

React Native Application Security

Isumi Batam, Jan 2020



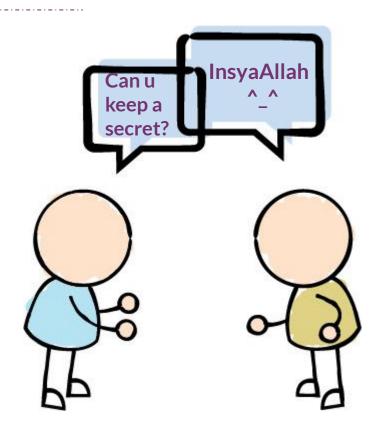




- 1. Intro Application Security
- 2. Library
- 3. Using Token

GOALS

1. Intro





Application Security | Concepts

Authentication

Refers to verify **who you are**, so you need to use username and password for authentication.

Authorization

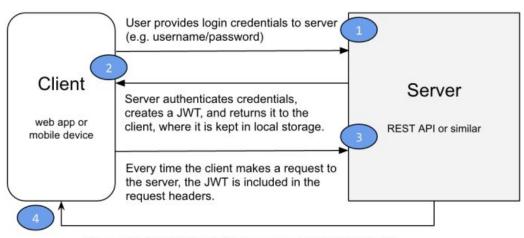
Refers to *what you can do*, for example access, edit or delete permissions to some documents, and this happens after verification passes.

Encryption

Security method where information is encoded and can only be accessed or decrypted by a user with the correct encryption key.

Authentication

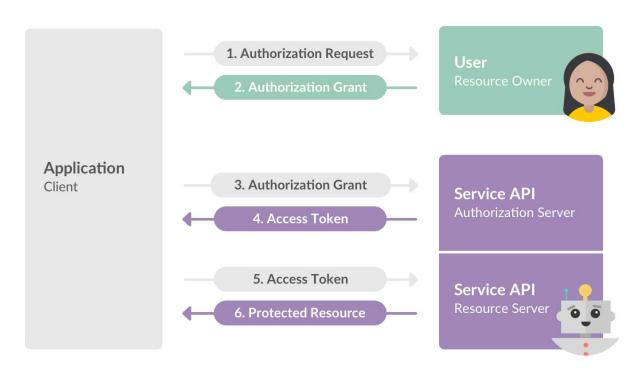




The server decodes the JWT on each request to ensure it is valid. The request is authorized based on the content of the token.



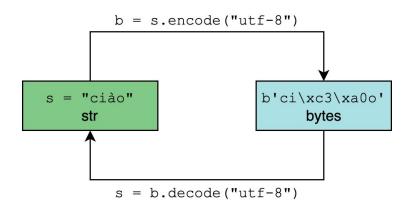
Authorization

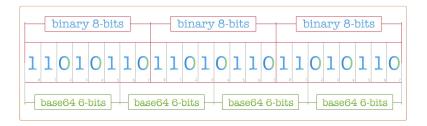




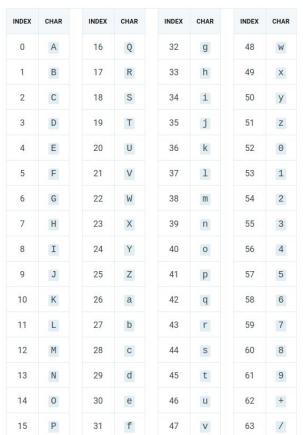
Encryption

• Encode - Decode





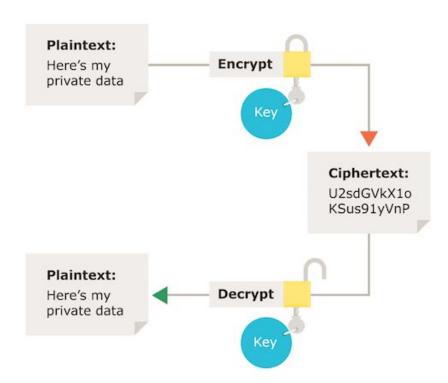
Base64 Character Index Table:







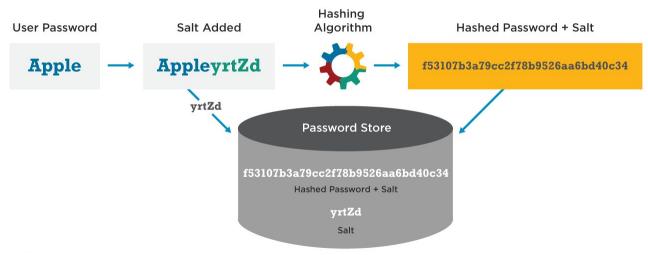
Encrypt - Decrypt





Hashing

Password Hash Salting





2. Library

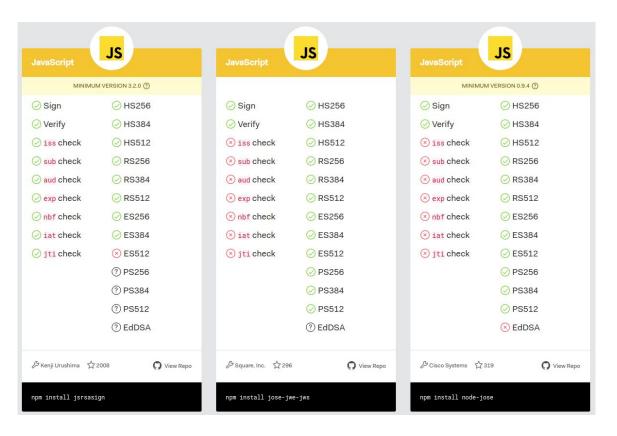


JSON Web Tokens are an open, industry standard RFC 7519 method for representing claims securely between two parties.

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









3. Using Token

AsyncStorage

Simple, unencrypted, asynchronous, persistent, key-value storage system that is global to the app.



For more details:

https://www.npmjs.com/package/@react-native-community/async-storage



Exercise

Implementation AsyncStorage in your app. ;)





