

Keycloak - Angular Guide

- * Step 1. Create an angular application with routing enabled.
Install required packages using this command -

- npm install keycloak-angular keycloak-js

- * Step 2 - Create an angular component named 'home'

- * Step 3. Create a folder named 'utility' inside your 'app' folder and a file named 'app.init.ts' inside 'utility' folder, and paste this code -

```
import { KeycloakAngularModule, KeycloakService } from 'keycloak-angular';

export function initializeKeycloak(keycloak: KeycloakService) : () => Promise<boolean> {
  return () =>
    keycloak.init({
      config: {
        url: 'http://localhost:8080/auth',
        realm: 'Test',
        clientId: 'angular-client',
      },
      loadUserProfileAtStartUp: true,
      initOptions: {
        onLoad: 'login-required',
        checkLoginIframe: true,
        checkLoginIframeInterval: 25,
        silentCheckSsoRedirectUri:
          window.location.origin + '/assets/silent-check-sso.html',
      },
    });
}
```

* Step 4. Create a 'config.service.ts' file in 'app' folder and paste this code -

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';

@Injectable({
  providedIn: 'root'
})
export class ConfigService {
  constructor(private http: HttpClient){

  }

  get(): void {
    this.http.get("https://mockbin.org/bin/bbe7f656-12d6-4877-9fa8-5cd61f9522a9/view")
    .subscribe(x => {
      console.log('success', x)
    }, e => {
      console.log('error', e)
    })
  }
}
```

* Step 5. Make changes in 'app.module.ts' according to this -

```
import { APP_INITIALIZER, NgModule } from '@angular/core';
import { KeycloakAngularModule, KeycloakService } from 'keycloak-angular';
import { initializeKeycloak } from '../app/utility/app.init'
import { HttpClientModule } from '@angular/common/http';

imports: [
  ...
  HttpClientModule,
  KeycloakAngularModule,
  ...
]
```

```

providers: [
  {
    provide: APP_INITIALIZER,
    useFactory: initializeKeycloak,
    multi: true,
    deps: [KeycloakService],
  },
],

```

* Step 6. Paste this code in 'app.component.ts' -

```

import { Component } from '@angular/core';
import { ConfigService } from './config.service'
import { KeycloakAngularModule, KeycloakService } from 'keycloak-angular';

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css'],
  providers: [ConfigService]
})
export class AppComponent {
  title = 'test';

  constructor(private service: ConfigService, private keycloakService: KeycloakService) {

  }

  callGet(): void {
    console.log('called get')
    this.service.get();
  }
}

```

* Step 7. Create a file named 'silent-check-sso.html' inside 'assets' folder and paste this code -

```
<html>
  <body>
    <script>
      parent.postMessage(location.href, location.origin);
    </script>
  </body>
</html>
```

* Step 8. Paste this code in 'app-routing.module.ts' -

```
import { NgModule } from '@angular/core';
import { HomeComponent } from './home/home.component';
import { RouterModule, Routes } from '@angular/router';

const routes: Routes = [
  { path: '', component: HomeComponent },
];

@NgModule({
  imports: [RouterModule.forRoot(routes)],
  exports: [RouterModule]
})
export class AppRoutingModule { }
```

* Step 9. Paste this code in 'home.component.html' -

```
<button (click)="logout()">Logout</button>
```

<h1>Hello world</h1>

* Step 10. Paste this code in 'home.component.ts' -

```
import { Component, OnInit } from '@angular/core';
import { KeycloakAngularModule, KeycloakService } from 'keycloak-angular';

@Component({
  selector: 'app-home',
  templateUrl: './home.component.html',
  styleUrls: ['./home.component.css']
})
export class HomeComponent implements OnInit {

  constructor(private keycloakService: KeycloakService) {}

  ngOnInit(): void {
  }

  logout() {
    this.keycloakService.logout()
  }

}
```

Note : Download Keycloak though this URL :

<https://downloads.jboss.org/keycloak/<version>/keycloak-<version>.zip>

Suggested Version : 11.0.2