Initializing Core Kit SFA Android SDK

Once you have installed the Web3Auth SDK, the next crucial step is to initialize it. This step requires passing various parameters that align with your project preferences. It's important to note that the initialization process is critical to the successful use of Web3Auth.

Create Web3Auth Instanceâ

In your activity, create a Single Factor Auth instance with single Factor Auth Args.

singleFactorAuth

SingleFactorAuth (singleFactorAuthArgs)

Arguments â

singleFactorAuthArgs

â

The SingleFactorAuth Constructor takessingleFactorAuthArgs as input.

- Table
- Function Defination

Parameter Description network The Web3auth network to be used by the SDK. Supported values areTorusNetwork.MAINNET ,TorusNetwork.TESTNET ,TorusNetwork.CYAN ,TorusNetwork.AQUA public

```
enum TorusNetwork { MAINNET ("mainnet"), TESTNET ("testnet"), CYAN ("cyan"), AQUA ("aqua"), private
final String val;

TorusNetwork (String s)
{ this . val = s;}
public String toString ()
{ return
val;}}
public
SingleFactorAuthArgs (TorusNetwork network)
{ this . network = network;}
```

Instanceâ

singleFactorAuthArgs

```
SingleFactorAuthArgs ( TorusNetwork . TESTNET ) singleFactorAuth = SingleFactorAuth ( singleFactorAuthArgs )
```

Example<u>â</u>

```
class MainActivity :
AppCompatActivity ( )
{ // ... private
```

```
lateinit

var singleFactorAuth : SingleFactorAuth private

lateinit

var singleFactorAuthArgs : SingleFactorAuthArgs private

lateinit

var loginParams : LoginParams private

var torusKey : TorusKey ?

=

null

override

fun

onCreate ( savedInstanceState : Bundle ? )

{ super . onCreate ( savedInstanceState ) setContentView ( R . layout . activity_main )
```

singleFactorAuthArgs

```
SingleFactorAuthArgs ( TorusNetwork . TESTNET ) singleFactorAuth =
SingleFactorAuth (singleFactorAuthArgs)
// Setup UI and event handlers val signInButton = findViewById < Button
     (R.id.signIn) signInButton.setOnClickListener
{
signIn()
}}
private
fun
signIn()
{ loginParams =
LoginParams ("web3auth-firebase-examples",
"sub",
"id_token" ) try
{ torusKey = singleFactorAuth . getKey ( loginParams ) . get ( ) }
catch
( e : ExecutionException )
{ e . printStackTrace ( ) }
catch
( e : InterruptedException )
{ e . printStackTrace ( ) } println ( """Private Key: { torusKey !! . privateKey . toString ( 16 ) } """ . trimIndent ( ) ) println (
"""Public Address: { torusKey !! . publicAddress } """ . trimIndent ( ) ) } //... } Edit this page Previous Install Next
Authentication
```