TOKEN AUTHENTICATION

MOTIVATIONS

We need to authenticate a lot of different users !

Our system is based on webapps presenting RESTful interfaces.

The protocol OAuth2 looks very appropriate.

Login with:

However the learning curve is not short ☹

JSON WEB TOKEN AUTHENTICATION

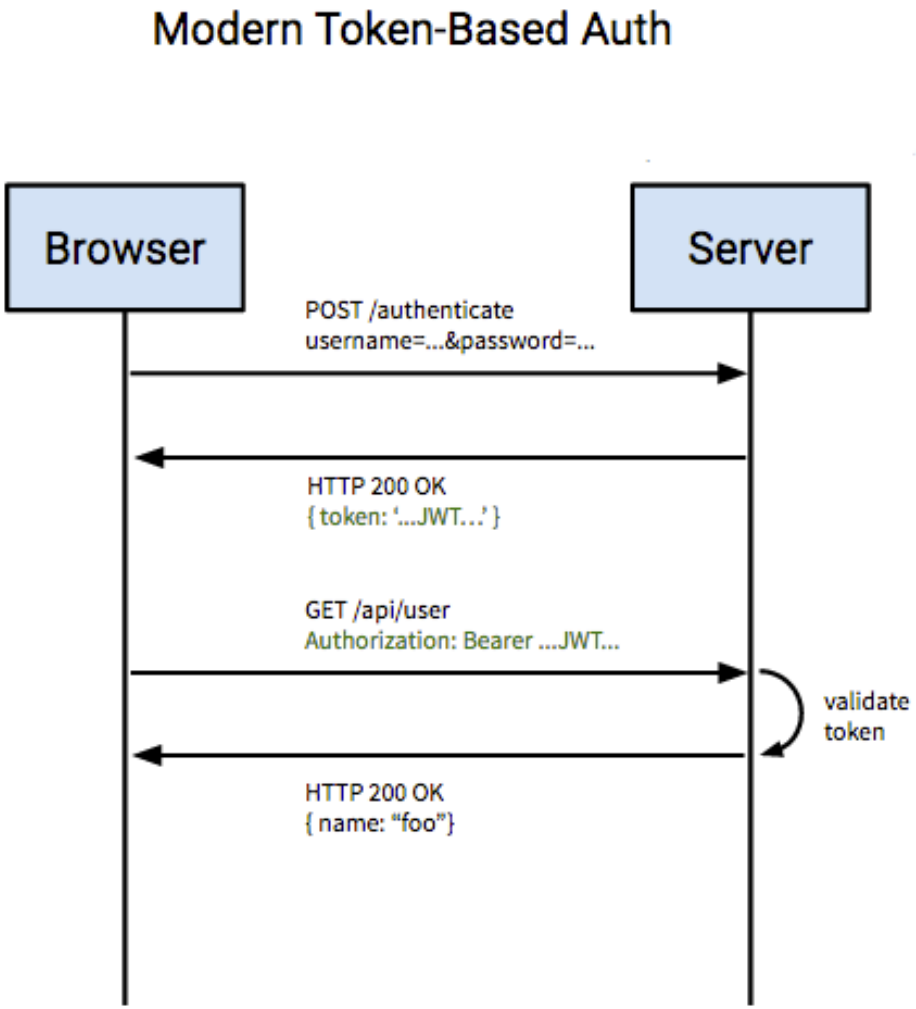
Instead I started progressively with token authentication :

First : send a basic authentication header.

`Basic user:password`

Get back a token from the server.

Use it in the next requests.



A JSON WEB TOKEN

3 parts : **hhhhh.pppppppppppppppppp.sssssss**

Header :

```
{ "typ": "JWT", "alg": "HS256" }
```

Payload:

```
{ "iss": "svom.org", "exp": 1300819380, "name":
“JP Le Fèvre", "admin": true }
```

Signature:

```
var c = Base64(header) + ‘.’ + Base64(payload)
var s = HMACSHA256(c, ‘mot2passe');
var jwt = c + ‘.’ + s
```

THE VOUCHER DEMO

- Written in **`java`**
- Based on: `https://github.com/jwtk/jjwt`
- Build with **`gradle`**

However a couple of issues needs to be tackled:

- Crypto algorithms to choose
- CORS (*cross-origin resource sharing*),
- CSRF (*cross-site request forgery*)

Done !