JWT Structure Explained

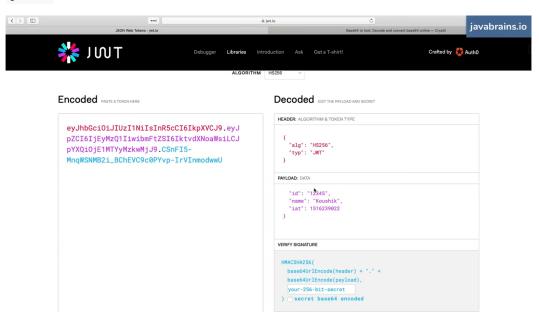
• 3 parts (separated by '.'): Header, Payload, Signature



Sample JWT

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ zdWIiOiIxMjMONTY3ODkwIiwibmFtZSI6IkpvaG4 gRG9lIiwiaWF0IjoxNTE2MjM5MDIyfQ.SflKxwRJ SMeKKF2QT4fwpMeJf36POk6yJV_adQssw5c

jwt.io

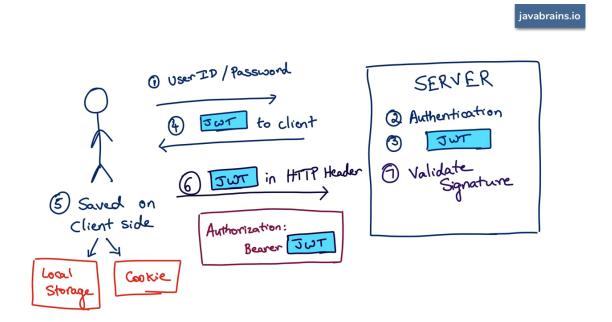


- Payload in JWT is a base64 encoding
- Header contains the type of token and the algorithm used to verify the signature
- · base64 thing is only for convenience
- The signature is possible to be computed only by the server which issued it

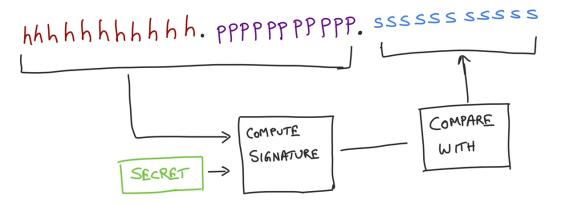
- The signature is used (by the server) to verify if any change has been made to the token (payload?).
- signature = f(header, payload, secret), where f is a cryptographic hash function (the algo specified in the header) and the secret is only available to the server

JWT is for authorization

Overall flow



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Issues

- Do not send confidential issues in payload (anyone can decode)
- What if someone gets hold of the full JWT itself?

To ensure the latter doesn't happen, use https or OAuth

• Disabling JWTs (in case of session IDs, it is just enough to terminate the session)

