

# Implementing Cookie Authentication for Apollo Server and Client

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# Overview



## Cookies

- Session state
- Trade-offs

## Authentication

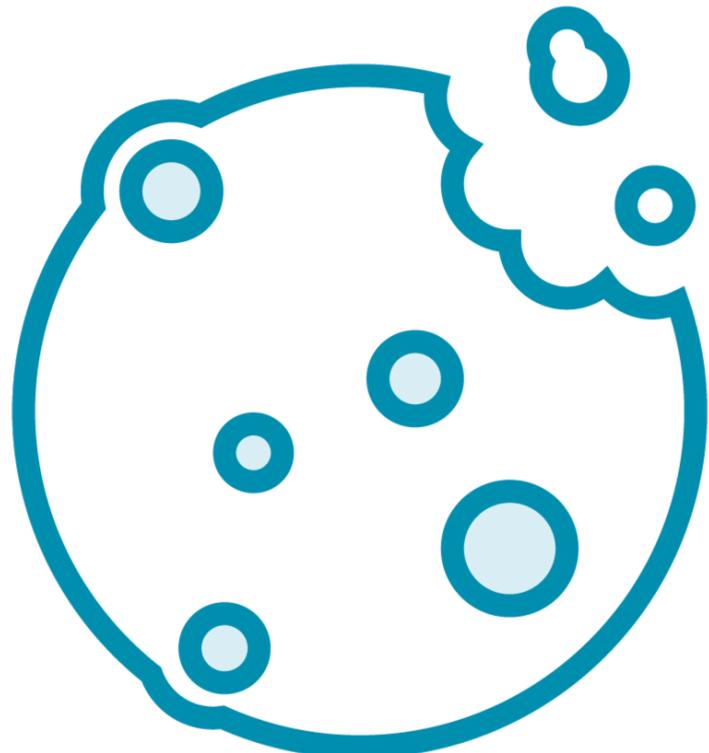
- Storing, retrieving, and removing cookies
- Server with Express

## User Identity

- Favorite sessions for a user



# Cookie Basics



**Communicate data between server and client**

**Do not need to be set manually**

**Server is in control when adding, updating, or removing**



# Uses and Trade-offs

Cookies	Headers
Can be stateful	Stateless
Browser only	Browser and server communication
Automatically persisted in the browser and across page refreshes	Manually persisted for future requests and across page refreshes
Automatically attached to requests	Manually attached to requests
Unauthenticated when cookie is cleared by the server	Unauthenticated when header is removed
Vulnerable to CSRF	Vulnerable to XSS



# Implementing Cookies on the Server

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# Implementing Cookies on the Client

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# Handling Refresh and User Sign-out

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# Using Identity to Save Favorite Sessions

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# Summary



## Complete user account experience

- Secure using cookies
- Refresh handling and sign-out

## Saving and showing favorite sessions

Next: Authorization with Roles and Permissions

