

Authentication & Authorization



Authentication

WHO ARE YOU

Basic Authentication

- ▶ Basic username and password authentication
- ▶ Uses HTTP Headers and base64 encoding
 - ▶ Authorization: Basic username:password
 - ▶ Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
- ▶ Make sure you use HTTPS and not HTTP
- ▶ BAD: Sends in the clear

Digest Authentication

- ▶ Same as Basic Authentication
- ▶ BUT
- ▶ Encrypts the header using a server-supplied value

Token Authentication

- ▶ Uses a generated token instead of a username and password
 - ▶ You generate the token server side, usually when the user is created
- ▶ Uses HTTP Headers and base64 encoding
 - ▶ Authorization: Token somegeneratedtoken
- ▶ Make sure you use HTTPS and not HTTP

Session Authentication

- ▶ Uses whatever session storage mechanism you have
- ▶ In Django, I believe this is cookies
- ▶ Great for standard website requests
- ▶ Good for AJAX requests from within your own site
- ▶ Less good for other API clients

Other Types

- ▶ Oauth and OAuth2
- ▶ Two-Factor
 - ▶ Combine with other forms

Implementations

Tastypie

- ▶ BasicAuthentication
- ▶ DigestAuthentication
- ▶ ApiKeyAuthentication
- ▶ SessionAuthentication
- ▶ [Link: Tastypie Authentications](#)

Django Rest Framework

- ▶ BasicAuthentication
- ▶ DigestAuthentication
- ▶ TokenAuthentication
- ▶ SessionAuthentication
- ▶ [Link: DRF Authentications](#)



Authorization

ARE YOU ALLOWED TO DO THAT

Types

- ▶ Up to you to decide
- ▶ Think through your use cases and BE CAREFUL