

# W13-P1: investigate jwt token using jwt.io

The screenshot shows the jwt.io website interface. The 'Encoded' section contains a JWT token: `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpc3MiOiJzdXBhYmFzZSIsInJ1ZiI6Ind1bHB2bmlmcm1ldnR0c25wb2VnIiwicm9sZSI6ImFub24iLCJpYXQiOiJlZ2NzcmZwNTgsImV4cCI6MTk5MjY0NjA1OH0.1DudwcJePBR2am1auwGH3p2yisWRTJ1DjXeyReBQpEo`. The 'Decoded' section shows the token's structure:

```
HEADER: ALGORITHM & TOKEN TYPE
{
  "alg": "HS256",
  "typ": "JWT"
}

PAYLOAD: DATA
{
  "ref": "wulpynyfrkevttanpoeg",
  "role": "anon",
  "iat": 1677078056,
  "exp": 1992646858
}

VERIFY SIGNATURE
HMACSHA256(
  base64UrlEncode(header) + ".",
  base64UrlEncode("your-256-bit-secretL7g13R8Lzn8huTgLoesSL")
) secret base64 encoded
```

Below the decoded section, a blue button labeled 'SHARE JWT' is visible. A red box highlights the 'role' field in the payload, which is set to 'anon'.

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HEADER: ALGORITHM & TOKEN TYPE
{
  "alg": "HS256",
  "typ": "JWT"
}

PAYLOAD: DATA
{
  "ref": "wulpynyfrkevttanpoeg",
  "role": "service_role",
  "iat": 1677078056,
  "exp": 1992646858
}

VERIFY SIGNATURE
HMACSHA256(
  base64UrlEncode(header) + ".",
  base64UrlEncode("L7g13R8Lzn8huTgLoesSL")
) secret base64 encoded
```

Below the decoded section, a blue button labeled 'SHARE JWT' is visible. A red box highlights the 'role' field in the payload, which is set to 'service\_role'.