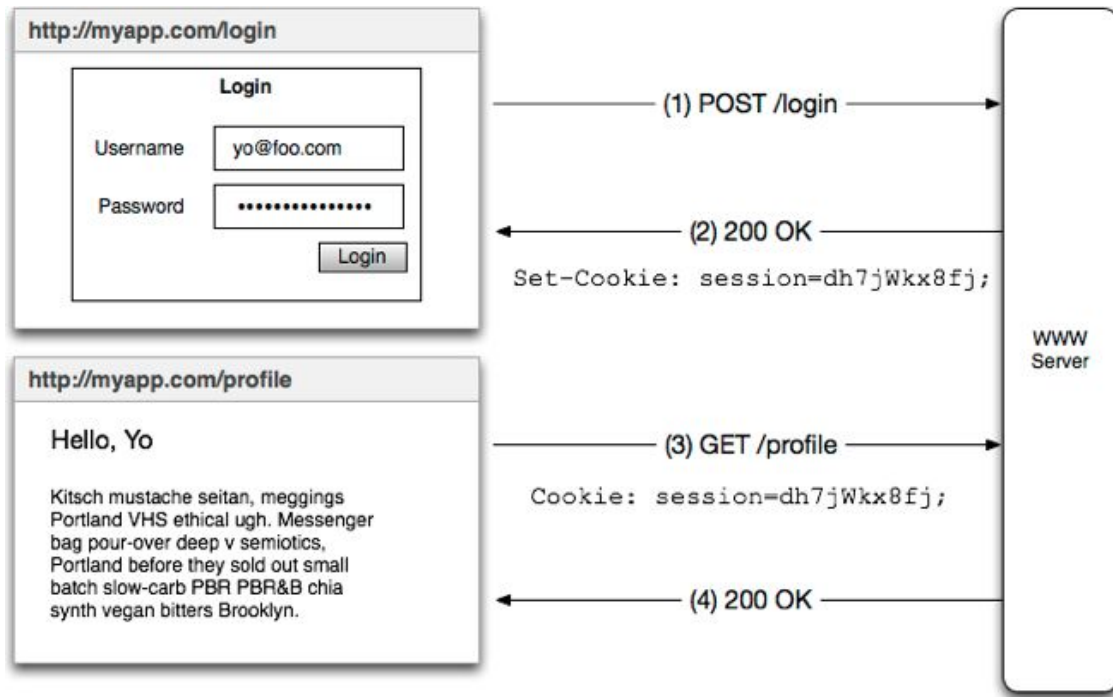


# JWT



JSON Web Tokens

# Classic authentication with sessions



- They're opaque and have no meaning (they're just pointers)
- Database heavy: session ID lookup on every request
- Cookies need to be secured to prevent session hijacking

# Definitions

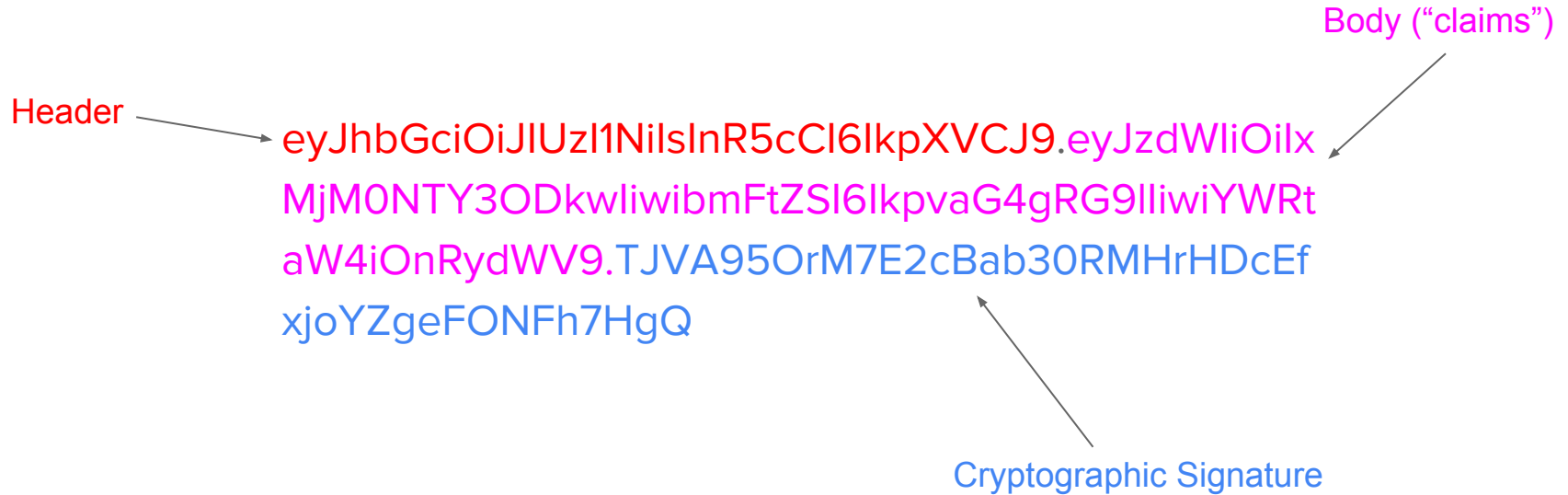
**Authentication** is proving who you are.

**Authorization** is being granted access to resources.

**Tokens** are used to persist authentication and get authorization.

**JWT** is a token format.

# Example



# Issuing JWTs

1. User has to present credentials to get a token (password, api keys, etc.)
2. Tokens are issued by your server, and signed with a secret key that is private
3. The client stores the tokens, and uses them to authenticate requests

# JWT Creation

```
header = {  
    "alg": "HS256"  
}  
  
claims = {  
    "isAdmin": true,  
    "userName": "Arik"  
}  
  
signed = HMACSHA256(  
    base64UrlEncode(header) + "." + base64UrlEncode(claims), "secret"  
)  
  
token = base64UrlEncode(header) + "." + base64UrlEncode(claims) + "." + signed
```

# Sending

**POST** http://mywebsite.com/secretPage

Headers:

**Authorization: BEARER** eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.

eyJzdWliOiIxMjM0NTY3ODkwIiwibmFtZSI6IkpvaG4gRG9lIiwiaWF0IjOnRydWV.

TJVA95OrM7E2cBab30RMHrHDcEfxjoYZgeFONFh7HgQ