

# Next-auth

Permet de gérer l'authentification sur une application nextJS en utilisant différent Provider. A l'avantage d'utiliser la session nextJS.

## Installation

```
npm install next-auth@beta @types/next-auth
```

## Configuration

```
import NextAuth from "next-auth";
import CredentialsProvider from "next-auth/providers/credentials";
import HttpService from "@services/HttpService";
import API_URLS from "@constants/ApiUrls";
import { decodeJwt } from "jose";

interface AuthToken {
  accessToken: string;
  refreshToken: string;
  user: any;
}

async function refreshAccessToken(token: AuthToken) {
  try {
    const refreshedToken = await HttpService.post(API_URLS.refreshToken, {
      refreshToken: token.refreshToken,
    });

    if (!refreshedToken || !refreshedToken.accessToken) {
      throw new Error("Refresh token failed");
    }

    return {
      ...token,
      accessToken: refreshedToken.accessToken,
      accessTokenExpires: Date.now() + refreshedToken.expiresIn * 1000,
      refreshToken: refreshedToken.refreshToken ?? token.refreshToken,
    };
  } catch (error) {
    console.error("Erreur lors du rafraîchissement du token", error);
    return { ...token, error: "RefreshAccessTokenError" };
  }
}

// @ts-ignore
export const authConfig = {
```

```
pages: {
  signIn: '/login',
  signOut: "/logout",
},
providers: [
  CredentialsProvider({
    id: "credentials",
    name: "Credentials",
    credentials: {
      username: { label: "Login", type: "text" },
      password: { label: "Password", type: "password" },
    },
    async authorize(credentials) {
      const resp = await HttpService.post(API_URLS.authLogin, {
        username: credentials.username,
        password: credentials.password,
      });

      if (resp.ok) {
        throw new Error("Invalid credentials");
      }
      const token=resp.data;
      const user = decodeJwt(token.accessToken);

      return {
        id: user.sub,
        name: user.name,
        email: user.email,
        role: user.role,
        accessToken: token.accessToken,
        //refreshToken: token.refreshToken,
        accessTokenExpires: Date.now() + token.expiresIn * 1000,
      };
    },
  }),
],
callbacks: {
  async jwt({ token, user }) {
    if (user) {
      return {
        accessToken: user.accessToken,
        //refreshToken: user.refreshToken,
        accessTokenExpires: Date.now() + 1000 * 60 * 60, // 1h
        user: {
          id: user.id,
          name: user.name,
          email: user.email,
          role: user.role
        },
      };
    }

    if (Date.now() < token.accessTokenExpires) {
      return token;
    }
  }
}
```

```
        return refreshAccessToken(token);
    },
    async session({ session, token }) {
        console.log("session in session method", session);
        console.log("token in session method", token);
        return {
            ...session,
            user: {
                ...session.user,
                id: token.user.id,
                name: token.user.name,
                email: token.user.email,
                accessToken: token.accessToken,
                //refreshToken: token.refreshToken,
            },
        };
    },
},
session: {
    strategy: 'jwt',
},
secret: process.env.NEXTAUTH_SECRET as string,
} satisfies NextAuthConfig;

//@ts-ignore
export const {handlers, auth, signIn, signOut} = NextAuth(authConfig);
```

## Route api

Toutes les requêtes NextAuth passeront par cette route : `src/app/api/auth/[...nextauth]/route.tsx`

```
import {handlers} from "@/auth";
export const {GET, POST} = handlers;
```

## Lib

Fichier utilitaire pour simplifier connexion et déconnexion dans `src/lib/actions.ts`:

```
'use server';
import {signIn, signOut} from "@/auth";

interface LoginFormValues {
    username: string;
    password: string;
    rememberMe?: boolean;
};

export const submitLogin = async (formData: LoginFormValues): Promise<any> => {
```

```
    await signIn('credentials', {...formData, redirectTo: '/', redirect: true});
  };

export const submitLogout = async () => {
  await signOut({redirect: true, redirectTo: '/logout'});
};
```

## LoginForm

Exemple de composant pour le login :

```
'use client';
import {Button, Checkbox, Form, Input} from "antd";
import {submitLogin} from "@/lib/actions";

export default function SignInComponent(){
  const onFinish = async (values: any) => {
    await submitLogin(values);
  };

  const onFinishFailed = (errorInfo: any) => {
    console.log('Failed:', errorInfo);
  };
  return
  <div>
    <Form
      name="basic"
      labelCol={{ span: 8 }}
      wrapperCol={{ span: 16 }}
      style={{ maxWidth: 600 }}
      initialValues={{ remember: true }}
      onFinish={onFinish}
      onFinishFailed={onFinishFailed}
      autoComplete="off"
    >
      <Form.Item
        label="Username"
        name="username"
        rules={[{ required: true, message: 'Please input your username!'
      ]}]
      >
        <Input />
      </Form.Item>

      <Form.Item
        label="Password"
        name="password"
        rules={[{ required: true, message: 'Please input your password!'
      ]}]
      >
        <Input.Password />
      </Form.Item>
    </div>
```

```
    <Form.Item name="remember" valuePropName="checked" label={null}>
      <Checkbox>Remember me</Checkbox>
    </Form.Item>

    <Form.Item label={null}>
      <Button type="primary" htmlType="submit">
        Submit
      </Button>
    </Form.Item>
  </Form>
</div>
}
```

## Configuration

Dans le fichier `.env` ou `.env.local`, définir la variable `NEXTAUTH_URL`:

```
NEXTAUTH_URL=http://127.0.0.1:3000
```

Génération du secret pour encodage/décodage JWT :

```
npx auth secret
```

Le **secret** est généré et inséré dans le fichier `.env.local`.

## Usage

Accès à la session `nextAuth` :

### Côté serveur

```
import {auth} from "@/auth";

const session= await auth();
console.log(session.user); //user connecté
```

### Côté client

```
'use client';
import {useSession} from "next-auth/react";
```

```
const userData=useSession();  
console.log(userData.data?.user); //user connecté
```

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