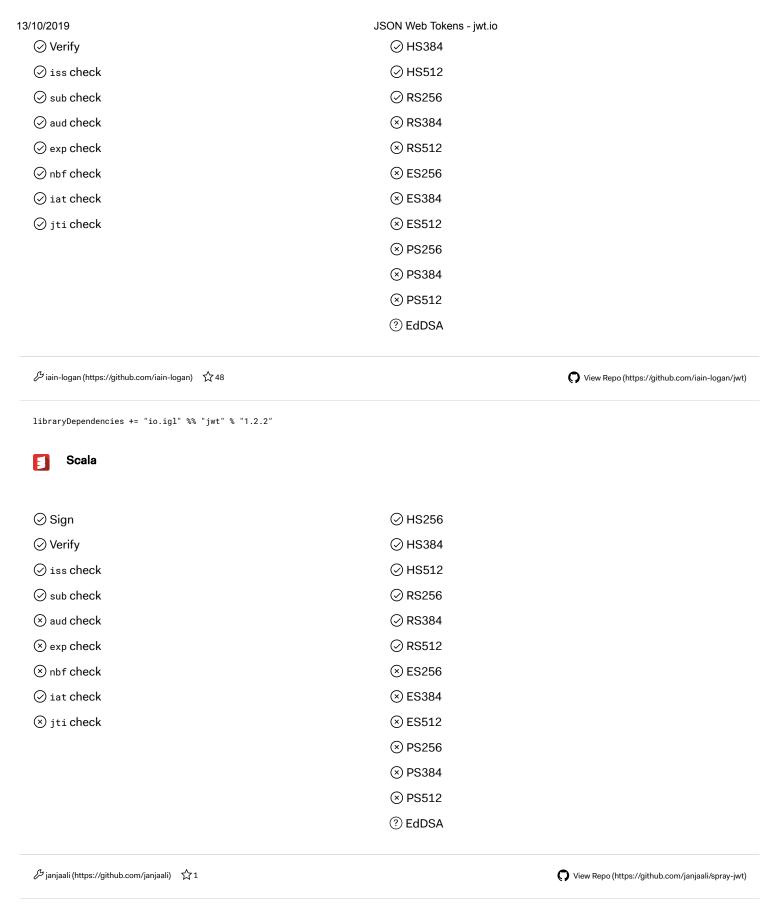
 Sub check **⊘** RS256

 \bigcirc aud check **⊘** RS384

⊘ RS512

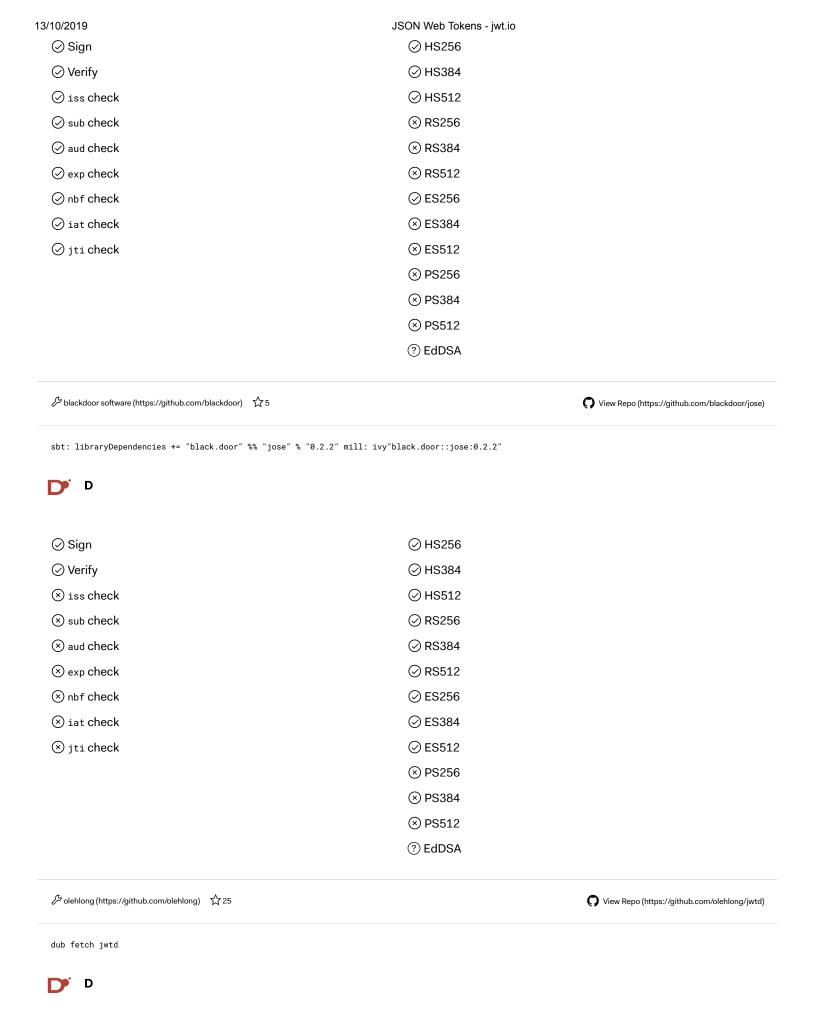
⊘ nbf check **⊘** ES256

⊘ ES384



libraryDependencies += "com.github.janjaali" %% "spray-jwt" % "1.0.0"

Scala



lein: [funcool/buddy "2.0.0"]

Objective-C



- Sign
- ∀ Verify
- \bigcirc iss check
- ⊘ sub check

- ⊘ nbf check
- \bigcirc iat check
- **⊘** HS256
- **⊘** HS384
- **⊘** HS512
- **⊘** RS256
- **⊘** RS384
- **⊘** RS512
- **⊘** ES256
- **⊘** ES384
- **⊘** ES512
- **⊗** PS256
- **⊗** PS384
- **⊗** PS512
- ? EdDSA

yourkarma & lolgear

 ☆ 278

View Repo (https://github.com/yourkarma/JWT)

pod 'JWT'



Swift

Sign

✓ Verify

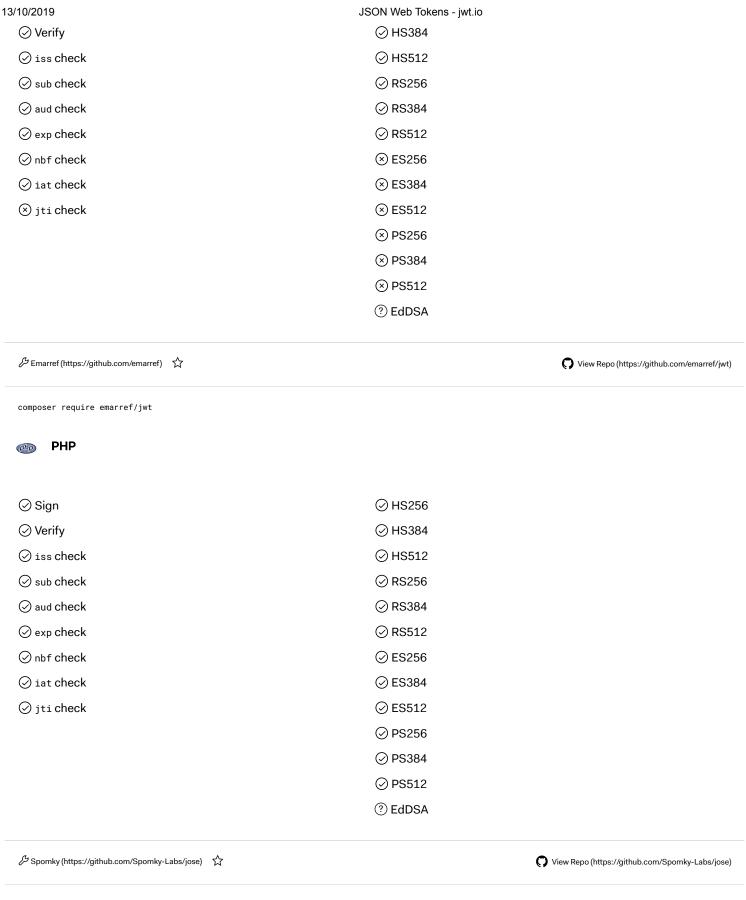
⊗ sub check

 \bigcirc aud check

⊘ nbf check

 \bigcirc iat check

- **⊘** HS256
- **⊘** HS384
- **⊘** HS512
- **⊗** RS256
- **⊗** RS384
- **⊗** RS512
- **⊗** ES256
- **⊗** ES384



composer require spomky-labs/jose





composer require lindelius/php-jwt



- Sign
- ∀ Verify
- \bigcirc iss check
- ⊘ sub check

- ⊘ nbf check
- \bigcirc iat check
- jti check
- **⊘** HS256
- **⊘** HS384
- **⊘** HS512
- **⊘** RS256
- **⊘** RS384
- **⊘** RS512
- **⊘** ES256
- **⊘** ES384
- **⊘** ES512
- **⊗** PS256
- **⊗** PS384
- ? EdDSA

& ZiHang Gao (https://github.com/cdoco)



View Repo (https://github.com/cdoco/php-jwt)

git clone https://github.com/cdoco/php-jwt



PHP

Sign

✓ Verify

⊗ sub check

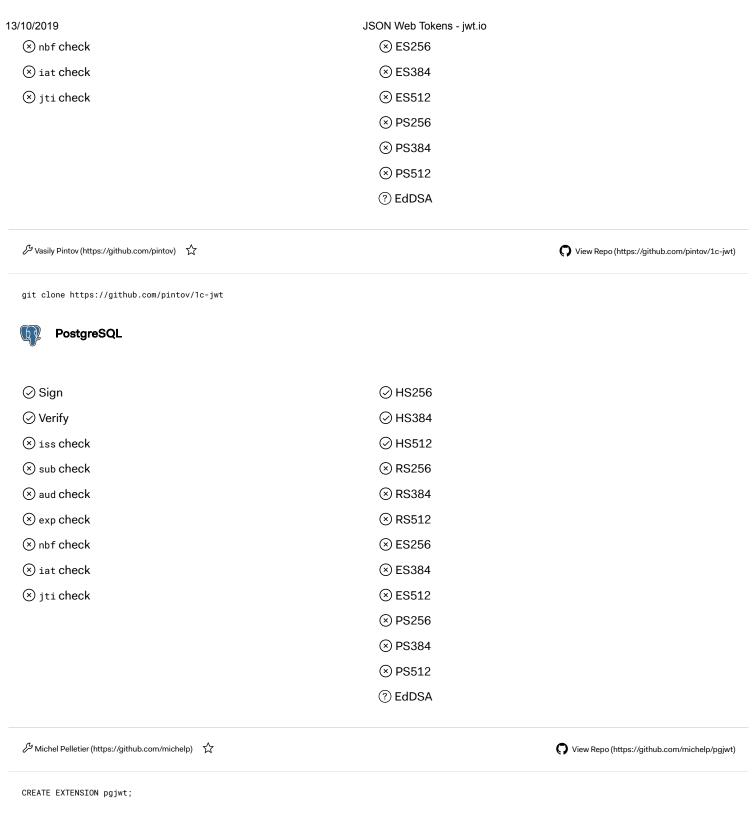
igotimes aud check

⊘ nbf check

 \bigcirc iat check

- **⊘** HS256
- **⊘** HS384
- **⊘** HS512
- **⊘** RS256
- **⊘** RS384
- **⊘** RS512
- **⊗** ES256
- **⊗** ES384

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Badges

** VIEW ON JWT.IO (http://jwt.io/img/badge.svg)

http:/.... \(\frac{1}{2}\) (http://jwt.io/img/badge.svg)



https://jwt.io 46/49

 $\frac{\downarrow}{}$ (http://jwt.io/img/badge-compatible.svg)

Logotype



 $\texttt{http://j...} \, \underline{\psi} \, (\text{http://jwt.io/img/icon.svg})$



 $_{\text{h...}} \underline{\ } \underline{\ }$ (http://jwt.io/img/logo-asset.svg)

Store



BUY T-SHIRT (HTTP://SWAG.AUTH0.COM/)



JWT.io is brought to you by Auth0 (https://auth0.com/signup)

Securely implement authentication with JWTs using Auth0 on any stack and any device in less than 10 minutes.

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CREATE FREE ACCOUNT (HTTPS://AUTH0.COM/SIGNUP)

TOKENS CREATED

8 2 2 6 4 1 2 5 2 1 1

Supported by 🛟 (https://auth0.com/)

Missing something?

Send a Pull Request (https://github.com/jsonwebtoken/jsonwebtoken.github.io/tree/master/views) - License (https://github.com/jsonwebtoken/jsonwebtoken.github.io/blob/master/LICENSE.txt)

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