

# Web Authentication

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# Several Methods

- **Basic Authentication**

Stateless authentication

- **Local Authentication**

Stateful authentication

- **OAuth 2**

Third-party authentication

# Basic Authentication

## Standard : RFC 2617

- ➔ Passwords are sent in **clear** (Base64 encoding) in **the headers** "authorization"

```
$ curl -u login:password http://url
```

```
$ curl http://admin:password@url
```

# Local Authentication



# The simple recipe for user authentication

1. **Ask the user for a login and password** and send it to the server (HTTP POST request)
2. **Verify the login/password** based on information stored on the server (usually in the database)
3. **Start a session** if the login password matches i.e. once the user has been successfully authenticated
4. **Grant access to resources** according to the session

# Third-party Authentication

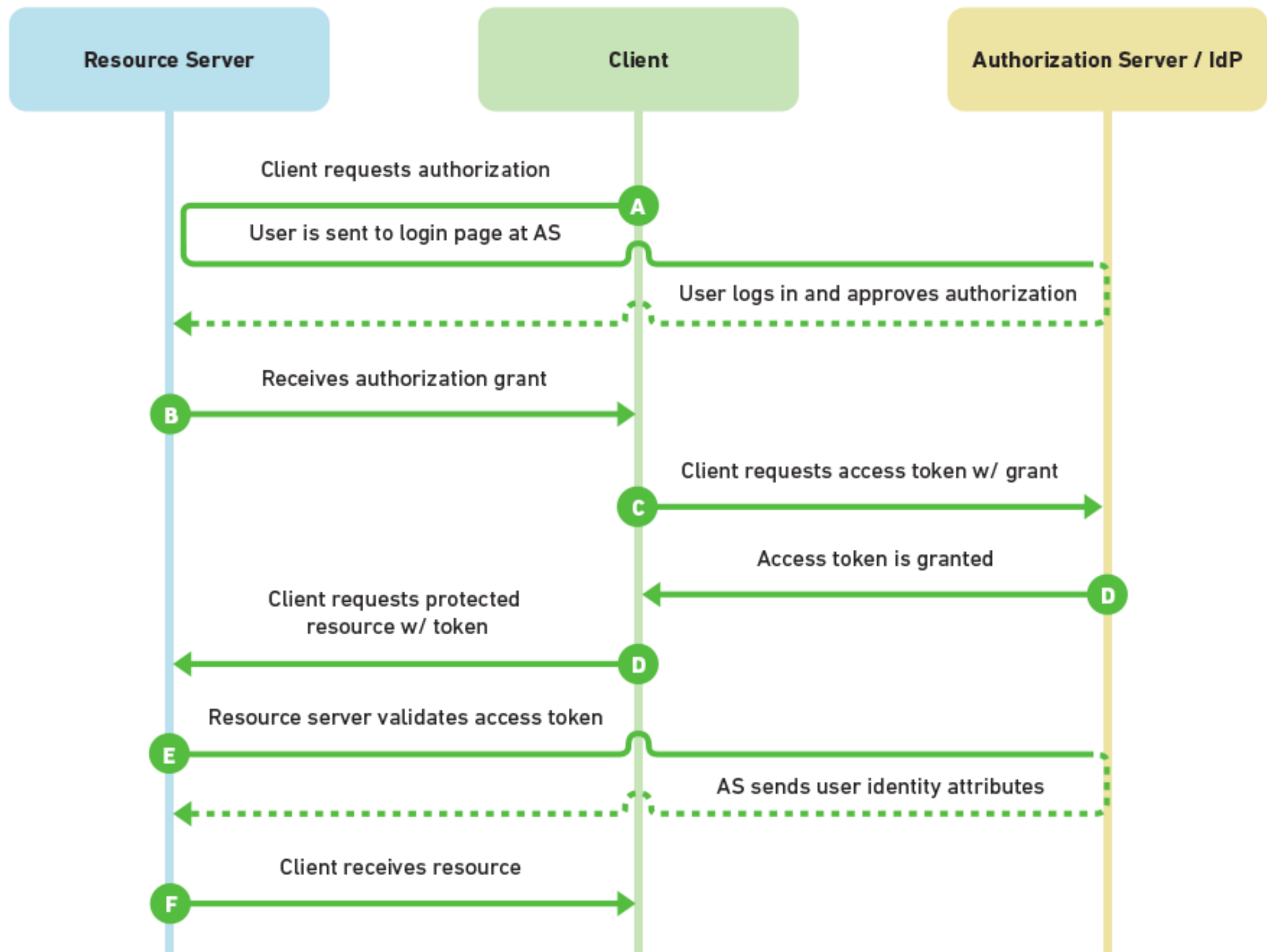
# Single-Sign-On (SSO)

- **Pubcookie** (a.k.a webiso) 1998
- **OpenID** 2005
- **SAML** (Security Assertion Markup Language) 2005
- **OAuth** 2010
- **Mozilla Persona** 2011

among others ...



# OAuth 2.0 Flow



source: [Choosing an SSO Strategy: SAML vs OAuth2](#)