**How does Symfony authentication work ?**

**First of all : The Security Component**

The Security component provides a complete security system for your web application. It ships with facilities for authenticating using HTTP basic authentication, interactive form login or X.509 certificate login, but also allows you to implement your own authentication strategies. Furthermore, the component provides ways to authorize authenticated users based on their roles, and it contains an advanced ACL system.

Source : <https://symfony.com/doc/3.4/components/security.html>

In our case, the application was a MVP (Minimum Viable Product), some of functionnalities were light, but the authentication system was in symfony standards and well configured.

**Let's see what we had**

The security system is configured in app/config/security.yml. This is the security.yml file before changes.

security:  
    encoders:  
        AppBundle\Entity\User**:**bcrypt  
  
    providers:  
        doctrine:  
            entity:  
                class**:**AppBundle:User  
                property**:**username  
  
    firewalls:  
        dev:  
            pattern**:**^/(\_(profiler|wdt)|css|images|js)/  
            security**:**false  
  
        main:  
            anonymous**:**~  
            pattern**:**^/  
            form\_login:  
                login\_path**:**login  
                check\_path**:**login\_check  
                always\_use\_default\_target\_path**:**true  
                default\_target\_path**:**/  
            logout**:**~  
  
    access\_control:  
        - { path**:**^/login, roles**:**IS\_AUTHENTICATED\_ANONYMOUSLY }  
        - { path**:**^/users, roles**:**IS\_AUTHENTICATED\_ANONYMOUSLY }  
        - { path**:**^/, roles**:**ROLE\_USER }

With this file, you can configure whatever you like for security in all your application, password encoders, user provider, firewalls, url access control, roles …

**What do we have here?**

security:

**What we’re talking about, the security component**

    encoders:  
        AppBundle\Entity\User**:**bcrypt

**Here, you can choose the encoder you want for users passwords, for example, bcrypt, sha12 or if you want none of it you can also choose plaintext.**

    providers:  
        doctrine:  
            entity:  
                class**:**AppBundle:User  
                property**:**username

**Here, you can choose the encoder you want for users passwords, for example, bcrypt, sha12 or if you want none of it you can also choose plaintext.**

    firewalls:

**This is the big part of the security configuration. This is where you will configure access to urls**