



Understanding JWT





Why use JSON Web Token (JWT)

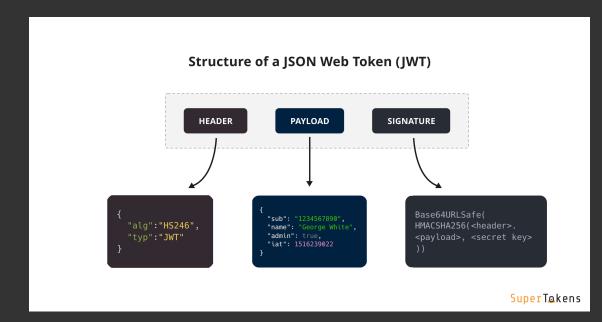
- 1. Stateless
- 2. Scalable in Distributed Systems
- 3. Cross domain authentication
- 4. Ideal for Decentralized systems and microservices
- 5. Highly secure



JSON Web Token (JWT)

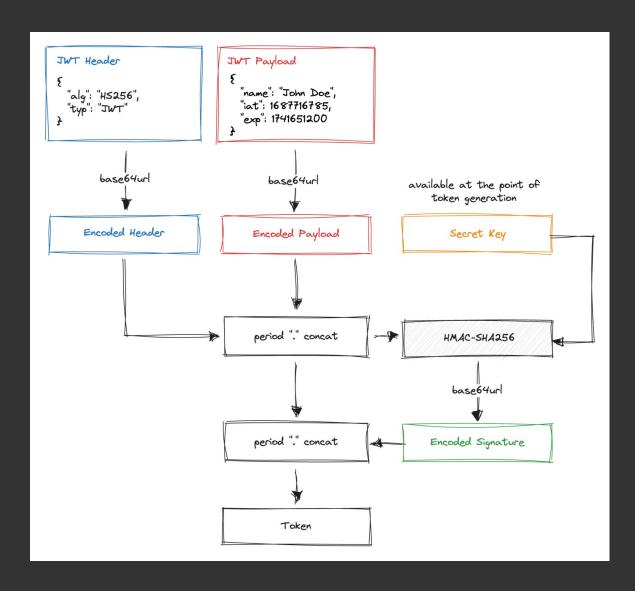
JWT is a compact, URL-safe means of representing claims to be transferred between two parties.

JWT is often used to transmit non-sensitive data that doesn't require confidentiality but still needs integrity and authenticity. This includes user identifiers, roles, permissions, and other claims necessary for making access control decisions.





JWT Creation

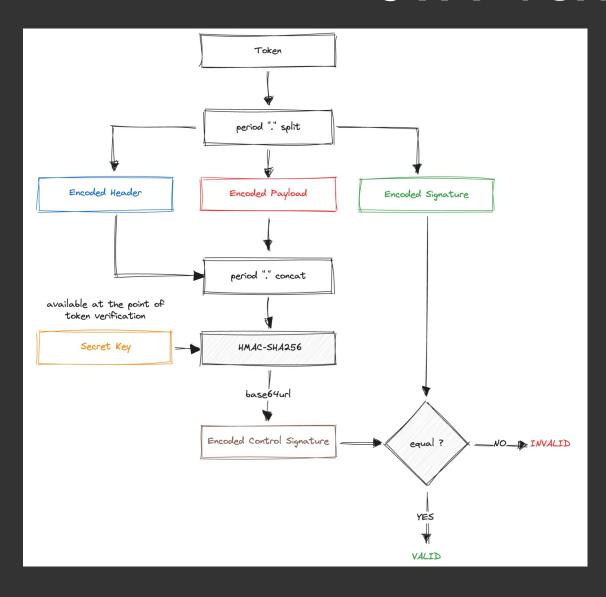


Sample Token:

eyJhbGciOiJIUzl1NiJ9.eyJzdWliOil0NSIslnJvbGVzljpbllJJREVSII0sImlhdCl6MTcyMTU2NzUxOSwiZXhwljoxNzIxNTgxOTE5fQ.plEiLEboraXMhJrm8ckRLpoYSWC6n9mY3XNICpLFE4I



JWT Verification

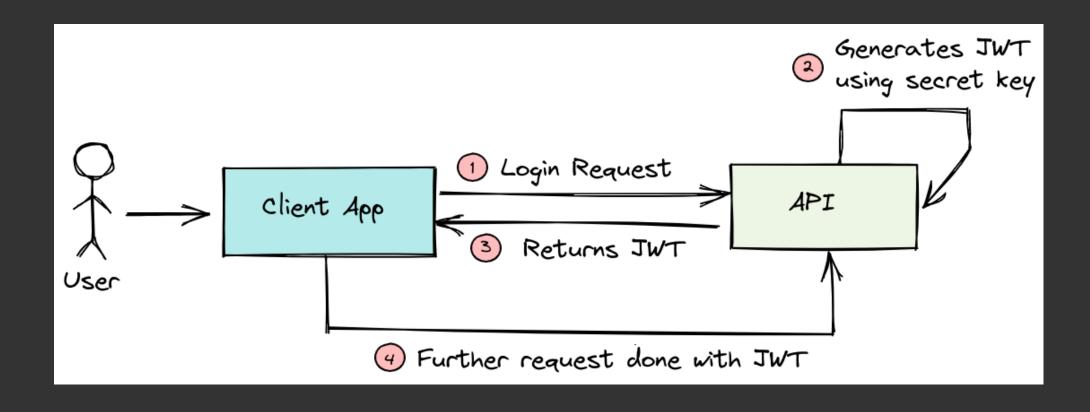


Sample Token:

eyJhbGciOiJIUzl1NiJ9.eyJzdWliOil0NSIslnJvbGVzljpbllJJREVSII0sImlhdCl6MTcyMTU2NzUxOSwiZXhwljoxNzIxNTgxOTE5fQ.plEiLEboraXMhJrm8ckRLpoYSWC6n9mY3XNICpLFE4I



Using JWT For Authentication





JWT Dependencies

```
<dependency>
   <groupId>io.jsonwebtoken</groupId>
   <artifactId>jjwt-api</artifactId>
   <version>0.12.6
</dependency>
<dependency>
   <groupId>io.jsonwebtoken</groupId>
   <artifactId>jjwt-impl</artifactId>
   <version>0.12.6
   <scope>runtime</scope>
</dependency>
<dependency>
   <groupId>io.jsonwebtoken</groupId>
   <artifactId>jjwt-jackson</artifactId>
   <version>0.12.6
   <scope>runtime</scope>
</dependency>
```

